

CURRICULUM VITAE

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Date and Place
of Birth: December 8, 1950, Lawrence, Mass.

Education:

1969	Phillips Academy, Andover
1973	A. B. Harvard University <i>summa cum laude</i>
1977	M.D. Harvard Medical School

Postdoctoral Training:

Internships and Residencies:

1977 – 1978	Intern in Medicine and Surgery Tufts-Newton Wellesley Hospital
1978 – 1981	Resident in Ophthalmology Massachusetts Eye & Ear Infirmary

Licensure and Certification:

1978	National Board of Medical Examiners
1981	Massachusetts License Registration No. 47348
1982	Diplomate, American Board of Ophthalmology
2004	California Medical License No G87325

Academic Appointments:

1981 – 1984	Clinical Assistant in Ophthalmology Harvard Medical School
1983 – 1985	Visiting Scientist, George R. Harrison Spectroscopy Lab, Massachusetts Institute of Technology
1984 – 1986	Clinical Instructor in Ophthalmology, Harvard Medical School
1987 – 2001	Assistant Clinical Professor in Ophthalmology Harvard Medical School
2001 – 2004	Associate Clinical Professor Harvard Medical School
2004 –	Professor of Ophthalmology University of California, Irvine
2004 –	Vice Chair of Clinical Ophthalmology University of California, Irvine

2005 – Professor of Biomedical Engineering, University of California, Irvine

Hospital Appointments:

1981 – 1983 Assistant in Ophthalmology, Associate Staff, Massachusetts Eye and Ear Infirmary
1983 – 1984 Assistant in Ophthalmology, Active Staff Massachusetts Eye and Ear Infirmary
1985 – 1986 Assistant Surgeon in Ophthalmology, Massachusetts Eye and Ear Infirmary
1987 – 1998 Associate Surgeon in Ophthalmology Massachusetts Eye and Ear Infirmary
1998 – 2004 Surgeon in Ophthalmology Massachusetts Eye and Ear Infirmary
1988 - 1990 President, Eye Staff Massachusetts Eye and Ear Infirmary
1989 - 1990 President, Medical Staff Massachusetts Eye and Ear Infirmary
1989 – 1991 Director, Cornea Consultation Service Massachusetts Eye and Ear Infirmary
1991 – 2004 Surgeon in Ophthalmology Boston Eye Surgery & Laser Center
1992 – 2004 Associate Staff in Ophthalmology New England Medical Center
1996 – 1998 Clinical Associate in Surgery Mass. General Hospital
2000 – 2004 Affiliate Surgeon, Surgical Service, Mass. General Hospital
2004 – Director of Cataract, Refractive, and Corneal Surgery, University of California, Irvine, Medical Center
2004 - Medical Staff, University of California Irvine Medical Center

Memberships and Offices in Professional Societies:

1975 – 1977 Boston Medical Society, Harvard Medical School
1981 – Association for Research in Vision and Ophthalmology
1981 – 2004 Massachusetts Society of Eye Physicians and Surgeons
1982 – Fellow, American Academy of Ophthalmology
1983 – 2004 New England Ophthalmology Society
1983 – American Society of Cataract and Refractive Surgery
1985 – Cornea (formerly Castroviejo) Society, Full Member
1986 – American Eye Study Club
1990 – 1992 Scientific Advisory Board, American Society of Cataract and Refractive Surgery
1990 – 1992 Board of Directors, International Society of Refractive Keratoplasty
1991 – 1993 Vice President, Massachusetts Society of Eye Physicians & Surgeons
1997 – American Ophthalmological Society

- 2000 – Executive Committee, American Society of Cataract & Refractive Surgery
- 2000 – 2001 Secretary, American Society of Cataract & Refractive Surgery
- 2002 – 2003 Chief Financial Officer, American Society of Cataract and Refractive Surgery
- 2003 – 2005 Annual Meeting Program Co-Chair, American Society of Cataract and Refractive Surgery
- 2004 – 2005 President-Elect, American Society of Cataract and Refractive Surgery
- 2005 – 2006 President, American Society of Cataract and Refractive Surgery
- 2005 – Annual Meeting Chair, American Society of Cataract and Refractive Surgery
- 2005 Orange County Ophthalmological Society
- 2006 – 2007 Immediate Past President, American Society of Cataract and Refractive Surgery
- 2007 – Member, Orange County Medical Association

Major Committee Assignments:

National and Regional:

- 1985 Massachusetts Chairman, Fund Raising for National Eye Care Project, American Academy of Ophthalmology
- 1985 – 1994 Program Co-Chairman, Massachusetts Eye and Ear Alumni Association
- 1986 – 1992 Committee on Video Education (COVE), American Academy of Ophthalmology
- 1987 – Associate Examiner, American Board of Ophthalmology
- 1993 – 1997 Basic and Clinical Science Course Committee, Section on Optics, American Academy of Ophthalmology
- 1994 – 1998 American Academy of Ophthalmology Committee for Ophthalmic Technology Development
- 1994 – 1999 Refractive Surgery Interest Group of the American Academy of Ophthalmology
- 1999 – 2000 Refractive Surgery Interest Group, American Society of Cataract and Refractive Surgery
- 1999 – 2000 American Academy of Ophthalmology, Committee on Preferred Practice Pattern – Cataract/ Anterior Segment Panel
- 2001 – 2003 Basic and Clinical Science Course Sec. 13, Member Subcommittee, American Academy of Ophthalmology
- 2002 – 2005 Founding Chair, Eye Surgery Education Council
- 2004 – Basic and Clinical Science Course Sec. 13, Member Subcommittee, American Academy of Ophthalmology

2005 – 2006 Preferred Practice Pattern Panel Member on Cataract Surgery, American Academy of Ophthalmology

Hospital:

Massachusetts Eye and Ear Infirmary:

1983 – 1985 Laser Center Committee
1986 – 1990 Joint Operating Room Committee
1987 – 1990 Elected member, Eye Service Executive Committee
1988 – 1991 Member, Medical Board
1988 – 1990 Eye Staff Representative, Board of Managers

University of California Irvine:

2004 – Executive Committee, Department of Ophthalmology
2004 – Eye Institute Steering Committee, Department of Ophthalmology
2004 – Eye Institute Planning Committee, Department of Ophthalmology
2005 – 2006 Operating Room Value Analysis Committee, UCIMC
2005 – Operating Room Committee, UCIMC
2005 – Residency Selection Committee, Department of Ophthalmology
2005 – 2007 Ophthalmology Department Representative, Academic Senate

Principal Clinical and Hospital Service Responsibilities:

Massachusetts Eye & Ear Infirmary
1989 – 1991 Director, Cornea Consultation Service

University of California Irvine Medical Center:
2004 – Director of Cataract, Refractive, and Corneal Surgery
2004 – Vice Chair of Clinical Ophthalmology

Editorial Boards:

1984 – *Journal of Cataract and Refractive Surgery*
1994 – *Ophthalmology*
1995 – *Ophthalmic Surgery and Lasers*
2001 – *Journal of Refractive Surgery*
2007-- Associate Editor, *Ophthalmology*

Visiting Professorships:

6/12/86 Yale University, New Haven, CT
4/11/90 Wills Eye Hospital, Philadelphia, PA
1/10/91 Eye and Ear Institute, Pittsburgh, PA
6/4/91 University of California, San Diego
3/1/91 Doheny Eye Institute, University of Southern California. Los Angeles, CA
2/5/92 W. K. Kellogg Eye Center, University of Michigan, Ann Arbor, MI

10/1-2/92 University of Toronto
 12/3-4/93 University of North Carolina,
 Chapel Hill, NC
 11/16/94 Georgetown University,
 Washington, DC
 2/11/04 Wills Eye Hospital and Thomas Jefferson School of
 Medicine, Philadelphia, PA.
 12/2/04 University of California, San Francisco
 9/11-12/07 Harvard/Massachusetts Eye and Ear Infirmary

Named Lectureships:

12/4/93 S. Dace McPherson, Sr. Memorial Lecture. University
 of North Carolina - Chapel Hill, NC. "Current Status
 and Future Trends of Excimer Laser Photorefractive
 Keratectomy."
 1/30/98 Jean Lacerte Lecture, Universite Laval, Quebec City,
 Canada.
 6/98 Charles Burnham, MD Lecturer, Carraway Methodist
 Medical Center, Birmingham, AL. Lecture on
 "Refractive Surgery Today and Tomorrow".
 5/29/98 Grace and William S. Snyder Lecture. Vanderbilt
 University School of Medicine. Nashville, TN.
 Lecture on "Current Results and Future Directions of
 Refractive Surgery".
 2/11/99 XXXII Annual Everett L. Goar Memorial Lecture.
 Houston Ophthalmological Society, Houston, TX.
 Lecture on "Excimer Laser and Cataract/IOL Update."
 3/3/00 15th Annual Richard E. Hoover Lecturer. Greater
 Baltimore Medical Center. Lecture on "Multifocal
 Intraocular Lenses in Cataract and Refractive
 Surgery."
 5/1/04 Binkhorst Lecture, American Society of Cataract and
 Refractive surgery, San Diego CA. "The Pursuit of
 Perfect Vision: Ophthalmology's Holy Grail?"
 4/19/05 Richard L. Lindstrom, M.D. Lecture, Contact Lens
 Association of Ophthalmologists Symposium in the
 ASCRS Congress, Washington, D.C. "Wavefront-
 Guided Therapeutic PRK and LASIK: Potential and
 Challenges."
 2/24/07 David Paton Medal Lectureship, Baylor College of
 Medicine, 22nd Annual Cullen Course, Cullen Eye

- Institute, Houston TX. "Femtosecond Laser Corneal Transplantation."
- 9/12/07 Edward Murphy MD and Leo T. Chylack MD Inaugural Annual Lecture, Harvard/Massachusetts Eye and Ear Infirmary, Boston MA. "Presbyopia IOLs: Promise, Peril, and Problem Solving."
- 9/26/08 13th Annual Irving H. Leopold Lecture, Department of Ophthalmology of The Mount Sinai School of Medicine, New York, NY. "Corneal Transplantation is Refractive Surgery (at last!)"
- 10/08 Barraquer Lecture, American Academy of Ophthalmology/International Society of Refractive Surgery: "Corneal Transplantation is Refractive Surgery."

Awards and Honors:

- 1970 Phi Beta Kappa (Junior Year)
- 1973 A. B. Awarded Summa cum Laude
- 1977 Alpha Omega Alpha
- 1988 Honor Award, American Academy of Ophthalmology
- 5/14/94 "Man of Vision Award", Massachusetts Chapter, National Society to Prevent Blindness.
- 1998 Senior Honor Award, American Academy of Ophthalmology
- 1998 Film Festival, American Society of Cataract and Refractive Surgery, 1998. "Closed Chamber Iris Reconstruction", Winner of Oscar Award (Runner-up) for video in Anterior Segment Surgery.
- 1999 Film Festival, American Society of Cataract and Refractive Surgery, April 9-13, 1999, Seattle, WA. "Haloes are for Angels, not IOLs: Reducing Halo and Glare with Multifocal IOLs." ("Oscar" Award Winner for runner-up video in Intraocular Lens category)
- 2000 Film Festival, American Society of Cataract and Refractive Surgery, May 19-24, 2000, Boston, MA. "A Sleek Surface after LASIK: Maintaining the Epithelial Integrity". Producer: Roger F. Steinert, MD; Co-Producers Ann Chang-Godinich, MD, Gwynn Horsburgh, OD, and April White, COT ("Oscar" Award Winner for best video in Refractive Surgery category)
- 2001 American Board of Ophthalmology Recognition Award
- 2001 Film Festival, American Society of Cataract and Refractive Surgery April 30, 2001 "Soaking, Stretching, and Stamping Out Striae". Producer: Roger F. Steinert, MD. Co-Producers: Anil Swami, MD and April White, COT Winner of First Prize "Oscar" Award in category of Refractive Surgery
- 2003 ASCRS Grand Prize Award "Oscar" for instructional videotape "Dr. Zernicke's View of the World". Second

	Place Award, Category of "New Technology" at European Society of Cataract and Refractive Surgery
2003	Telly Award for "Dr. Zernicke's View of the World".
2003	American Academy of Ophthalmology, Secretariat Award from the Ophthalmology Editor for "special and distinct contributions to the Academy and to the profession of Ophthalmology."
2006	American Academy of Ophthalmology, Certificate of Appreciation, Member, BCSC Sec. 13 2002-2006
2006	American Academy of Ophthalmology, Certificate of Appreciation, Member, PPP-Cataract/Anterior Segment Panel, 2005-2006
2007	American Society of Cataract and Refractive Surgery Annual Film Festival. First runner-up "Oscar" Award for video "Femtosecond Laser Corneal Transplantation."
2007	European Society of Cataract and Refractive Surgery. First place award for video "Femtosecond Laser Corneal Transplantation."
2007	American Board of Ophthalmology, Certificate of Appreciation
2008-2009	Academic Senate at UC Irvine, Distinguished Faculty Award for Teaching

Professional Recognition

Marquis Who's Who in the World

Marquis Who's Who in America

Marquis Who's Who in Science and Engineering

America's Top Doctors, 2001-current

Best Doctors in America, 1994-current

Orange County's Physicians of Excellence, 2005

Physicians of Excellence, Jan 2006 Orange Coast Magazine

Top 50 Opinion Leaders in 2005, Cataract and Refractive Surgery Today

Top 50 Opinion Leaders in 2006, Cataract and Refractive Surgery Today

Part II: Research, Teaching and Clinical Contributions:

A. Narrative Report of Research, Teaching and Clinical Contributions:

My research, teaching and clinical contributions have concentrated on three areas: 1) cataract surgical technique and management of complications; 2) refractive surgery; and 3) corneal transplantation.

I have helped develop and teach numerous surgical techniques for successful primary microsurgical cataract surgery and management of complications of cataract surgery, particularly management of poorly positioned intraocular lenses, with suture repair techniques of the intraocular lens and the iris, where necessary. In addition, I have organized and led several large prospective randomized

multi-center trials that validated changes in surgical technique and in intraocular lens technology.

Simultaneously, I have pursued my longstanding interests in ophthalmic lasers. Our laboratory group was the second in the world to begin work on excimer laser photoablation in November, 1983.

I continued heavy involvement in this area, as one of the first group of United States ophthalmologists to begin clinical trials of the excimer laser for therapeutic applications in 1987 and for refractive applications in 1989. Ultimately I became the Medical Monitor for the FDA trials of photorefractive keratectomy sponsored by Summit Technology. When FDA approval of the phototherapeutic keratectomy procedure occurred in 1993, and then approval of photorefractive keratectomy occurred in 1995, I was a presenter to the FDA Ophthalmic Devices Panel that led to these milestone approvals. Since that time I have been actively involved in teaching the principles, applications, and complication management of this powerful new procedure. Current research explores the application of wavefront and topographic guided excimer laser treatment of corneas with functionally abnormal optics, such as after cornea transplantation or complicated refractive surgery. A planned project for 2008 is the use of ultrafast lasers in cataract surgery and presbyopia therapy.

In corneal transplantation and related procedures, I have actively investigated corneal inlay and onlay procedures as well as techniques to reduce postoperative astigmatism. Current research includes endothelial transplantation and the use of the femtosecond laser for corneal transplantation incisions, a field in which UC Irvine has been established as the world leader.

In addition to the usual teaching responsibilities of medical students, residents, and fellows, I have established a formal monthly lecture and conference on refractive surgery. Our program is one of only several in the U.S. to offer specific training in this new discipline. In addition, I expanded our cornea fellowship to two fellows and obtained voluntary quality certification of the fellowship from the American University Professors of Ophthalmology (AUPO).

B. Report of Current Research Activities:

1. Applications of femtosecond laser technology for therapeutic anterior and posterior lamellar keratoplasty

2. Shaped penetrating keratoplasty incisions with the femtosecond laser
3. Investigations of materials and techniques for microincision cataract surgery.
4. Use of wavefront technology in therapeutic laser ablations of severely distorted corneas.
5. Pharmacologic modulation of corneal wound healing

C. Report of Teaching:

1. UC Irvine:

Instruction of medical students, residents and fellows at University of California, Irvine, including clinics, grand rounds, and lecture conferences

UCI School of Medicine. Lecture to second year medical students, Topics in Medicine on "The Differential Diagnosis of the Red Eye." April 5, 2005

Lecturer, Photomedicine (Biomedical Engineering Course 130/135), "Lasers in Ophthalmology." March 7, 2006

Lecture, second year medical students, Topics in Medicine, "The Differential Diagnosis of the Red Eye." April 2006

Invited Speaker, UC Irvine The Henry Samueli School of Engineering Symposium. Lecture on "Challenges and Possible Solutions in Therapeutic Laser Treatment of Corneal Diseases." May 15, 2006

UC Irvine Eye Institute Collaboration Colloquium. Moderator of sessions on "Cataract surgery" and "Refractive surgery". Presentation on "Topographic and Wavefront-Guided Therapeutic Excimer Laser Treatments". June 2-3, 2006

Lecturer, Photomedicine (Biomedical Engineering Course 135), "Lasers in Ophthalmology." March 6, 2007

UCI School of Medicine. Lecture to second year medical students, Topics in Medicine on "The Red Eye." March 19, 2007

Lecturer, Photomedicine (Bio Sci D130 / BME 135)

Lasers in Ophthalmology I and II, Nov 27 and 29, 2007

2. Local Invited Teaching Presentations:

1982:

- March 13 Instructor, MEEI Resident Outcome Course
- April 15 Lecture at Boston University Ophthalmic Assistant's Course: "Ophthalmic History"
- April 29 Lecture to Harvard-MIT Health Sciences and Technology Students on Lasers in Ophthalmology
- Sept 16 Lecture at MEEI Staff Conference: "Laser Surgery of the Lens"
- Nov 18 Lecture at MEEI ECCE Course: "Secondary Operations to Clear the Media"
- Nov 20 Lecture to MEEI Residents: "Fungal Keratitis"
- Nov 22 Instructor, Extracapsular Surgery Teaching Lab, MEEI
- Dec 3 Lecture: "Protection of the Retina: Beam Divergence & Plasma Formation", New England YAG Laser Symposium
- Dec 6 Instructor, Extracapsular Surgery Teaching Lab, MEEI
- Dec 10 Lecture, MEEI Cornea Conference "PK and Extracapsular Cataract Extraction"

1983:

- April 20-21 Combined NEOS/MEEI Alumni Meeting
- June MEEI YAG Laser Course
- Oct 26 Harvard Basic Science: Fundamentals of Pulsed lasers

1984:

- March 15 American Optics Society Guest Lecture, Bedford, MA
- May 10 MEEI Cornea Course: Lecture on "Potential Acuity Determination in the Presence of Corneal Opacity"
- Oct 5 Winchester Hospital, Grand Rounds. Lecture: "Medical Uses of Lasers", Winchester, MA
- Dec 7 MEEI Course on Extracapsular Cataract Surgery. Lecture: "Alternative Techniques"

1985:

- February-April 11 Preceptor, Core Clerkship in Ophthalmology, Harvard Lecture on "Controversies in Nd-YAG Lasers" and Course Director, "Nd-YAG Laser", American Intra-Ocular Implant Society Meeting, Boston
- Sept 12 Malden Hospital, Grand Rounds, Malden, MA. Lecture on "Lasers in Medicine"
- Dec 5 Ophthalmic Laser Nursing, MEEI, "Clinical Application of Nd-YAG Laser in Ophthalmology"

1986:

- March 20 Cornea Conference, MEEI "Current Epikeratophakia Results"
- March 21 Boston ECCE/IOL course, Lecture on "Laser Therapeutics of Cataract Surgical Complications"
- April 4 Program Co-chairman, MEEI Alumni Meeting, Boston
- Sept 24 Cataract Conference. MEEI. Lecture on "Management of Subluxation of Posterior Chamber Intraocular Lenses"
- Sept 26 Laboratory Instructor, MEEI Resident Cataract Surgical Course, laboratory and lecture on "Alternative Techniques in"
- Nov 24 Springfield, MA Ophthalmology Seminar

1987:

- April 9 Massachusetts Eye and Ear Infirmary Alumni Association, Annual Meeting. Paper on "Epithelialization after Epikeratoplasty"
- Sept 12 Cornea Research Conference, MEEI. Co-moderator, section on keratorefractive surgery; Paper presented on "Epikeratoplasty for Keratoconus"
- Sept 19-20 Co-director, MEEI. Continuing Education course on clinical laser applications. Lectures on "Advanced applications of the Nd:YAG Laser" and "Excimer laser and other lasers for keratorefractive surgery". Director of laboratory session on the Nd:YAG laser.
- Sept 23 Cataract conference. Residency Education Program. "Basic and alternative techniques for extracapsular cataract extraction". Co-author, poster presentation on: "Clinicopathologic Correlation in Failed Human Epikeratoplasty"
- Nov 22 Lecture on "Epikeratophakia", Children's Hospital, Boston

Dec 6 Lectures on Cataract Surgical Technique, MEEI Course on Extracapsular Cataract Surgery

1988:

March 26 Beth Israel Hospital, Boston. One hour lecture on "Physics and Applications of Nd-YAG laser"

April 14 Annual Meeting, Massachusetts Eye & Ear Infirmary Alumni Association. Paper on "Long-term comparison of epikeratoplasty and penetrating keratoplasty for

April 29 Beth Israel Hospital, Boston. Lecture on "The Nd:YAG Laser: Physical principles and clinical applications".

May 20 MEEI Resident Course in phacoemulsification. Lectures on "Introduction to Phacoinstrumentation" and "Phacoemulsification Techniques and Silicone Intraocular Lenses".

Sept 17-18 Harvard Medical School/Massachusetts Eye & Ear Infirmary, Continuing Education course on laser therapy of ocular disease. Lectures on "Advanced applications of the Nd-YAG laser" and "Excimer and other lasers for refractive surgery".

Nov 2 Grand Rounds, Department of Ophthalmology, Tufts-New England Medical Center. Lecture on "Sutured posterior chamber intraocular lenses for secondary implantation".

1989:

March 18 "Update on Cornea and External Disease", Massachusetts Eye & Ear Infirmary. Lecture on "Persistent stromal infiltrates".

March 20 Harvard Medical School/Beth Israel Hospital Annual Ophthalmology Review Course. Lectures on "Corneal anatomy and physiology", "Corneal surface degenerations", and "Corneal dystrophies".

March 31 Photocoagulation Course, Eye Research Institute. Boston, MA. Lecture on "Excimer laser technology".

Sept 1 Grand Rounds, Beth Israel Hospital, Boston. Presentation on "Surgical Management of monocular aphakia".

Sept 16-17 Co-director of Harvard Medical School, Continuing Education Course on Laser Therapy of Ocular Disease: Current Approaches and Future Technology. Lectures on "Advanced application of the Nd-YAG laser, vitreolysis, anterior capsulotomy, coreoplasty, and IOL removal and repositioning" and "Excimer and other lasers for refractive surgery"; Workshop Director for "Excimer Laser Workshop" and "Nd-YAG laser photodisruption laboratory."

1990:

- April 2 Harvard Medical School/Ophthalmology Review Course. Lectures on "Basic Corneal anatomy and Physiology", "Corneal degenerations" and "Corneal dystrophies."
- June 2-3 Innovations and Controversies in Cataract Surgery: Phacoemulsification and Small Incision IOLs. Course Director. Massachusetts Eye & Ear Infirmary/Harvard Medical School. Boston, MA.
- Sept 22-23 Laser Techniques and Technology Update Course. MEEI/Harvard Continuing Medical Education, Boston, MA. Lectures on "Advanced Applications of the Nd:YAG Laser" and "Therapeutic and Refractive Application of the Excimer Laser." Lab leader on Nd:YAG and excimer lasers.

1991:

- April 6-7 Harvard Medical School, Continuing Medical Education Course on "Lasers in Medicine." Lecture on "Excimer Laser Photorefractive Keratectomy." Laboratory Instructor, Excimer Laser Workshop.
- April 11-12 Course Director, Harvard Medical School Continuing Medical Education Course on "Phacoemulsification and Small Incision Cataract Surgery: Didactic Sessions and Wet Labs." Lectures on "The Transition from ECCE to Phaco", "Small Incision Implants after Phacoemulsification", and "The Divide and Conquer Technique for In-Situ Phacoemulsification."
- April 23 Greater Springfield Ophthalmologic Association, Springfield, MA. Guest lecturer on "Excimer Laser Photorefractive and Phototherapeutic Keratectomy."

1992:

- March 27-28 Course Director. Harvard Medical School Continuing Medical Education. "Two Courses in Phacoemulsification: Transition from ECCE to Phaco with Wet Lab; and Advanced Phaco with Wet Lab." Lectures on "Converting from ECCE to Phaco", "Small Incision Lenses", and "Divide and Conquer Technique."
- May 1-2 Course Co-Director, A System of Precise Predictable Keratorefractive Surgery, New England Medical Center, Boston, MA. Lecture on "Comparative Status of Radial Keratotomy and Excimer Laser Photorefractive Keratectomy."
- May 14-15 Program Co-Chairman, Massachusetts Eye & Ear Infirmary Alumni Association Annual Meeting, Boston, MA. Free paper presentation on "Current Results of Excimer Laser Photorefractive Keratectomy."

- May 26 Invited Lecturer. Photomedicine Lecture Series, Wellman Laboratories of Photomedicine, Massachusetts General Hospital, Boston, MA. Lecture on "Laboratory and Clinical Studies on The Excimer Laser."
- June 3 Guest Lecturer. Surgical Grand Rounds, St. Vincent's Hospital, Worcester, MA. Presentation on "What's New in Ophthalmology?"
- July 25 Advances in Phacoemulsification with Advanced Phaco Tutorial, New England Eye Center, New Seabury, MA. Course Director. Lectures on "Wound construction", "IOL choices for small incisions", and "Refractive cataract surgery."
- Oct 24 New England Eye Center. Course on "Vitreotomy Techniques for the Anterior Segment Surgeon". Lectures on "Positive Pressure and Iris Prolapse" and "Techniques for Management of Vitreous Loss."
- Nov 21 New England Medical Center, Tufts University, Course Director: "Fundamentals in Ophthalmic Microsurgery" course for ophthalmic residents in New England. Principal lecture
- 1993:**
- March 27 New England Eye Center, Boston, MA. Course Instructor, "An Update on Refractive Surgery: Advances in Incisional and Laser Surgery". Lectures on "The System for Incisional Keratotomy", "Nomograms for Primary Radial Keratotomy, Astigmatic Keratotomy and Enhancements", "Sample Problems", "Photorefractive Keratectomy: The Updated Phase III Results", "Keratomileusis combined with Excimer Laser Ablation". Wet Lab Instructor, Workshops on Incisional Keratotomy, Excimer Laser, and Keratomileusis.
- June 5 Program Co-Director Massachusetts Eye & Ear Alumni Association Annual Meeting. Co-author of paper presentation on: "One Year Results of Excimer Laser PRK for Low to Moderate Myopia."
- June 18-19 Course Co-Director. Advanced Techniques in Phacoemulsification. Woburn, MA. Lectures on "Hydrodissection and Hydrodelineation"; "Multifocal IOL";
- Sept 18-19 Course Co-Director: "Refractive Surgery: A Practical Approach". Lectures on "Radial Keratotomy Precision and Predictability", "Corneal Topography and Its Uses in Refractive Surgery" and "Photorefractive Keratectomy: Clinical Results."
- Oct 29 Course Director, "Advancing Your Phacoemulsification Skills", Boston, MA. New England Medical Center. Lectures

on "Phaco Machines: Understanding Their Behavior and New Technology", "Variations in Nuclear Phaco: One versus Two Hands, Bowling, Tilting, Cracking and Chopping", "Hydrodissection/Hydrodelineation Cortical Cleavage", "Current and Future Foldable IOLs and Refractive Cataract Surgery", "Topical Anesthesia", "Broken Capsules, Vitrectomy, and Sutured PC IOLs."

Nov. 10 New England College of Optometry. Clinical Update Meeting, Milford, MA. Lectures on "Post-Cataract Testing and Normal Postoperative Course" and "Recognition of Post-Cataract Complications."

1994:

Feb. 5 Practical Ophthalmology Course, Mass. General Hospital, given at Boston Eye Surgery and Laser Center, Boston, MA. Lecture on "Refractive Surgery Update."

April 8 Course Director, Excimer Laser Practical and Didactic Course, Tufts-New England Medical Center, Boston, MA.

April 27 Massachusetts Society of Optometrists Twentieth Annual Contact Lens Seminar, Marlboro, MA. Lecture on "Refractive Surgery Update."

May 6 Course Director, Advancing Your Phacoemulsification Skills. New England Eye Center. Boston, MA. Lectures on "Phaco Machines: Understanding Their Behavior and New Technology", "Variations in Nuclear Phaco: Bowling, Tilting, Cracking, and Chopping", "Capsulorhexis, Hydrodissection/Hydrodelineation/ Cortical Cleavage", "Current and Future Foldable IOLs", "Topical Anesthesia", and "Broken Capsules, Vitrectomy, and Sutured PC IOLs."

August 4-5 Nantucket Cornea Meeting, Nantucket, MA. Paper presentation on "Results of Excimer Laser PTK and PRK."

1996:

Feb 27 Greater Springfield Ophthalmologic Association Meeting, Deerfield, MA. Presentation on "Innovations in Cataract Surgery: Topical Anesthesia, Clear Corneal Incisions and High Vacuum Phaco Chop".

April 1 Suffolk County Ophthalmologic Society, Commack, NY. Guest Speaker. Lecture on "New Techniques in Phacoemulsification and Cataract Surgical Complication Management", and "Challenging Cases in Cataract Surgery: An International Video Symposium".

Oct 11 Longwood Medical Area Ophthalmology Clinical and Research Conferences. "New Directions in Refractive Surgery".

1997:

- May 4 Ocular Symposium. Boston, MA. Lecture on "Progress in Treatment of Corneal and Refractive Disorders."
- Sept 15 New England College of Optometry. Boston, MA Lecture on "A Contemporary Approach to Cataract Surgery."

1998:

- April 25 Ocular Symposium, Boston, MA. Lecture on "Refractive Surgery: PRK, LASIK and the Future".
- Sept 21 New England College of Optometry. Advanced Care Grand Rounds Lecture Series: "Refractive Surgery: PRK and LASIK".

1999:

- April 24 Ocular Symposium, Boston, MA. "Refractive Surgery: Current Status".

2000:

- Feb 17 Ophthalmology Service, Guest Speaker, Salem Hospital, Salem, MA: "Corneal Burns in Phacoemulsification" and "Obtaining a Sleek Surface after LASIK".

2001:

- May 5 Ocular Symposium. Boston, MA. Lecture on "Presbyopia: Refractive Surgery's Last Frontier".
- May 17 Massachusetts Society of Eye Physicians and Surgeons Annual Meeting, Brookline, MA. Guest lecturer "Presbyopia the Last Frontier of Refractive Surgery".

2002:

- June 6 Harvard Medical School 25th Reunion Class of 1977 symposium. Program Co-Director. Lecture on "Vision Revolution".

2003:

- March 14 New England Ophthalmologic Society, Boston, MA. Moderator of session on "Cornea Subspecialty Session". Includes lecture on "Avoidance and Management of Flap Complications".
- Oct 3-4 Twenty Third Biennial Cornea Research Conference, Schepens Eye Institute, Boston, MA. Paper presentation:

“Therapy of Abnormal Corneal Optics by Wavefront-Guided Excimer Laser Ablation”.

Oct 22 Eyesight 20/20 meeting. Framingham, MA. Lectures on “Understanding Wavefront Technology” and “ Innovations in Non-laser Vision Correction”.

2005:

April 5 Research Associates of UCI. Lecture on “The Aging Eye”

Nov 11 Orange County Senior Center. Lecture on "The Aging Eye"

2006:

May 16 UCI Senior Health: Taking Charge of Your Health Care. Lecture on “Cataract and the Aging Eye”

Sept 29 Allergan Fellows Course, Newport Beach, CA. Lecture on “Femtosecond Laser Corneal Transplantation: From Theory into the Operating Room”

Sept 30 SOURCE Program Director, Newport Beach CA. Lectures and panel discussions on “Presbyopia-Correcting IOLs,” “Aspheric Optics IOLs,” and “Malpositioned IOLs.”

2008:

May 27 Faculty, The Cutting Edge: The Impact of Dry Eye Disease in Ophthalmic Surgery, Postgraduate Institute for Medicine, Los Angeles, CA.

3. Regional, National and International Teaching Contributions:

1982:

April 6 "Laser Surgery of the Lens"-Combined Meeting MEEI Alumni Association and New England Ophthalmological Society, Boston

May 5 "Laser Surgery of the Lens"-Poster at Association for Research in Vision and Ophthalmology, Sarasota, FL

Sept 24 Symposium on the ND-YAG Laser, Ohio State University, Columbus Ohio

Nov 24 Paper: "Laser Surgery of the Lens" International Congress of Ophthalmology, San Francisco. Poster "ND-YAG Laser", American Academy of Ophthalmology, San Francisco

Dec 15 Paper: "YAG Laser and Posterior Capsule" New England Ophthalmologic Society, Boston, MA.

1983:

- February 1 Kelman YAG Laser Course Instructor, New York
- February 14 Course of the Ophthalmic Nd-YAG Laser, Biophysics of the ND-YAG Laser, Kansas City, Missouri
- March 7 American Society of Contemporary Ophthalmology, Ophthalmic Technology Symposium, Bal Harbour, FL
- April 4 Kelman YAG Laser Course Instructor, New York
- April 8 International Ophthalmic Laser Symposium, Washington, D.C.
- May 2-6 ARVO: 1) Studies on Plasma Formation (poster), 2) Laser Iridotomy (poster), 3) Experimental vitreous surgery (paper), Sarasota, FL
- May 26 MIT-HST Symposium on Lasers in Medicine Kratz Course on the Nd-YAG Laser, Newport Beach, California
- August 4 Lancaster Course: Fundamentals and applications of pulsed lasers
- August 19 Miami Eye Foundation Course on Ophthalmic Lasers, Miami, FL
- Sept. 22 Johnson and Johnson Research Group Symposium on Lasers in Medicine, New Brunswick, NJ
- October 4 Kelman Nd-YAG Laser Course Instructor, New York
- October 31- Nov 4 American Academy of Ophthalmology: 1) Invited participant in Symposium on Nd-YAG Laser, 2) Course on the principles and applications of the Ophthalmic Nd-YAG Laser, Chicago, IL
- Dec. 10 Centinella Hospital, Instructor in Nd-YAG Laser course, Inglewood, California

1984:

- January 17 New York Ophthalmic Laser Surgical Society "Principles and Applications of the Nd-YAG Laser"
- Jan. 23-27 5th Annual Royal Hawaiian Eye Meeting "Principles and Applications of the Nd-YAG Laser" and "The YAG Laser and Intraocular Lenses"
- February 27 David Kelman Research Foundation: Instructor in Nd-YAG Laser Course

March 16-18 American YAG Laser Course, Vail, Colorado

March 31 Audubon Hospital, Louisville. Lectures on Nd-YAG Laser

April 2-8 American Intraocular Implant Society Annual Meeting
Presentation: "Advanced Applications of Nd-YAG Laser."
Moderator, Laser Symposium. Instructor, YAG Laser
Course

April 30-
May 4 ARVO Co-presenter: "Dye-Enhanced Retinal
Photocoagulation." Poster: "Time-Resolved Studies of
Optical Breakdown."

May 11-15 American Ophthalmic Advances Course, Monterey, CA

June 25-30 Ophthalmic Laser Symposium, Paris

July 26 Lancaster Course. Lecture: "Laser Principles"

August 2 David Kelman Research Foundation; Instructor, Nd-YAG
Laser Course

Sept 6 Ophthalmos, New York City. Lecture "Laser Design
Principles"

Sept 24 Welsh Cataract Congress, Houston. Lecture: "Nd-YAG
Laser Studies"

Oct 19 New England Ophthalmological Society. Lecture: "Excimer
Laser Corneal Surgery"; Boston, MA

Nov 12-16 American Academy of Ophthalmology, Annual Meeting,
Atlanta. Invited Paper: "Excimer Laser Surgery of the
Cornea and Lens."

1985:

Jan 9-11 Contact Lens Association of Ophthalmologists, San Diego.
Lecture on "The Excimer Laser and Refractive Surgery."

Jan 18 Lecture on "Advanced Applications of the Nd-YAG Laser",
Cataract Update Course, Irvine, CA. Richard Kratz, Director

Jan 24-27 Lectures on "Advanced Applications of the Nd-YAG Laser"
and "IOL Damage from Nd-YAG Laser" 6th Annual Royal
Hawaiian Eye Meeting, Lahaina

Feb 24 Lecture on "Nd-YAG Laser Update" at Second Annual
Canadian Outpatient Cataract Surgery Symposium, Calgary

March 17 Lectures on "Lasers in the Treatment of Eye Disease", 63rd
Congress of New England Optometrists

- May 6-10 Paper on "Excimer Laser Surgery of the Cornea and Lens", ARVO
- May 16 Lecture on "Alternative ECCE Techniques", New England Ophthalmological Society
- June 18 Lecture on "Results with the Nd-YAG Laser", David Kelman Research Foundation, New York
- June 20 Lecture on "Nd-YAG Laser Theory and Practice", Ophthalmology Spring Symposium, Virginia Beach, VA
- June 21-24 Lecture on "The Nd-YAG Laser and IOL's", Cataract and IOL Update Course, Monterey, CA
- July 25 Lancaster Course, Lecture on "Lasers and Eye Disease"
- Sept 13 Paper on "Epikeratophakia--Early Results", New England Ophthalmological Society
- Sept 14 Lectures on "Cataract Technique and Complications", Annual Update Course, Humana Hospital, Louisville, KY
- Sept 29 Paper on "Excimer Laser Surgery of the Cornea", Castroviejo Society, San Francisco
- Sept 30-
October 4 Instructor in 3 Academy Courses: "Complication Management in Penetrating Keratoplasty", "Nd-YAG Lasers", and "Advanced Laser Therapy for Glaucoma"
- Nov 14-15 Laboratory instructor. Epikeratoplasty workshop.
- Nov 15 Lecture on "Postoperative Management of patients after epikeratoplasty", Dallas TX
- Dec 3 Lecture on "Laser Corneal Surgery", 3rd EBAA Educational Conference and 2nd C.O.R.N.E.A. National Meeting, Washington D.C.
- Dec 18 New England Ophthalmological Society. Paper on "Management of dislocated posterior chamber intraocular lenses." Boston, MA
- 1986:**
- Jan. 20 Royal Hawaiian Eye Meeting, Maui. Lectures on "Treatment of Complications of Cataract Surgery with the Nd-YAG Laser" and "Current Status of the Excimer Laser for Keratorefractive Surgery."
- Feb 24 Lecture at the Canadian Outpatient Ophthalmic Surgical Society, Calgary, Canada on "Nd-YAG Laser Therapy of

- Postoperative Complications" and instruction in course on "Laser Therapeutics."
- March 28 Meeting of the Committee on Video Education, American Academy of Ophthalmology, Chicago
- April 7 Annual Meeting of the American Society for Cataract and Refractive Surgery, Los Angeles. Paper on "The Excimer Laser for Keratorefractive Surgery." Course instructor on "Nd-YAG Laser Therapy."
- April 11 Instructor in Epikeratophakia practicum course, Irvine, CA
- May 1 ARVO, Sarasota, FL. Co-presenter of paper "Endothelial Injury After Excimer Laser and Surgical Radial Keratotomy in Rabbits."
- June 6 Pennsylvania Academy of Ophthalmology, Hershey, PA. Invited guest of honor. Lecture on "Epikeratophakia Results in Adult Patients."
- June 7 Gordon Research Conference on Lasers in Medicine and Biology, Meriden, NH
- June 12 Visiting Professor, Yale University, Department of Ophthalmology, four lectures on epikeratophakia, cataract surgical complications, Nd-YAG laser, and excimer laser
- June 17 Invited lecturer on "Biophysics of Nd-YAG Laser Therapy in Ophthalmology, David Kelman Foundation, New York Lecture on "Nd-YAG Laser Capsulotomy and Other Anterior Segment Applications"
- June 25 Committee on Video Education, American Academy of Ophthalmology, San Francisco
- August 4 The Kevin Hill Course for practicing ophthalmologists, Colby College, Waterville, ME. Lectures on "Bacterial Keratitis", "Understanding Dry Eye Syndromes", "Pterygium", "Epikeratophakia", and "Management of Hyphema."
- August 15 Lancaster course in Ophthalmology, Colby College, Waterville, ME. Lecture on "Ophthalmic Lasers."
- Sept 12 New England Ophthalmological Society, Boston. Presentation on "Current Results of Epikeratophakia."
- October 2 Epikeratophakia practicum course, Washington, D.C., instructor
- October 27 Japan tour including Fukuoka, Kanakawa, Gamagori, Nagoya, and Tokyo, with lectures on various laser topics, including presentation as invited speaker at the International Nd-YAG Laser Symposium in Tokyo, November, 2

Dec 12 New England Ophthalmological Society, Boston. Paper on "Management of Pupil-IOL Malpositioning."

1987:

Jan 9 Combined meeting of Cataract Lens Association of Ophthalmology and the International Society of Refractive Keratectomy. Paper on "Current Status of the Excimer Laser in Refractive Surgery." Instructor in course on "Surgical Management of Keratoconus."

Feb 3-13 Royal Hawaiian Eye Meeting, Hawaii. Section Leader, Lasers. Lectures on "Controversies in Nd:YAG Laser Capsulotomy", "Nd:YAG Laser Peripheral Iridectomy", "Other Applications of the Nd:YAG Laser", Management of Iris-IOL Malpositioning", and Differential Diagnosis of Punctate Keratitis."

Feb 19-24 Canadian Outpatient Ophthalmic Surgical Society, Calgary. Lecture on "Current Status of Laser Peripheral Iridectomy" and course instructor, "Epikeratophakia."

March 30-
April 3 American Eye Study Club, Sarasota, FL. Paper on "Excimer Laser for Keratorefractive Surgery."

April 3-10 American Society for Cataract and Refractive Surgery. Paper on "New Advances in Nd:YAG Laser Therapeutics."

April 10 New England Ophthalmological Society. Paper on "Excimer Laser Keratorefractive Surgery."

April 27-
May 1 International Corneal Society Meeting, Washington, D.C. Paper on "Current Status of the Excimer Laser for Refractive Surgery."

May 3-8 ARVO, Sarasota, FL. Co-presenter of poster on "High Speed Photography of Excimer Laser Ablation" and paper on "Healing Response of the Cornea to Excimer Laser Large Area Ablation."

August 22 American Academy of Ophthalmology Regional Update Course, Washington, D.C. Lectures on "Epikeratoplasty and the Excimer Laser" and "Refractive Surgery for Astigmatism."

Oct 9-12 Guest of honor, 19th Annual Convention of the section of ophthalmology of the Puerto Rico Medical Association and Puerto Rico Academy of Ophthalmology. Lectures on "Management of malpositioned intraocular lenses", "Epikeratophakia - early results", and Advanced applications of the Nd:YAG laser."

- Nov 8 International Corneal Laser Society Meeting, Dallas, TX. Presentations on "Studies on Large Area Excimer Ablation" and "Optical Recontouring Caused by a Pseudomonas Corneal Ulcer." Castroviejo Society Annual Meeting, Dallas, TX. Original paper presented on "Epikeratoplasty for Keratoconus."
- Nov 9-12 American Academy of Ophthalmology Annual Meeting, Dallas, TX. Invited paper on "Anterior and Posterior Segment Complications of Nd" YAG Laser Capsulotomy." Discussion of paper presented by Daniel Durrie, M.D. on "Indications and Treatment of Keratoconus Using Epikeratophakia." Course instructor, "Advanced Applications of the Ophthalmic Neodymium: YAG laser, CO₂ laser and Excimer Laser"; "Keratoplasty Complications: Recognition, Treatment and Avoidance"; "Advanced Techniques for Glaucoma"; "Medical/Surgical Management of Keratoconus." Co-author, poster presentation on "Clinicopathologic Correlation in Failed Human Epikeratoplasty."
- Nov 14 Lecture on "The Excimer Laser and Refractive Surgery", AIOIS Symposium, on Refractive Surgery, Atlanta
- Dec 12 Lecture on Nd-YAG Laser Experience", David Kelman Foundation, New York
- Dec 13 Paper on "Late Complications from Anterior Chamber IOLs", New England Ophthalmological Society, Boston
- 1988:**
- Jan 25-29 Royal Hawaiian Eye Meeting, Maui, Hawaii. Presentations on "Epikeratoplasty versus Penetrating Keratoplasty for surgical correction of keratoconus" and "Regression of myopic correction in epikeratophakia due to epithelial hyperplasia."
- Feb 16-20 Massachusetts Eye & Ear Infirmary Ophthalmology Update Course, Cancun, Mexico. Lectures on "Nd:YAG laser therapy of anterior segment disorders", "Excimer laser refractive surgery", "Documentation of astigmatism", "Temporary eye function in the presence of cataract", "Cortical aspiration in ECCE", "Understanding refractive surgery", and "Preoperative medical assessment of patients undergoing local anesthesia for ophthalmic surgery."
- March 12 Guest of Honor, Emory University 25th Annual Postgraduate Conference, Atlanta, GA. Presentations on "Current status of laser corneal surgery" and "Epikeratoplasty versus penetrating keratoplasty for keratoconus."
- April 15 Symposium on clinical lasers, Columbia University. Papers on "Refractive control using the excimer laser" and "Pulsed Nd:YAG laser therapy."

- May 1-6 ARVO, Sarasota, FL. Paper presentations: Malley D, Dobi E, Steinert R, Puliafito C, Stern D: "Immunohistochemical analyses of primate corneal wound healing following excimer laser large area ablation." Frangieh G, Wagoner M, Steinert R: "Refractive regression following myopic epikeratoplasty."
- June 3-4 Instructor in the Small Incision Systems Educational Seminar, New York City. Lecture on "Special techniques" and wet lab instructor.
- June 10-11 Guest of honor, 14th Annual Meeting of Canadian Implant Association, Department of Ophthalmology, McGill University. Papers on "Foldable small incision silicone implants", YAG laser management for postop complications", and "Excimer laser keratorefractive surgery."
- July 27 Lancaster Course in Ophthalmology. Lancaster, ME. Lectures on "Laser technology and clinical applications in ophthalmology,"
- Sept 4 International Society of Eye Research. Bi-Annual Meeting, San Francisco. Paper on: "Wound healing in keratorefractive surgery."
- Sept 16 New England Ophthalmological Society. Paper on "Management of threatened and actual corneal decompensation associated with closed-loop anterior chamber intraocular lenses."
- Sept 17 Michael Reese Hospital, University of Chicago, Department of Ophthalmology. Lectures on "Advanced applications of the Nd:YAG laser in the anterior segment", "Excimer and other lasers for the future", and "Current status of epikeratoplasty and comparison of EKP to intraocular lens."
- Oct 7 The International Society of Refractive Keratoplasty. Paper on "Comparison of epikeratoplasty and penetrating keratoplasty for keratoconus." Las Vegas, Nevada.
- Oct 8-12 Annual Meeting of the American Academy of Ophthalmology. Discussion of papers by John Cowdin, M.D. and Frank Price, M.D. Course instructor: "Advanced techniques in laser treatment of glaucoma"; "Corneal diseases: diagnostic problems and newer treatment"; "Advanced applications of the Nd-YAG and excimer lasers"; "Keratoplasty complications: recognition, treatment and avoidance."
- Oct 14-15 Second International Corneal Laser Society Meeting. Boston, Massachusetts. Paper on "Clinical strategies in excimer laser corneal surgery."

- Oct 17 Guest of Honor, New York Academy of Medicine. New York City. Presentation on "Nuclear complications during phacoemulsification."
- Nov 15-17 Welsh Contract Congress. Houston, TX. Papers on "Healing response of the cornea after excimer laser keratectomy" and "Early clinical results with the Keratogel Hydrogel intracorneal implant."
- Dec 1 Dr. Samuel J. Ianocone Memorial Lecturer, University of Rochester, Rochester, NY. Lecture on "Transition to phacoemulsification."

1989:

- Jan 15-21 Royal Hawaiian Eye Meeting, Kauai, HI. Presentations on "Techniques and results of secondary intraocular lens implantation: anterior chamber lenses versus sutured posterior chamber lenses" and "Current status of epikeratoplasty, hydrogel intraocular inlays, and excimer laser refractive surgery."
- March 9 New York Implant Society, New York, NY. Presentation on "Current status and the future outlook for excimer laser refractive surgery."
- April 5 American Eye Study Club. Casa de Campo, Dominican Republic. Paper on "Excimer laser corneal surgery: has the cure found a disease?"
- April 25-28 Second American-International Congress on Cataract, IOL and Refractive Surgery. Invited Symposium. Presentation on "Medical therapeutic applications of the excimer laser." Free paper presentations on "Clinical results of hydrogel intracorneal implants" and "A new insertion device for use with small incision IOLs." Course instructor, Epikeratoplasty Workshop, with lecture on "The normal postoperative course and management of complications after epikeratoplasty."
- April 30-
May 5 ARVO, Sarasota, Florida. Co-author, paper on "Immunohistochemical analysis of rabbit corneal wound healing following excimer laser linear keratectomy." Authors: Magnente DO, Kornmehl EW, Steinert RF, Gregory WA, Puliafito CA.
- May 25-28 Guest of Honor. 22nd Panhellenic Ophthalmological Congress, Athens, Greece. Lectures on "Problems and controversial aspects on refractive surgery: epikeratophakia and intracorneal implants", "Future of lasers", "Review and development of bifocals/multifocal IOLs", and "Early clinical experience with the teledioptic system for patients with age-related maculopathy."

- June 16-17 Maloney Phaco Course, Chicago, IL. Faculty Member. Lecture on "Patient selection: indications and contraindications; pre- and postoperative management."
- August 18 Lancaster Course, Colby College, Waterville, ME. Lectures on "Corneal dystrophies and degenerations" and "Laser theory and clinical applications."
- Oct 28 Castroviejo Society. Paper on "Current status of hydrogel intracorneal implants for aphakia." International Society of Refractive Keratoplasty. Lecture and demonstration on : Intracorneal hydrogel intrastromal implants."
- Oct 29-
Nov 2 American Academy of Ophthalmology, Annual Meeting, New Orleans. Invited lecturer on "Use of lasers in keratorefractive surgery." Course instructor in courses on "Management and avoidance of post-keratoplasty complications", "Nd-YAG and Excimer lasers", "Keratoconus", and "Advanced laser therapy of glaucoma." Accepted free paper on "Penetrating keratoplasty for pseudophakic bullous keratopathy in association with closed-loop anterior chamber intraocular lenses" (Co-authors Kornmehl EW, Odrich MG, Stevens JB).
- Dec 1 New York Eye & Ear Infirmary Symposium on "Cornea and External Disease 1990: A preview." Invited speaker. Presentations on "Intracorneal Lenses and Epikeratoplasty versus IOLs in the Correction of Aphakia" and "Excimer Laser Corneal Surgery - Potentials and Pitfalls."
- Dec 2 Southeastern Regional Update Course, American Academy of Ophthalmology, Miami, FL. Lectures on "Epikeratoplasty: Current Technique and Indications" and "Lasers in Refractive Surgery."
- Dec 15 New England Ophthalmological Society, Boston. Paper presented on "Results of small incision cataract surgery compared to conventional cataract extraction."
- 1990:**
- March 7 Annual Meeting, American Society of Cataract and Refractive Surgery, Los Angeles, CA. Presentations of papers on "The Hydrogel Intracorneal Implant" and "An Insertion Device for Use with Small incision IOLs." Invited lecturer on "Perspectives on Laser Refractive Surgery."
- April 27 New England Ophthalmological Society meeting. Leader of Clinico-Pathological Conference on Management of Cataract Surgical Complications.
- April 30-
May 3 ARVO. Sarasota, Florida. Paper presentation on "Enhancement of 193nm excimer laser ablation of surface irregularities with artificial tear fluids"; May 1, 1990.

- May 9 Annual Contact Lens Seminar, Mass. Society of Optometrists, Natick, MA. Lectures on "Surgical alternatives for Monocular Aphakia" and "The Excimer Laser for Keratorefractive Surgery."
- May 24-26 Lucerne, Switzerland. Advanced Ophthalmic Laser Therapy: An International Training Course. Lectures on: "Excimer laser corneal surgery: Biologic concerns" and "Advanced applications of the Nd:YAG laser in anterior segment complications." Course instructor on "Excimer laser refractive surgery."
- June 1 New England Ophthalmological Society. Lecture on "Management of traumatic corneal perforations."
- June 8 Guest of Honor, Yale Alumni in Ophthalmology Meeting, New Haven, CT. Lectures in "Small incision cataract surgery", "Practical steps to facilitate the transition from ECCE to phacoemulsification", "Optical issues in Multifocal IOLs", and "Surgical Alternatives for the correction of Monocular Aphakia."
- June 14 Guest lecturer, Department of Ophthalmology, St. Raphael's Hospital, New Haven, CT. Lecture on "The Current Status and Future Potential for Excimer Laser Refractive Surgery."
- June 23 AAO New England Update Course. Lecture on "Keratoconus". JCAHPO Regional Continuing Education Program. Lecture on "Corneal Surgery for Refractive Errors."
- June 24 AAO New England Regional Update Course. Moderator on session on Refraction, Contact Lenses and Corneal Refractive Surgery. Lecturer on "Surgical Alternatives for the Correction of Monocular Aphakia."
- Sept 7-8 Guest of Honor. The Sally Letson Symposium, University of Ottawa Faculty of Medicine. Lectures on "Nd:YAG Laser Photocomplications of Cataract Surgery", "Current Status of Excimer Laser Photorefractive Surgery", and "Therapeutic Excimer Laser Applications."
- Sept 13-16 Welsh Cataract Congress 1990. Galveston, TX. Full-time faculty member. Paper presentations on "Visual Acuity Improvement and Corneal Endothelial Stabilization after Removal of Leiske and Stableflex Closed-loop AC IOLs", "The Array Multifocal PC IOL", "Results of a Prospective, Multicenter, Randomized, Trial on Small Incision IOLs", and "Hydrogel Intracorneal Implants for the Correction of Aphakia."
- Sept 27 Visiting Professor. Rochester Eye Institute, Rochester, NY. Lectures on "Excimer Laser Therapeutic and Refractive Keratectomy" and "Small Incision Cataract Surgery."

- Oct 12-13 Case Western Reserve University. Department of Ophthalmology Annual Meeting. Guest of Honor. Lectures on "Decisionmaking in Keratoplasty", "Epikeratophakia and Intracorneal Inlays", "Small Incision Cataract Surgery", and Excimer Laser Refractive Surgery."
- Oct 26 International Society of Refractive Keratoplasty, Atlanta, GA. Paper presentation on "Current Status of Hydrogel Intracorneal Implantation for Correction of Aphakia."
- Oct 27 Castroviejo Society, Atlanta, GA. Co-Author of paper with Sarkis Soukasian: "Posterior Polymorphous Dystrophy in Alport's Syndrome."

1991:

- January 10 Visiting Professor, Eye and Ear Institute, Pittsburgh, PA. Grand Rounds presentation on "Refractive and therapeutic applications of the excimer laser." Guest of Honor, Pittsburgh Ophthalmological Society. Lecture on "Small incision intraocular lenses."
- Jan. 15-18 Innovations in Clinical Ophthalmology: 1991. Massachusetts Eye and Ear Infirmary & Harvard Medical School, Maui, HI. Program, Co-Director. Lectures on "Conversion from Phaco to ECCE", "Small Incision IOLs", "Video CPC: Secondary Procedures for Management of Cataract Complications", "Advanced Nd:YAG Techniques", "Corneal Transplantation", "Quinolones: A New Class of Anti-infective Agents for Ocular Infection", "Hydrogel and Other Corneal Inlays and Onlays", and "Excimer Phototherapeutics: Smoothing and Scar Removal."
- March 1 New England Ophthalmologic Society. Program, Co-Chairman on topic of "New Technology." Lectures on "Excimer Laser Photorefractive Keratectomy and "Antibiotics and Viscoelastic Agents."
- March 11-15 Current Concepts in Ophthalmology. The Wilmer Institute, Johns Hopkins Hospitals, Vail, CO. Lectures on "Conversion from ECCE to Phacoemulsification", "Early Clinical Results with a Progressive Zonal Multifocal IOL", "Astigmatism and Wound Stability after Small Incision Cataract Surgery: A Prospective, Randomized Study", "The Quinolones: A New Class of Ophthalmic Antibiotics", "Surgical Alternatives for Aphakia: Sutured PC IOLs, Epikeratoplasty, and Intrastromal Hydrogels", "Understanding Viscoelastics", "Astigmatism Control in Penetrating Keratoplasty", "Wound Healing and Clinical Results of Excimer Laser Photorefractive Keratectomy", and "Experimental and Clinical Results of Excimer Laser Phototherapeutic Keratectomy."

- April 6 Resident Course in Phacoemulsification, American Society of Cataract and Refractive Surgery, Boston, MA. Lectures on "Transition to Phaco" and "Small Incision Implants." Wet Lab Instructor.
- April 7 International Society of Refractive Keratoplasty Spring Meeting, Boston, MA. Lecture on "Planning Astigmatic Keratotomy." Instructor, laboratory on radial keratotomy and astigmatic keratotomy.
- April 7-10 American Society of Cataract and Refractive Surgery Annual Meeting, Boston, MA. Free paper presentations on "A Prospective, Randomized Study Comparing Multifocal and Monofocal Intraocular Lens Implants", "A Prospective, Randomized Study of Astigmatism and Visual Recovery after Small Incision Cataract Surgery", "Results of a Hydrogel Intracorneal Implant for Aphakia" and "Excimer Laser Phototherapeutic Keratectomy." Discussion panelist, Session on Excimer Laser Refractive and Therapeutic Keratoplasty.
- April 26 Lenox Hill Hospital, New York, New York. Guest Faculty, Phacoemulsification Course. Lectures on "Small Incision IOLs: Results of a Prospective, Randomized Trial and Current Choices for Implants and Suturing" and "Phacoemulsification and the Corneal Endothelium: Viscoelastics and Posterior Chamber Techniques."
- May 16-17 Co-Chairman, Massachusetts Eye and Ear Infirmary Alumni Association Annual Meeting, Boston, MA. Presentation on "Small Incision Cataract Surgery: Results of an Ongoing Prospective Randomized Study."
- May 30-31 Chicago Ophthalmologic Society, Guest Speaker. Lectures on "Small Incision Cataract Surgery" and "Excimer Laser Refractive and Therapeutic Keratectomy."
- June 4 Visiting Professor, Department of Ophthalmology, University of California at San Diego. Lectures on "Excimer Laser Phototherapeutic and Photorefractive Keratectomy", and "Optical Considerations of Multifocal Intraocular Lenses." Case presentations and discussions.
- June 4 San Diego County Ophthalmologic Society. Guest of Honor. Lecture on "Small Incision Cataract Surgery."
- June 7 Nuremberg, Germany. Conference on Excimer Lasers. Lecture on: "Photorefractive Keratectomy: The US Experience" and "Strategies for Phototherapeutic Keratectomy."
- June 8-9 Fourth Jahrestagung der Operierenden Augenärzte Deutschlands. Guest of Honor. Lecture on "Keratopathia Bullosa Nach Kataraktoperation."

- June 28 Cornea, Cataract, and Laser Conference. Little Company of Mary Hospital, Oak Brook, IL. Lectures on "Small Incision IOLS", "Excimer Laser and Other Lasers: Present and Future", "Advanced Applications of the Nd:YAG Laser in the Anterior Segment", and "Surgical Alternatives for the Correction of Aphakia."
- June 30 Regional Update Course, American Academy of Ophthalmology, Cambridge, MA. Lecture on "Small Incision IOLs."
- July 26-27 Michigan Ophthalmological Society. Guest of Honor. Lectures on "Excimer Laser PRK", "Small Incision Cataract Surgery", and "Viscoelastics and the Corneal Endothelium."
- July 30-31 Doheny Eye Institute. University of Southern California. Los Angeles, CA. Grand Rounds presentation on "Excimer laser photorefractive and phototherapeutic keratectomy."
- Sept 6 University of Maryland. Department of Ophthalmology, Eleventh Annual Clinical Conference, Columbia, MD. Guest of Honor. Presentations on "Updated on excimer laser photorefractive and phototherapeutic studies" and "Small incision intraocular lenses."
- Sept 13 New England Ophthalmologic Society, Boston, MA. Paper presentation on "Keratomeiosis and the microkeratome: techniques in evolution."
- Sept 20 Seventeenth Cornea Research Conference, Eye Research Institute, Boston, MA. Paper presentation on "Strategies for Phototherapeutic Keratectomy with the Excimer Laser." Moderator of Keratorefractive section.
- Oct 12 Advanced Phacoemulsification Seminar, Newport Beach, CA. Lectures on "Nuclear cracking techniques", "Multicenter randomized prospective study on incision size and astigmatism", and "Management of unusual and challenging patients." Laboratory instructor.
- Oct 12 International Society of Refractive Keratoplasty, Anaheim, CA. Paper presentation on "Results of Hydrogel intracorneal implantation for aphakia."
- Oct 14 International Corneal Laser Society. Paper presentation on "Phototherapeutic keratectomy: what pathology can be adequately treated?"
- Nov 9-10 American Academy of Ophthalmology Innovations in Laser Technology and Applications. Course Co-Director. Lectures on "Excimer laser phototherapeutic keratectomy" and "Advanced applications of the Nd:YAG laser". Lab instructor on excimer lasers and picosecond lasers.

Dec 13 New England Ophthalmologic Society, Boston, MA. Paper presentation on "Ongoing results from a prospective, randomized, multicenter study of small incision cataract surgery."

1992:

Jan 13-17 Innovations in Clinical Ophthalmology. Kauai, HI. Course Co-Director. Presentations on "Cataract Wound Construction"; "Studies on Small Incision IOL Astigmatism and Current Choices for Foldable IOLs"; "A Video Symposium on Cataract Surgical Technique"; "Haze in Silicone IOLs"; "Cystoid Macular Edema and Corneal Edema with Anterior Chamber IOLs"; "Computerized Topographic Analysis of the Cornea: A Clinical Tool"; "Review of Refractive Surgery"; "Review of Corneal Disease"; "Applications of the Nd:YAG Laser in Ophthalmology."

March 15-20 Faculty Member, Current Concepts in Ophthalmology Course by the Wilmer Institute of Johns Hopkins University, Vail, CO. Lectures on "Stability of Self-sealing Cataract Wounds from 1.4 to 8mm Width and 15mm to 40mm IOP: A Laboratory Study"; "Prospective Randomized Multicenter Study of Astigmatism after Phacoemulsification with 4mm and 6.5mm Incisions: Early Results and 1 Year Follow-up"; "Constructing the Wound in Phacoemulsification"; "A Prospective Randomized Double-masked Multicenter Study of a Progressive Zonal Multifocal IOL"; "Discoloration and Optical Performance of Implanted Silicone IOLs"; and "A Prospective Randomized Study of a Single Running Suture Versus A Combined Interrupted/Running Suture Technique for Penetrating Keratoplasty." Phacoemulsification Wet Lab Instructor.

April 5-8 Thirty-Sixth Annual Meeting, American Eye Study Club, Naples, FL. Lecture on "Experience with the Excimer Laser."

April 11-14 American Society of Cataract and Refractive Surgery Annual Meeting, San Diego, CA. Free paper presentations on: "Contrast Sensitivity Testing", "One Year Follow-up on a Randomized Prospective Study Comparing 4.0mm and 6.5mm Cataract Wounds"; "Intrinsic Stability of Self-Sealing Cataract Wounds"; and "Haze in Silicone IOLs". Co-Moderator of Section on Cataract Wound Stability.

April 24-25 Visiting Professor, W. K. Kellogg Eye Center, University of Michigan, Ann Arbor, MI. Case presentations. Lectures on "Refractive Surgery and the Excimer Laser" and "Advances in Phacoemulsification, Wound Construction and IOLs".

April 30 Guest of Honor, Rhode Island Society of Eye Physicians and Surgeons, Providence, RI. Lecture on "Excimer Laser".

- May 29-30 Course on "Next Step to Phaco", Boston, MA. Course Director, William Maloney, M.D. Lectures on "Small Incision IOL Design" and "Review of Factors Causing Astigmatism in Cataract Surgery." Laboratory Instructor.
- June 12-14 Nurnberg, Germany 5th Annual Meeting of German Ophthalmic Surgeons. International Symposium. Invited Guest Speaker. Principal lecture: "Penetrating and Lamellar Keratoplasty: Indications, Technique and Postoperative Management." Panel Discussant on corneal transplantation and on refractive surgery.
- June 15-16 Lund, Sweden. The XXIV Berzelius Symposium. Sponsored by the Swedish Society of Medicine. Invited Speaker. Presentation on "Intracorneal Lenses-Hydrogel". Commentator on surgical correction of astigmatism after penetrating keratoplasty and on excimer laser photorefractive keratectomy for myopia and therapeutic keratectomy. Panel member, "Refractive Surgery-Past, Present and Future."
- June 25-28 Innovations in Clinical Ophthalmology: 1992. Sponsored by the New England Eye Center, Hamilton, Bermuda. Lectures on "Radial Keratotomy in the Excimer Era", "Excimer Laser: Photorefractive Keratectomy", "Corneal Inlays", "Penetrating Keratoplasty: Suture Technique, Control of Astigmatism and Corneal Topography", "Principles of Phaco Units", "Small Incision and Foldable IOLs". Moderator of sections on corneal and refractive surgery and phacoemulsification. Director of phacoemulsification wet lab.
- August 14 Guest of Honor, Albany Medical College, Department of Ophthalmology Summer Conference, Saratoga Springs, NY. Lectures on "Excimer vs. RK: Current results and choices" and "Phacoemulsification, IOLs, Viscoelastics and the Corneal Endothelium."
- August 28 Munich, Germany. Course Director, Instructional Course on "Keratorefractive Surgery."
- Sept 10-12 Welsh Cataract Congress, Houston, TX. Under the auspices of the Cullen Eye Institute and the Baylor College of Medicine. Permanent Faculty Member. Lectures on "The Effect of 4mm vs 6.5mm Incision and Closure Technique on Astigmatism: One Year Results", "A New Design Silicone IOL for Insertion Through an Unenlarged Phacoemulsification incision", and "Prospective Randomized Study of Contrast Sensitivity in Multifocal and Monofocal IOL Patients."
- Sept 19-20 Course Co-Director, Laser Therapy of Ocular Disease: Current Approaches and Future Technology. New England Eye Center and Tufts University School of Medicine. Lectures on "Photorefractive Keratectomy" and "Advanced

- Applications of the Nd:YAG Laser". Laboratory instructor, Excimer Laser Workshop.
- Oct 1-2 Visiting Professor, University of Toronto. Grand Rounds Lecture: "Current Status of Photorefractive Keratectomy". Resident lectures on phacoemulsification.
- Oct 8 Guest Lecture, Grand Rounds, University of Connecticut Health Center, Farmington, CT. Lecture on "Excimer Laser Refractive Surgery Update."
- Nov 8-12 American Academy of Ophthalmology, Dallas, TX. Paper presentations: Keynote invited speaker at Symposium on Laser Corneal Surgery, "Current Clinical Results." Co-Author of two free paper presentations: "IOL Fixation Techniques with Penetrating Keratoplasty" and "Refractive and Visual Results of a Multicenter Trial of Excimer Laser Photorefractive Keratectomy." "Modern Phacoemulsification"; and "Refractive Keratoplasty Debates". Presentations at informal symposia: "Updated Phase III Results of Excimer Laser Photorefractive Keratectomy"; "Management of Post-Penetrating Keratoplasty Astigmatism Utilizing Computerized Corneal Topography"; Round Table on Refractive Surgery and Incisional Keratotomy"; and "Update on a Randomized Prospective Study of Sutured and Unsutured Cataract Wounds."
- Dec 4 New England Ophthalmologic Society Meeting, Boston, MA. Paper on "Facilitation of Aspiration of Cortex."
- Dec 13 Berlin, Germany. Course Director, "Refractive and Astigmatic Keratotomy: Lectures and Workshop". Berlin Hospital Augenklinik.
- 1993:**
- Jan 25-29 Co-Director, Innovations in Clinical Ophthalmology, Maui, HI. Director of sessions on "Innovations in Cataract Surgery", "New Technology and Complications in Cataract Surgery", and "Refractive Surgery". Presentations on "Principles of Astigmatically Neutral Wound Construction", "A Phaco Sampler: Video Symposium", "Facilitation of Aspiration of Cortex during Phacoemulsification", "Management of Anterior Segment Complications with the Nd:YAG Laser", "Lasers for Keratorefractive Surgery", "Current Results of Phase III Photorefractive Keratectomy" and "Comparison of Radial Keratotomy and Photorefractive Keratectomy: 1993 and Beyond."
- March 14-19 Wilmer Institute, Johns Hopkins University. Current Concepts in Ophthalmology Conference, Vail, CO. Lectures on: "Principles of Multifocal IOLs"; "Design Principles of the Newest Small Insertion Intraocular Lenses"; "Facilitation of Superior Cortical Aspiration in Phacoemulsification"; "Results

- with a Single Adjustable Running Suture Technique for Penetrating Keratoplasty"; "Current Results of Phase III Excimer Laser Photorefractive Keratectomy Study"; "Technique for Astigmatic Keratotomy"; "RK vs. PRK in 1993"; "The Future of Refractive Surgery in Five Years"; "A System for Incisional Keratotomy."
- March 23 Guest of Honor, Division of Ophthalmology, Uniformed Services of the University of the Health Sciences. Program on Keratorefractive Surgery and the Military. Bethesda, MD. Lecture of "Excimer Laser Treatment for Myopia: Basic Concepts, Current Results and Comparison to Radial Keratotomy".
- March 26 New England Ophthalmologic Society. Paper presentation on "Current Status of Excimer Laser Photorefractive and Phototherapeutic Keratectomy." Video presentation on "Suture Adjustment for Control of Post-Keratoplasty Astigmatism."
- April 17 Berlin, Germany. Course Director, "Refractive and Astigmatic Keratotomy: Lectures and Workshop."
- May 10-12 Third American-International Congress on Cataract, IOL, and Refractive Surgery. Seattle, WA. Free paper presentations on "Excimer Laser Photorefractive Keratectomy Phase III Multicenter Trial: Visual and Patient Satisfaction Results" and "One Year Results from the Prospective Randomized Study of the AMO Array IOL versus Monofocal IOL."
- May 14 Catholic Medical Center, Manchester, NH. Course on Excimer Laser Surgery. Guest Speaker, "Current Status of Photorefractive Keratectomy and Phototherapeutic Keratectomy."
- August 6 American Academy of Ophthalmology, Summer Institute, Washington, DC. Course Director: "Cataract Update" and "Advances in Phacoemulsification". Presentations on "Principles of Wound Construction", "Optics of Multifocal IOLs", "Round and Oval PMMA IOLs", "Hydrodissection" and "12 O'clock Cortex."
- August 17-
August 21 American Eye Study Club, 37th Annual Meeting, Coeur D'Alene, ID. Paper presentation on "One Year Results of Excimer Laser Phototherapeutic Keratectomy for Low to Moderate Myopia."
- Sept 11 International Symposium celebrating the dedication of the New England Eye Center, Boston, MA. Guest speaker, "The future of cataract and IOL surgery."
- Sept 17 New England Ophthalmologic Society. Boston, MA. Lecture on "Protecting the Cornea". Luncheon Symposium Director

"Clinical Applications of Corneal Topography."

- Oct 1 Connecticut Society of Eye Physicians Semiannual Meeting, Waterbury, CT. Guest Lecturer. Presentations on "New Technology and Techniques: Avoidance and Management of Complications" and "IOL Technology: Round, Oval, and Foldable Intraocular Lenses."
- Oct 16 Munich, Germany. Course Director: Astigmatic and Radial Keratotomy. Hotel Bauer, Feldkirchen.
- Nov 12-18 Annual Meeting of the American Academy of Ophthalmology and Satellite Meetings, Chicago, IL. Plenary Session presentation on "Indications for Phototherapeutic Keratectomy". Course Instructor, "Management of IOL Complications" (Osher), "Update on Cataract Surgery and IOLs" (Hoffer), "Keratorefractive Debates: (Belmont). Satellite Meeting presentations on "High Vacuum Phaco Chop", "Management of Vitreous Loss at Cataract Surgery", "Hydrodissection and Hydrodelineation", "Advances in Foldable and Multifocal IOL Technology", "Indications for Corneal Topography", "Results of a Prospective Randomized Trial of Sutureless Cataract Incisions Compared to Closure with 10-0 nylon and 10-0 Vicryl", "Results of Phase III PRK."
- Dec 3-4 University of North Carolina, Chapel Hill. Visiting Professor, S. Dace McPherson, Sr. Memorial Lecture: "Current Status and Future Trends of Excimer Laser Photorefractive Keratectomy". Resident lectures on "Fluidics in phacoemulsification", "Facilitation of superior cortical aspiration" and "Phaco chop."
- Dec 10 New England Ophthalmologic Society. Paper presentation on "Nuclear Disassembly: High Vacuum Phaco Chop."
- Dec 13 American Academy of Optometry, Boston, MA. Invited presentation on "Summary of the literature on photorefractive keratotomy and radial keratotomy."

1994:

- Jan 24-28 Course Co-Director, Innovations in Clinical Ophthalmology, Maui, HI. Program coordinator and moderator for sessions on cataract surgery technique, cataract complications, and refractive surgery. Paper presentations on: "Fluidics and Phaco", "Topical anesthesia and blockite", and "Current results of Phase III PRK: Summit Technology". Panelist, "Video symposium: Challenges and Complications". Editor and contributor, 60 minute videotape on "Phaco Sampler 1994."
- March 13-
March 18 Current Concepts in Ophthalmology, Wilmer Ophthalmological Institute, Vail, CO. Presentations on

- "Excimer Laser Phase III PRK Results", "Phaco Fluidics: Understanding the Behavior of Peristaltic, Venturi, and Diaphragm Pumps", "Topical Anesthesia and Block-Lite", "High Vacuum Phaco Chop", "Where in the World is the Viscoelastic?", and "Cortical Cleaving Hydrodissection and Aspiration of Superior Cortex."
- April 9-13 American Society of Cataract and Refractive Surgery, Boston, MA. Papers presentations on "Data on Stability and Predictive Factors for Excimer Laser PRK" and "Fluidics in Phacoemulsification." Educational Videotape presentations on "High vacuum phaco chop" and "Where in the world is the viscoelastic?"
- April 15 New England Ophthalmologic Society, Boston, MA. "Surgical Maneuvers to Restore IOL Centration."
- April 29 Maine Society of Eye Physicians and Surgeons Spring Meeting, Rockport, ME. Guest of Honor. Lectures on "New Techniques of Phacoemulsification" and "Refractive Surgery Update."
- May 14 Ocular Symposium, University of California, Berkeley, School of Optometry Alumni Meeting, Boston, MA. Lecture on "Timing, Content, and Complication Recognition after Small Incision Cataract Surgery."
- May 20 New England Ophthalmologic Society, Boston, MA. Paper on "Phase III Results for Excimer Laser Photorefractive Keratectomy."
- May 25 Department of Ophthalmology, Long Island Jewish Medical Center and Department of Ophthalmology, North Shore University Hospital-Cornell University Medical Center Joint Clinical Day in Ophthalmology: Complications in Anterior Segment Surgery, Westbury, NY. Guest Faculty. Lectures on "Management of Decentered IOLs" and "Prevention and Management of Vitreous and Nuclear Loss during Phacoemulsification."
- July 15-17 Advanced Foldable IOL and Phacoemulsification Course/Refractive Surgery Course Japanese-American Blue Hawaii Summer Seminar, Honolulu, HI. Course Director. Lectures on "Incision/Wound Architecture", "Capsulorhexis with Forceps", "Phaco Technique", "Silicone IOL Implantation", "Advanced Phaco Machine Technology", "Surgical Management of Astigmatism", and "Future Trends in Refractive Surgery: Excimer Laser."
- October 7 New England Ophthalmologic Society, Boston, MA. Symposium presentation: "Excimer Laser Phototherapeutic Keratectomy."
- Oct 28-29 American Society of Cataract and Refractive Surgery Interactive Symposium on Refractive Surgery, San

Francisco. Presentations on "Phototherapeutic Keratectomy with the Summit Excimer Laser" and "Updated Results and Current Status of the Phase III Summit Excimer Laser PRK Study."

October 30-
Nov 3

Annual Meeting, American Academy of Ophthalmology, San Francisco. Course Director, Excimer Laser Skills Transfer Course. Lecture on "Results of Photorefractive Keratectomy". Course Faculty, Course 215, "A Video Symposium of Challenging Cases and Management of Intraoperative Complication During Cataract Surgery", Course 356, "The Surgical Management of the Malpositioned Intraocular Lens", Course 648, "Modern Implant Surgery XIV". Discussion of "Phototherapeutic Keratectomy: Results of the VISX FDA Investigation" by Aquavella, JV, McDonald M, Sanders D.

Nov 16

Georgetown University, Center for Sight, Visiting Professor, Washington, DC. Lecture presentations: "Understanding Fluidics in Phacoemulsification", "Current Results of Excimer Laser Phototherapeutic and Photorefractive Keratectomy" and "Cataract Surgical Complications."

Dec 2

New England Ophthalmologic Society, Boston, MA. Presentation: "High Vacuum Phaco Chop."

1995:

Jan 23-27

Hawaii 95 Meeting. Waikoloa, HI. Section Director, Cataract Surgical Techniques. Lectures on "Principles of Fluidics in Phacoemulsification", "High Vacuum Phaco Chop", "Iris Reconstruction", "Stabilization of the IOL in Complicated Cases" and "Current Results of PRK using 5.0 and 6.0mm Optical Zones."

March 3

New England Ophthalmologic Society. Boston, MA. Presentation on "Initial Phase III and Recent Updated Studies on Excimer Laser PRK."

March 12-17

Wilmer Institute, Johns Hopkins University. Current Concepts in Ophthalmology, Vail, CO. Lectures on "Understanding Fluidics in Phacoemulsification", "High Vacuum Phaco Chop Technique", "Results of Excimer Laser Phototherapeutic Keratectomy", "Results of Excimer Laser Photorefractive Keratectomy", "Assuring IOL Centration in Difficult Cases", and "Pars Plana Vitrectomy for the Anterior segment Surgeon."

March 31

Research Study Club of Los Angeles, Pasadena, CA. Guest of Honor. Lectures on "Understanding and Harnessing Vacuum and Aspiration for Controlled Phacoemulsification", "Clear Corneal Incisions and Topical Anesthesia in Phacoemulsification", "Maneuvers to Insure IOL Centration

in Challenging Cases", and "Results of Excimer Laser Photorefractive and Phototherapeutic Keratectomy Trials."

- April 1-5 American Society of Cataract and Refractive Surgery Annual Meeting. San Diego, CA. Presentations of papers on "Results of Phase III Photorefractive Keratectomy Trials", and "True Incision Size after Clear Corneal Phacoemulsification and Folded IOL Implantation." Course Instructor, "Phaco Chop Technique."
- May 19-21 Nurnberg, Germany. Eighth Annual German Ophthalmic Surgeons Meeting. Guest of Honor. Lecture on "Radial Keratotomy-Astigmatic Keratotomy-Photorefractive Keratectomy-LASIK: When? Where? How?"
- June 1-4 Charleston, SC. 1995 Cataract and Refractive Surgery Update, Department of Ophthalmology, Storm Eye Institute, Medical University of South Carolina. Guest of Honor. Lectures on "Understanding and Harnessing Vacuum and Aspiration for Controlled Phacoemulsification", "Clear Corneal Incision", "Case Presentations in Astigmatic Keratotomy", and "Results of Summit Excimer Laser Photorefractive Keratectomy for Low Myopia."
- August 1-6 American Eye Study Club, Thirty-Ninth Annual Meeting, Sun Valley, Idaho. Paper on "Excimer Laser PRK: What is going on here?"
- Oct. 13-14 Milan, Italy. Videocataratta 1995 Meeting. Invited papers on "Fluid Dynamics for Correct Phaco", "Phaco under High Vacuum", "The Subincisional Cortex", "IOL Implantation following Posterior Capsular Rupture". Surgery on three cataract patients.
- October 29-
Nov 2 Annual Meeting, American Academy of Ophthalmology, Atlanta, GA. Senior Instructor, Excimer Laser Skills Transfer Course. Lecture on "Management of Complications after Photorefractive Keratectomy" as part of the Refractive Surgery Interest Group subspecialty day symposium on "Reshaping the Future: Refractive Surgery 1995". Co-author of free paper: "Characteristics Influencing Outcomes of Photorefractive Keratectomy in the Phase III Multicenter Summit Study", with co-authors Peter S. Hersh, MD and Oliver Schein, MD. Instructor in courses on "The Surgical Management of the Malpositioned Intraocular Lens" and "A Video Symposium of Challenging Cases in the Management of Intraoperative Complications During Cataract Surgery", Robert H. Osher, MD, Senior Instructor.
- Dec 8 New England Ophthalmologic Society. Nurses and Technicians Program. Hynes Convention Center, Boston, MA. Lecture on "Refractive Surgery".

1996:

- Jan 21-26 Hawaii 96 Clinical Meeting. Maui, HI. Program Moderator, Section on "Cataract: Technique and Technology" and "Cataract Complications Management". Lectures on "True Incision Size after Phaco and I/A and IOL Insertion" and "High Vacuum Phaco Chop". Video presentation: "Annual Phaco Sampler V" and "Complications Management Video Symposium."
- March 10-15 Wilmer Eye Institute, Johns Hopkins University. Current Concepts in Ophthalmology, Vail, CO. Lectures on "High Vacuum Phaco Chop with the Claw Chopper", "The Ultimate Stable-Sutured PC IOL", "Closed Chamber Maneuvers to Restore Proper IOL Position", "What Should We Tell Patients About Results and Complications before PRK", "Management of PRK Complications: and "Why Wait Between PRK in a Patient's Eyes?"
- April 12 Guest of Honor. Annual Ophthalmology Postgraduate Conference and Alumni Day. University of Wisconsin Medical School, Department of Ophthalmology and Visual Sciences, Madison, WI. Lectures on "Phaco Fluidics and High Vacuum Phaco Chop", "Excimer Laser PRK and LASIK" and "Clear Corneal Wounds and Topical Anesthesia for Cataract Surgery".
- April 29 New England College of Optometry, Boston, MA. Lecture on "Cataract Surgery".
- June 1-5 Annual Meeting of the American Society of Cataract and Refractive Surgery, Seattle, WA. Paper presentations on "Myopic PRK: Regression and Haze in the Second Eye as Predicted by the First Eye Results" and "Clinical Performance Characteristics of Modern Foldable IOLs". Keynote speaker, lecture entitled "Managing Refractive Surgery: The Challenge of High Expectations". Course instructor in courses on "Advanced Phacoemulsification" and "Challenging Cases in Cataract Surgery: An International Video Symposium".
- Sept 5 American Optometric Association, Chicago, IL. Invited Lecturer on "Excimer Laser Technology".
- Oct 4 New England Ophthalmologic Society, Boston, MA. Invited paper on "Which Corneal Scars and Dystrophies are Treatable with the Excimer Laser?"
- Oct 25-6 Reshaping the Future: Refractive Surgery 1996. Meeting sponsored by AAO Refractive Surgery Interest Group. Lecture on "Pearls of My Technique". Moderator of session on "Learning from Our Experience".
- Oct 27-31 Annual Meeting, American Academy of Ophthalmology, Chicago, IL. Invited lecturer, Symposium on Complications

of Laser Technique and Technology. Paper on "Haze and Retreatment". Discussant of free paper on "Patient Satisfaction after Penetrating Keratoplasty: Comparison of Subjective and Objective Outcomes". Faculty of instructional courses: "Complications of Laser Refractive Surgery-management and Prevention", "A Video Symposium of Challenging Cases and the Management of Intraoperative Complications in Cataract Surgery", "The Surgical Management of the Malpositioned Intraocular Lens", and "Clinical Decisions in the Management of Complications of Cataract and IOL Surgery".

Dec 6-7 Wills Eye Hospital, Philadelphia, PA. Cornea Conference. Guest Lectures on "Suture Adjustment for Reduction of Post-Keratoplasty Astigmatism", "Methods of Epithelial Removal for PRK", "LASIK versus PRK".

Dec 13 New England Ophthalmologic Society, Boston, Mass. Luncheon Seminar Leader. Subject: "Refractive Surgery Implications for Cataract/IOL Surgery".

1997:

Jan 19-24 Hawaiian Eye Meeting, Maui, HI. Moderator of sessions on cataract techniques: techniques and technology and cataract complications. Presentations on "Toward the goal of zero PC rupture", "Surgical maneuvers to restore IOL centration". Video presentations on "Phacoemulsification Sampler VI" and Cataract complications video symposium".

Feb 12-16 American Eye Study Club 41st Annual Meeting, Los Cabos, Mexico. Presentation of paper on "Wound healing variations after PRK: Diagnosis and Treatment".

Mar 9-14 Current Concepts in Ophthalmology, Wilmer Eye Institute, Johns Hopkins University, Vail, CO. Lectures on "Stabilization of posterior chamber intraocular lenses", "Techniques for epithelial removal during PRK", and "Toward the goal of zero posterior capsule rupture". Panel discussion on "The worst refractive surgical complication that I have seen".

April 26-30 American Society of Cataract and Refractive Surgery, Annual Symposium on Cataract, IOL, and Refractive Surgery, Boston, MA. Free paper presentations on "Incision Requirements of Acrylic IOLs" and "PRK for Moderate to High Myopia with the Summit Apex System". Co-author of free papers on "Assessment of the potential corneal acuity measurement using the EyeSys corneal analysis system (first author: Pierre Demers, MD); "The nature and management of corneal haze following PRK (first author: Marc A. Michelson, MD) and "The rabbit model as a predictor of human incision size in evaluation of soft IOL inserters (first author: Arlene E. Gwon, MD). Educational video presentations on "Impossible Mission Cataract

Surgery”, and “Techniques of Epithelial Removal in PRK”. Course Instructor, “Phaco Chop Course 1026” and “International Video Symposium of Challenging Cases and Surgical Complications”.

Sept 26 Sally Letson Symposium, Ottawa, Canada. Invited Speaker. Lectures on “Wound Construction and Astigmatism in Cataract Surgery” and “Phakic and Multifocal Intraocular Lenses”

Oct 23-29 Annual Meeting of the American Academy of Ophthalmology, San Francisco, CA. Refractive Surgery Interest Group Meeting. Invited paper on “Should I do bilateral surgery?”. Moderator of section on “What I recommend to my patients”. Course Instructor, courses on “A video symposium of challenging cases in management of intraoperative complications during cataract surgery”, “Clinical decisions in the management of complications of cataract and IOL surgery” and “The surgical management of the malpositioned intraocular lens”.

Nov 16-21 Guest of Honor, Royal Australian College of Ophthalmologists. Lectures on “Toward the Goal of Zero Capsular Rupture”, “PRK vs. LASIK for Moderate to High Myopia: A Prospective, Randomized Trial”; and “Clinical Pathologic Cataract Symposium”.

Dec 5-6 University of Toronto, Toronto, Canada. Update on Cornea and Anterior Segment. Invited lectures on: “LASIK: Update on the Research, Indications, and Technique”, “Complications of Refractive Surgery and How to Avoid Them”, “Nuclear Fracture Techniques”, “Latest Advents: Making Sense of the New Technologies”: Small Incision, Phaco Needles, Clear Corneal Incisions, Machine Advances, Etc.”, and “To Fold or Not to Fold: Newest IOL Designs and Materials”.

1998:

January 30 Universite Laval, Quebec City, Canada. 1998 Jean Lacerte Lecture: “Anterior Segment Reconstruction”, “Secondary IOLs”, “IOL Exchange”, and “Iris Reconstruction”. Additional papers: “Laser Therapy of Corneal Neovascularization”, “Phototherapeutic Keratectomy”, and “Prevention and Treatment of Astigmatism after Penetrating Keratoplasty”.

March 6 Charles Burnham, MD Lecturer, Carraway Methodist Medical Center, Birmingham, AL. Lecture on “Refractive Surgery Today and Tomorrow”.

March 16-20 Wilmer Eye Institute, Johns Hopkins University. Current Concepts in Ophthalmology, Vail, CO. Lectures on “PRK vs. LASIK for Moderate to High Myopia”; “Bilateral Simultaneous Refractive Surgery”; “Foldable IOLs and Wound Size”; “Phaco Chop: The Trick”; “Multifocal IOLs”; “Reducing

Corneal Transplant Astigmatism” and Panelist in Panel Discussion on “Refractive Surgery Disasters”.

- April 3 University of Minnesota. “Current Concepts in ophthalmology: Multispecialty Conference”, Minneapolis, MN. Guest Speaker. Lectures on “Multifocal IOLs”, “High Vacuum Phaco Chop” and “Wound Size: Acrylic vs. Silicone, Forceps vs. Injectors”.
- Minnesota Academy of Ophthalmology, Minneapolis, MN. Guest of Honor. Lecture on "Toward the Goal of Zero Capsular Rupture”.
- April 18-22 American Society of Cataract and Refractive Surgery Symposium. Moderate to High Myopia: Prospective Randomized Multicentered Trial” and “Clinical Results of the AMO ARRAY Multifocal IOL”. Course Instructor, Refractive Cataract Surgery: Tips from the Experts: When the Outcome is Disappointing: Avoidance and Remedy”; “An International Video Symposium of Challenging Cases and Surgical Complications” and “Advances in Cataract Surgery: Clinical Applications of Multifocal IOL Technology”.
- April 24 New England Ophthalmological Society, Boston, MA. Invited Lecturer on “Preserving the Capsule/Rescuing the Nucleus”.
- May 17-20 American Ophthalmological Society, Hot Springs, VA. Paper presented on “LASIK and PRK for moderate to high myopia: A prospective, randomized, multi-centered trial”.
- May 29 Comprehensive Ophthalmology Pearls II. Vanderbilt University School of Medicine, Nashville, TN. Grace and William S. Snyder Lecture: “Current Results and Future Directions of Refractive Surgery” and lecture on “Advances in Cataract Surgery”.
- October 5 New York Keratorefractive Society, New York, NY. Invited Speaker on “Principles of Multifocal Intraocular Lenses”.
- Nov 6-11 Annual Meeting, American Academy of Ophthalmology. Subspecialty Day: Refractive Surgery 1998. Lecture on “Multifocal IOLs”. Section Moderator, “Update on Hyperopia”. Panel Discussion on “Burning Questions”. LEO Clinical Update on Cataract: Lectures on “Phaco Chop Technique”, “Multifocal Intraocular Lenses” and “Pars Plana Vitrectomy for the Cataract Surgeon”. Video presentations on “My Fastball Cataract Surgical Technique” and “Staining of the Anterior Capsule with IGG Dye”. Course Instructor, “Clinical Decisions in the Management of Complications in Cataract and IOL Surgery”. Course Instructor, “A Video Symposium of Challenging Cases in the Management of Intraoperative Complications during Cataract Surgery”. Invited Paper: Symposium on Primary Eye Care

Management Problems: "Case Selection and Results of Phototherapeutic Keratectomy".

Dec 3 Thursday afternoon Guest Lecture Series, Yale Eye Center, New Haven, CT. Lecture on "LASIK Results and Complication Avoidance and Management". Discussion of resident and staff Case presentations.

Dec 10 Invited Lecturer: American Optometric Association. San Francisco, CA. Talk on "Clinical Results and Retrospective Quality of Life Survey with the Array Multifocal IOL".

1999:

Feb 11 XXXII Annual Everett L. Goar Memorial Lecture. Houston Ophthalmological Society, Houston, TX. Lecture on "Excimer Laser and Cataract/IOL Update". Guest of Honor. Grand Rounds, University of Texas Department Of Ophthalmology. Houston, TX.

Feb 12 Guest of Honor. Ophthalmology Grand Rounds. Baylor Medical School and the Cullen Eye Institute, Houston, TX. Lecture on "Phaco Chop".

Mar 15-19 Wilmer Eye Institute: Current Concepts in Ophthalmology, Vail, CO. Lectures on "Early Experience with the New Allergan Sovereign Phaco Unit", "Phaco of the 4+ Nucleus", "Key Points for Array Multifocal IOL", "Gadgets for LASIK", and "Microkeratome Advances and Challenges". Panel discussion on "Refractive Surgery Complications".

April 9-13 American Society of Cataract and Refractive Surgery Annual Meeting, Seattle, WA. Paper presentations on "Early Clinical Experience with the Sovereign Phacoemulsification System: Impact of Technological Advancements" and "Key Elements in Achieving Good Clinical Outcomes with the Array Multifocal IOL". Film Festival presentation: "Haloes are for Angels, not IOLs: Reducing Halo and Glare with Multifocal IOLs". Course Instructor: "How to become a LASIK Expert"; Principal Instructor: Burjor Banaji, MD.

April 23 77th Annual Eye Care Congress of the New England Council of Optometrists, Providence, RI. "Cataract Surgery Update".

Sept 18 21st Biennial Cornea Research Conference, Boston, MA. Invited Speaker on "Refractive Surgery and Healing Pathology".

October 8 Invited Speaker. New England Ophthalmologic Society, Boston, MA: "Calculating IOL Power in Post-refractive Patients".

Oct 22-23 Refractive Surgery Subspecialty Days, American Academy of Ophthalmology, Orlando, FL. Lecture on "Causes and

Medical and Surgical Management of Irregular Astigmatism after LASIK". Moderator of Session and Discussion Panel on "Non-laser Refractive Surgical Techniques".

Oct 24-27 Annual Meeting, American Academy of Ophthalmology, Orlando, FL. Symposium on Refractive Intraocular Lenses, Invited paper on "Multifocal Intraocular Lenses". Course Instructor, LEO Clinical Update Course: Cataract; "Challenging Cases and Management of Intraoperative Complications during Cataract Surgery"; "The Surgical Management of the Malpositioned Intraocular Lens".

Nov 12-13 American Society of Cataract and Refractive Surgery 25th Anniversary Reunion Meeting, Los Angeles, CA. Invited "Early Scientific Paper Representations": "The excimer laser for keratorefractive surgery" and "Advanced applications of the Nd:YAG laser":

2000:

March 3 15th Annual Richard E. Hoover Lecturer. Greater Baltimore Medical Center. Lecture on "Multifocal Intraocular Lenses in Cataract and Refractive Surgery".

March 12-17 Vail, CO. Wilmer Eye Institute Update in Ophthalmology. Lectures on "Phacoemulsification Chop of the 4+ Nucleus", "Avoiding Halo and Glare with the Array", "Clinical Key Points for the Array", "Advanced Ultrasonics", "Irregular Astigmatism after LASIK", "Obtaining a Sleek Surface after LASIK".

May 19-24 American Society of Cataract and Refractive Surgery, Boston, MA. Paper presentations on "A prospective, randomized study of continuous versus pulsed power in phacoemulsification surgery", "Single center results of hyperopia and astigmatic LASIK", and award-winning video on "A sleek surface after LASIK: Maintaining epithelial integrity".

July 7 VIIIth International Conference on Myopia, Boston, MA. Invited Keynote Lecturer: "LASIK: Results, Limitations and Alternatives".

Sept 22 New England Ophthalmologic Society. 681st Meeting, Boston, MA. Program Moderator: "Refractive Surgery for the Comprehensive Ophthalmologist".

Oct 20-21 World Refractive Surgery Symposium. Dallas, TX. Invited Paper: "Management of Irregular Astigmatism after LASIK". Moderator of session on "Irregular Astigmatism after LASIK".

Refractive Surgery Interest Group. Specialty Days Symposium. Moderator of session on "Correction of Presbyopia".

Oct 22 –25 Annual Meeting of the American Academy of Ophthalmology. Dallas, TX. Discussant of free paper by Leyland et al. "A Prospective, Randomized Trial of Bilateral Implantation of Multifocal, Bifocal and Monofocal Intraocular Lenses". Coauthor, free paper by Brint et al. "Summit Apex Plus Multi-site Clinical Investigation of Hyperopic Astigmatic LASIK". Instructor, Courses: "The Surgical Management of the Malpositioned Intraocular Lens", "Clinical Decisions in the Management of Complications of Cataract and IOL Surgery", and "A Video Symposium of Challenging Cases and the Management of Intraoperative Complications during Cataract Surgery".

Dec 15 New England Ophthalmologic Society, Boston, MA. Invited paper on "Phacoemulsification of the 4+ Nucleus".

2001:

March 12-17 Wilmer Eye Institute, Johns Hopkins University. Current Concepts in Ophthalmology. Vail, CO. Lectures on "Computer controlled fluidics in phaco", "Phaco chop of the nucleus"; "Avoidance and Management of Macro and Microstriae"; "Minimizing Optical performance of the Array Multifocal IOL".

March 28 North Shore Long Island Jewish Health System. Westbury, New York. Clinical Day in Ophthalmology. Lectures on "Hyperopic Refractive Options" and "Is Wavefront Technology Ready for Prime Time".

April 28-
May 2

ASCRS Symposium on Cataract, IOL and Refractive Surgery. San Diego, CA. Presentations: "PTK for Persistent Visually Disabling Microstriae after LASIK"; "Unexplained Inflammation and Uncontrolled IOP after Uneventful Phacoemulsification"; "Phaco Tip Design with The Sovereign Phaco System"; "Management of Macrostriae and Microstriae". Course Instructor: "Phacoemulsification in Difficult and Challenging Cases (Senior Instructor, I. Howard Fine, M.D.)"; "LASIK – When the Going Gets Tough (Senior Instructor, Burjour P. Banaji, M.D.)"; "Care and Maintenance of the Microkeratome (Senior

Instructor, April White, COT)". Film Festival Presentation: "Soaking, Stretching, and Stamping Out Striae" (Producer: Roger F. Steinert, MD; Co-producers: Anil Swami, MD and April White, COT). Winner of First Prize "Oscar" Award in category of Refractive Surgery".

- May 20-23 American Ophthalmological Society. 137th Annual Meeting. The Homestead, Hot Springs, VA. Discussant of paper by Asbell et al. "Twelve Month Stability of Hyperopic Correction with Conductive Keratoplasty".
- June 1 New England Ophthalmological Society Meeting. Boston, MA. Invited paper: "Current Status of the Multifocal IOL". Participant in Refractive Surgery Subspecialty Session; Lecture on "Management of Flap Striae"
- Nov 9-10 Subspecialty Days: Refractive Surgery Meeting, New Orleans, LA. Presentation on "Monovision". Moderator of Panel on Presbyopia Correction. Luncheon Discussion Group Leader on topic of LASIK Techniques (November 9) and LASEK (November 10).
- Nov 11-14 Annual Meeting of American Academy of Ophthalmology, New Orleans, LA. Invited Presentations on: "Management of Striae", and "Management of Astigmatism in Cataract Surgery". Discussant of two free papers (Dr. A. Ysido and Dr. R. Maloney). Associate Instructor, Course 111, "A Video Symposium of Challenging Cases and the Management of Intraoperative Complications During Cataract Surgery"; Course 529, "Clinical Decisions in the Management of Complications of Cataract and IOL Surgery"; Course 468, "The Surgical Management of the Malpositioned Intraocular Lens"; and JCAHPO Course on "Care of the Microkeratome". Panelist on Symposium: "Cataract Surgery: Living on the Edge".
- Nov 17 XXIII Inter-American Course: An Advanced Course in Clinical Ophthalmology. Bascom Palmer Eye Institute, University of Miami, Miami, FL. Lectures on "Converting to Phaco Chop"; "Phacoemulsification of the Rock Hard Nucleus"; "Managing Flap Striae after LASIK"; and "Waiting for Wavefront".

2002:

- Jan 20-25 Hawaiian Eye Meeting, Waikoloa, HI. Presentations on "Avoidance and Management of Striae" and "Understanding Computer-Modulated Phacoemulsification"

- Feb 1-4 Wilmer Eye Institute, Johns Hopkins University, Current Concepts in Ophthalmology, Dorado, Puerto Rico. Lectures on "Healon V: Successful Use in Phaco"; "Healon V: Advanced Applications", "Advances in Computer-modulated Ultrasonics in Phaco with the Allergan Sovereign Unit", "Management of Flap Striae after LASIK"; "Making Sense out of Wavefront".
- March 11-15 Wilmer Eye Institute, Johns Hopkins University, "Current Concepts in Ophthalmology", Vail, Colorado. Lectures on "Monovision and LASIK"; "Management of Flap Striae"; "Axis Error in Laser Vision Correction"; "Advances in Phaco Technology with the Allergan WhiteStar"; "Special Applications of Healon V: To the Rescue!"; "Reducing Aberrations and PC Opacity with the Clariflex Optiedge". Participation in presentation of Complicated Cases and discussion by Faculty.
- May 3-4 Cole Eye Institute, Cleveland Clinic, Cleveland, OH. Guest Speaker at the Annual Symposium: Advances in Cataract, Cornea and Keratorefractive Surgery. Presentations on "Minimalistic Phacoemulsification", "Refractive Surgery following Penetrating Keratoplasty"; "Wavefront Aberrometry", and "Optimizing the Flap after LASIK".
- June 1-5 ASCRS Annual Symposium on Cataract, IOL, and Refractive Surgery. Philadelphia, PA. Paper presentations: "In vitro measurement of cavitation energy using the Sovereign system with and without WhiteStar"; "Treatment of LASIK flap microstriae with phototherapeutic keratectomy". Debater in Refractive Surgery Hallway Controversy with the position of "Physicians should not be allowed to have a financial interest in the technology they are investigating for FDA approval". Presenter of lectures on "Primary Applications of Custom-contoured Ablation Patterns", and "Phacoemulsification of the Rock Hard Nucleus. Panelist for LASIK Complications symposium and Wavefront Technology symposium.
- June 14 Guest of Honor. Yale Spring Symposium and Alumni Day, New Haven, CT. Lectures on "The Surgical Challenges of Presbyopia" and "Understanding Wavefront Technology".
- Aug 16-18 Stanford University Medical Center, Department of Ophthalmology, VisionQuest 2002 Meeting. San Francisco, CA. Invited Faculty. Presentations on "Monovision", "Management of Flap Striae", "Marketing of LASIK in an

Academic Setting”, as well as presentations of case complications.

Sept 21-22 11th Annual Ocular Surgery New Symposium, New York, NY. Paper presentations on “Computer modulated ultrasonics”, Phaco of the 4+ Nucleus”, and “Phototherapeutic Keratectomy treatment of chronic map striae after LASIK”.

Oct 18-23 American Academy of Ophthalmology Annual Meeting, Orlando, FL. Refractive Surgery Subspecialty Day invited presentation on “Flap Striae and Wrinkles”. International Society of Refractive Surgery Sub-meeting. Presentations on “Treatment of Macro and Microstriae” and “Malposition During LASIK”. EyeWorld Symposium Presentation: “Results of VISX C-CAP”. AMO Symposium Presentation: “White Star versus Non White Star Bimanual Phaco”. Symposium on Cataract Surgery. Invited Presentation on “Mature Cataract”. Instructor in Courses: Course 323: “Cataract Complications”; Course 432, “A Video Symposium of Challenging Cases and the Management of Intraoperative Complications During Cataract Surgery”; Course 583: “The Surgical Management of the Malpositioned Intraocular Lens”; Course 634: “LEO Clinical Update course on Cataract”.

Nov 2-3 Excellence in LASIK. Course Instructor, New York Eye and Ear Infirmary, New York, NY. Presentations on “Tracking, Registration, and Centration in Laser Vision Correction”, and “Prevention and Management of LASIK Flap Striae”.

Nov 15 New England Ophthalmological Society. Invited Speaker: Surgical Challenges of Presbyopia”.

2003:

Jan 19-24 Royal Hawaiian Eye Meeting, Waikoloa, HI. Presentations on “Phaco of the 4+ Nucleus”, “Results of Sutured PC IOLs” and “Results of Monovision”.

Jan 30-
Feb 3 Current Concepts in Ophthalmology/Wilmer Eye Institute/ASCRS, Dorado, Puerto Rico. Lectures on “Phaco of the 4+ Nucleus”, “PTK for Stria”, and” Understanding Wavefront”. Panelist on discussions of Risk Management and Refractive Surgery Marketing.

March 16-21 Current Concepts in Ophthalmology Meeting, Johns Hopkins/Wilmer Eye Institute, Vail, CO. Lectures on

- “Bimanual Phaco with White Star”, “Phaco Chop of the 4+ Nucleus”, “Rotational Positioning during LASIK”, “Alcon CustomCornea Results”, “PTK for Flap Striae after LASIK”. Instructor in workshop on “Wavefront Technology”.
- April 3-5 Bascom Palmer Eye Institute, Aspen, Co. “New Horizons in Ophthalmology”. Guest Lecturer. Presentations on “Options for Post-Keratoplasty Astigmatism”; “Theory and Results of WhiteStar Phaco”; and “Surgical Options for Presbyopia”.
- April 10-16 Annual Meeting of the American Society of Cataract and Refractive Surgery, San Francisco, CA. Paper presentations on “The Effect of Rotational Malposition on Wavefront-guided Correction of High Order Aberrations” and “Thermal and Turbulence Studies comparing WhiteStar and Conventional Phacoemulsification”.(Won Best Paper of Session Award). Instructor in courses on “Bimanual Phacoemulsification” and “Difficult and Challenging Cataract Surgery”. Panelist in live refractive cataract surgery course. Presented Educational videotape titled “Dr. Zernicke’s View of the World” (Winner of the Film Festival Grand Prize).
- June 1 Cleveland Clinic Customized Corneal Correction Congress, Cole Eye Institute, Cleveland Clinic Foundation, Cleveland, Ohio. Invited lectures on “Robust Eye Tracking” and “CustomCorneal Economics”. Moderator of section on “CustomCornea Made Easy”.
- Sept 5-10 European Society of Cataract and Refractive Surgery, Munich, Germany. Presentation of papers on “Turbulence and Thermal Energy Studies with White Star” and “Impact of Rotational Malposition on Wavefront Correction”. Winner of Second Place Award for Best Film in Category of “New Technology” video entitled “Dr. Zernicke’s View of the World”.
- Sept 20-21 Ocular Surgery News Symposium, New York City. Lecture on “Studies of Turbulence and Thermal Energy with White Star: Invited panelist on “New Techniques and Innovations for 2003”. Workshop Instructor on “Bimanual Phacoemulsification”.
- Nov 14-18 American Academy of Ophthalmology Annual Meeting, Anaheim, CA. Invited lecture on “Management of Flap Stria” a combined AAO/ISRS Meeting. Lecture on “The Importance of Measuring Peripheral Wavefront Aberrations”. Course Instructor, Lifetime Education for Ophthalmologists, (LEO). Lectures on “Phaco Chop”; “White Star Technology”; “Phacoemulsification of the 4+ Nuclear Sclerotic Cataract” and “Posterior Capsular Rupture and Vitreous Loss”. Course Instructor, Course on “Malpositioned IOL”; Course Instructor in “Complicated and Challenging Cataract Surgery”, Course Instructor, Course on “Cataract

Complications”, Course Instructor, “Avoidance and Management of Stria”. Invited lecturer on “Scleral Sutured PC IOLs” in symposia on pseudophakia.

Nov 22 Refractive Excellence Course, New York Eye and Ear Infirmary. New York, NY. Lectures on “Avoidance and Management of Flap Stria” and “Understanding Tracking and Registration”.

Dec 12 New England Ophthalmologic Society, Boston, MA. Invited Lectures on “Surface Enhancement after LASIK: Invading No Man’s Land” (Physician’s Program) and “Understanding Wavefront Technology” (Nurses and Technicians’ Program)”.

2004:

January 22 University of California, Irvine. Invited special lecture entitled “Understanding Wavefront”.

Jan25-30 Royal Hawaiian Eye Meeting, Kauai, Hawaii. Section Moderator, “Advances in Cataract surgery and Intraocular Lenses”. Paper Presentations: “Bimanual small incision phaco techniques with White Star” and “The Importance of Registration in Wavefront-guided CustomCornea Corrections”. Discussion panel participant in “Cataract surgery complications panel” and “What’s new in ophthalmology?” Course Faculty: “Workshop in Bimanual Phacoemulsification” and “Advances in CustomCornea laser vision correction”.

February 11 Visiting Professor, Wills Eye Hospital, Philadelphia, PA. Lectures on “Wavefront Technology and Laser Vision Correction” and “Surgical correction of presbyopia”.

February 20 Bascom Palmer Eye Institute, Miami, FL. Lectures on “Thermal and Turbulent Studies with White Star”. “Treatment of Presbyopia: Monovision versus Multifocal IOL”. “Pearls for Managing Mature Cataracts”. Panel discussion, Symposium on Challenging Cataract Cases.

Feb 21-23 Johns Hopkins Medical School, Wilmer Eye Institute. Current Concepts in Ophthalmology, Durado, Puerto Rico. Lectures on “Understanding Wavefront”, “The Importance of Registration in Wavefront-Guided Laser Vision Correction”, “Results of CustomCornea Enhancements”, “Importance of Pupil Size in Wavefront Analysis” and “Late Dislocating IOLs in Pseudoexfoliation Syndrome”.

March 15-19 Wilmer Eye Institute, Johns Hopkins Medical School. Current Concepts in Ophthalmology, Vail, Colorado. Presentations on “Bimanual Ultra Small Incision Phaco with White Star”, “Management of Subluxating In-The-Bag IOLs in Pseudoexfoliation Eyes”, and “Techniques for Trans-Scleral Sutured PC IOLs”, “Importance of Registration and Pupil

Size in Wavefront-Guided LASIK”, and “Results of Enhancements Performed with Wavefront-Guided Ablation”.

April 27-
May 5

Annual Symposium, American Society of Cataract and Refractive Surgery, San Diego CA. Program Co-Chair. Presented Binkhorst Lecture: “The Pursuit of Perfect Vision: Ophthalmology’s Holy Grail?” Film Festival Judge. Papers presented on “In-vivo Thermal Imaging during Cataract Surgery” and “Peripheral Wavefront Aberrations”. Participant in Challenge Cup on Cataract Surgery. Moderator of “Clinical Carry-Out”. Course Principal Instructor on “Microincision Cataract Surgery” and instructor in “Phaco in Difficult and Challenging Cases”

May 23-26

American Ophthalmological Society, Hot Springs, VA. Discussion of “Light Adjustable Lens: Development of Clinical Nomograms” by Daniel M. Schwartz.

Oct 22-26

American Academy of Ophthalmology, New Orleans, Louisiana, Subspecialty Day/International Refractive Surgery: Science and Practice Session. Panel discussion participant “Trends in Refractive Surgery” and free paper presentation “Refractive Error and Wavefront Analysis Comparison for Custom Cornea Lasik Enhancements”. Symposium Presentations: “Bimanual Microincision Phaco: What are the Advantages?”, and panelist in “Cataract Surgery: Living on the Edge”. Free paper discussion: Discussion of Carones et al “Clinical Evaluation of the Pseudoaccommodative ReSTORE IOL to Correct Presbyopia in Refractive Lens Exchange.” Course instructor in “LEO Clinical Update Course on Cataract”, “Medical-Surgical Management of the Malpositioned Intraocular Lens”, “A Video Symposium The Challenging Cases and the Management of Intraoperative Complications during Cataract Surgery”, “Effective Approaches to Teaching and Learning Surgery in Ophthalmology”, and “Current Topics in Refractive Surgery: Highlights of the BCSC 14”.

Nov 19

New England Ophthalmological Society, Boston, MA. Lecture on “New techniques and technology for complicated cataract surgery”.

December 2

University of California, San Francisco. Visiting Professor Lecture on “Understanding and Applying Wavefront Technology.” Discussant of Grand Rounds and Resident presentations. Resident lectures on cataract surgical techniques.

2005:

Jan 16-21

Hawaiian Eye Meeting, Kona, Hawaii. Lectures on: “In-vivo thermal studies with micropulse phaco”, “Wavefront-guided enhancements” and “Understanding wavefront optics”.

- January 28 IntraLase Course, Uniondale, Long Island, NY. Lecture on "The Science of LASIK".
- Feb 19-20 Ocular Drug and Surgical Therapy Update, Dana Point, CA. Keynote presentation: "Cataract Surgery Update". Workshop Co-Director, "Refractive Surgery". Workshop instructor, "Cataract Surgery".
- February 25 IntraLase Course, Miami, FL. Keynote talk: "The Science of LASIK".
- March 21-25 Wilmer Institute, Johns Hopkins University, Current Concepts in Ophthalmology Meeting, Vail, CO. Presentations on: "Wavefront-guided enhancements", "Why I use IntraLase", Microincision Cataract Surgery: "Why Now?", "New Technology for Complicated Cataracts", and "Late Dislocating IOLs in Pseudoexfoliation Syndrome".
- April 13-14 World Cornea Congress, Washington, DC. Paper presentation: "Shaped Penetrating Keratoplasty Utilizing the Femtosecond Laser."
- April 15-20 ASCRS Symposium and Congress, Washington, DC. Incoming presidential address. Moderator of Opening Session, moderator of General Session including the Kraff Lectures in Medicine and Science, and moderator of the Innovator's Session. Co-moderator of the Challenge Cup Film Festival judge. Scientific paper presentations: "Ex vivo Comparisons of Turbulence in Fluid-based and Ultrasonic Cataract Surgical Systems" and "Challenges of Tracking and Registration: Options for Future Technology". The Richard L. Lindstrom, M.D. Lecture: Wavefront-Guided Therapeutic PRK and LASIK: Potential and Challenges". Senior instructor: Course on "Bimanual Micro Phaco Cataract Surgery." Co-instructor in courses on "Issues in Wavefront Technology for Refractive Corneal Surgery" and "Phacomulsification in Difficult and Challenging Cases".
- May 1-5 Association for Research in Vision and Ophthalmology Annual Meeting. Poster presentation: "Shaped Keratoplasty Using a Femtosecond Laser", with co-authors Theresa Ignacio, Melvin Saraybo and Ronald Kurtz.
- May 21-24 American Ophthalmological Society Annual Meeting. The Cloister, Sea Island, GA. Opening Discussant of paper by Erie, JC and Bourne, WM: Long-term Corneal Keratocyte Deficits after PRK and LASIK.
- July 27 Invited speaker, Fifth Annual Resident Research Symposium, Department of Ophthalmology, Loma Linda University School of Medicine. Presentation title "Studies in Therapeutic Applications of Laser Technology.

- Aug 18-22 Guest of honor, Australasian Society of Cataract and Refractive Surgery, Queenstown, New Zealand. Lectures on "Microincision Cataract Surgery: Why Better? Why Now?" and "New LASIK Technology: Femtosecond Lasers, Registration Technology, and Fourier vs Zernicke". Panel discussion "Ask the Experts." Film festival judge.
- Sept 10-13 European Society of Cataract and Refractive Surgery, Lisbon, Portugal. Principal Instructor, course on "Bimanual Microincision cataract surgery". Instructor, course on "Corneal surgery with the femtosecond laser".
- Sept 16-18 Ocular Surgery Symposium, New York City. Lectures on "Phacoemulsification of the 4+ Rock-Hard Nucleus" and "therapeutic Excimer Laser Treatments." Panel discussion and case presentations in challenging cataract surgery.
- Oct 14-18 Annual Meeting of the American Academy of Ophthalmology, Chicago, IL. Refractive Surgery Sub-specialty Days: Presentation: "Point-Counterpoint: Zernicke Polynomials are Adequate"; Panel discussion: Corneal Refractive Surgery. Breakfast CME meetings: Moderator of Ophthalmology Management meeting on Advances in Cataract Surgery, with presentation on "Microincision Cataract Surgery: Why Now?" and moderator and presenter at CME Breakfast Meeting: Advanced LASIK and Corneal Surgery, with presentation on "Penetrating Keratoplasty with the Femtosecond Laser". Chair of symposium: "Challenging Cases in Refractive Surgery" and presenter in debate. Panelist in symposium "Cataract Surgery: Living on the Edge", lecture to American Society of Ophthalmic Registered Nurses (ASORN): "Bimanual Microincision Phakoemulsification". Presenter in symposium "Spotlight on Cataract Surgery: Phacoemulsification of the Rock Hard Nucleus." Presenter in symposium sponsored by AUPO: "Tried and True Methods of Teaching Cataract Surgery". Course instructor in the following courses: "Highlights of the BCSC Refractive Surgery Course", course on "Malpositioned Intraocular Lenses" and course on "Video Symposium of Difficult and Challenging Cases in Cataract Surgery". Panelist in symposium "Ultimate Grand Rounds in Refractive Surgery".
- Nov 1-10 Fyodorov Institutes, Moscow and St. Petersburg, Russia. Annual Meeting Guest of Honor. Lectures on "The Challenge of Therapeutic Applications of the Excimer Laser" and "Microincision Cataract Surgery: Why Now?"

2006

- Jan 15-20 Hawaiian Eye Meeting, Maui, HI. Moderator of session on "New Techniques and Technologies in Cataract Surgery and Intraocular Lenses". MD session paper presentations on "Optimizing Phaco Power", Presbyopia-Correcting Cataract Surgery: Where Are We?", and "Therapeutic Refractive

Laser Ablation.” Panelist: “What’s New in Anterior Segment Surgical Technology” Nurse and technician session presentation on “Correction of Presbyopia.” Luncheon symposium presentation: “Challenges of therapeutic ablation and custom enhancements.”

Feb 18-19 Ocular Drug and Surgical Therapy Update, Dana Point, CA. Moderator of Session 2 “Dry Eye/ Anti-Infectives/ Anti-Inflammatory/ Allergy”. Chairperson, Course on “Cataract Surgery”. Faculty, course on “Cataract Surgical Complications”

March 12-13 Wilmer Eye Institute Current Concepts in Ophthalmology, Vail CO. Lectures on “Phaco of the 4+ Nucleus”, “Understanding Micropulse Phaco”, “Managing IFIS”, and “Challenges in Pseudoexfoliation”

March 16 IntraLase User Group Meeting. Panelist on Therapeutic Keratoplasty. Paper on “IntraLase Therapeutic Keratoplasty”

March 17-21 Annual Symposium of the American Society of Cataract and Refractive Surgery. President and Program Chair. Outgoing President Address. Free papers: Comparison of Degradation and Calcification in Hydrophilic Acrylic, Hydrophobic Acrylic, and Silicone IOLs Using a Rabbit Model”, “Surgical performance of the WhiteStar ICE System: Multisite Clinical Study.” Course Faculty: “Phacoemulsification in Difficult and Challenging Cases” and “Corneal Surgery with the Femtosecond Laser”. Symposium presenter: “Refractive Surgical Complications: PTK for Microstriae”. Moderator of “Challenge Cup”. Course Director: “Femtosecond laser therapeutic keratoplasty” Presentation on “Femtosecond penetrating keratoplasty: Theory into Practice” Presentation at Corneal Imaging Course: “Innovative Anterior Segment Applications of the Visante OCT”

April 30-
May 4 Association for Research in Vision and Ophthalmology, Fort Lauderdale, Fl. Poster Presentations: Johnson DG, Steinert RF, Cunanan CM “*In vitro* and *in vivo* evaluation of the effect of mechanical microkeratome flaps and intracorneal inlays on intraocular pressure (IOP) measurements”; Steinert RF, Price F, Culbertson W, Yoo S, Alfonso E, Sarayba M. “Initial Results of Penetrating Keratoplasty Using the Femtosecond Laser”; Brady DG, Gwon A, Steinert RF, Woods RL, Gruber L, Jain R. “Lens Capsule Elasticity in Aphakia”; Jain R, Steinert RF “Predicting Ocular Biomaterial Calcification in a Subcutaneous Implantation Model”.

Aug 9-12 American Society of Cataract and Refractive Surgery summer refractive symposium, Boston MA. Invited Keynote lectures on “Therapeutic applications on laser technologies” and “Corneal inlays for presbyopia”. Case presentation on

“Management of presbyopia in a post-operative LASIK patient”.

Sept 9-12 XXIV Congress of the European Society of Cataract and Refractive Surgery; London, United Kingdom. Free paper presentations on “Femtosecond laser corneal transplantation” and “A single-use injector for foldable IOLs.” Electronic poster presentation on “A model for evaluation of calcification in hydrophilic IOLs”. Chairperson, free paper session on IOLs. Instructor in course “corneal surgery with the IntraLase femtosecond laser”. Moderator and speaker at IntraLase satellite symposium.

Nov 10-14 American Academy of Ophthalmology, Las Vegas, Nevada. Subspecialty Day: Free paper: “Current Results with the Femtosecond Laser Penetrating Keratoplasty.” Co-author: Free paper: “Use of the Femtosecond Laser to Perform Penetrating Keratoplasty with Custom Overlapping Incision Shapes: Results in the First Human Cases.” Symposium organizer, chair, and presenter: “Challenges and Controversies in Cataract Surgery.” Spotlight Sessions: Spotlight on Pseudophakic IOLs 2006: Where are we now? Where are we going? Invited presentation on: “No Capsule Fixation- Anterior Chamber vs. Sutured Posterior Chamber IOLs.” Spotlight on Cornea: New Innovations in Corneal Surgery. Invited presentation on: “Femtosecond Laser Corneal Surgery.” Spotlight on Management of Presbyopia. Invited presentation on “ReVision Inlay: Current Status.” Panelist in symposium on Cataract Surgery: Living on the Edge. Course Instructor: Course 348: “A Video Symposium of Challenging Cases and the Management of Intraoperative Complications during Cataract Surgery.” Course 695: “Clinical Decisions in the Management of Complications of Cataract and IOL Surgery.” Course 308: “Corneal Surgery with the IntraLase Femtosecond Laser.”

2007

Jan 13 Subspecialty Saturday, Hawaiian Eye 2007. Course director “Femtosecond laser corneal transplantation.” Paper presentations on: “Femtosecond laser corneal transplantation: why make it more complicated?” and “Results of zig-zag pattern penetrating keratoplasty”

Jan 14-19 Hawaiian Eye 2007, Kauai, HI. Moderator of Monday session on “New techniques and technologies in cataract surgery and intraocular lenses”. Presentation of lectures on “Steps to prevent Endophthalmitis” and “The challenge of therapeutic laser keratoplasty”.

- Feb 1-4 Johns Hopkins Wilmer Eye Institute/ASCRS 29th Annual Current Concepts in Ophthalmology, St. James, Jamaica. Lectures on “Maximizing IOL optical performance with aspheric optics”, “Laser corneal transplantation”, and “Results with multifocal and accommodating IOLs”. Session chair, “Anterior Segment Papers”.
- Feb 17-18 Ocular Drug, Surgical, and Therapy Update, Monarch Beach, CA. Invited lecture on “Results with multifocal and accommodating IOLs”. Workshop leader, session on “Cataract surgery and complications”.
- March 12-16 Johns Hopkins Wilmer Eye Institute, Current Concepts in Ophthalmology, Vail, CO. Lectures on “Aspheric IOLs”, “Multifocal and accommodating IOLs”, “Therapeutic applications of the excimer laser”, and “Laser penetrating keratoplasty”.
- April 12-14 American Society for Lasers in Medicine and Surgery, Dallas TX. Chair of Ophthalmology Section. Presentation on “Results of Zig-Zag Femtosecond Laser Incisions for Penetrating Keratoplasty.”
- April 27-May 2 Annual Symposium, American Society of Cataract and Refractive Surgery, San Diego CA. Program Chair. Free paper presentations: *Subspecialty Cornea Day* “Results of Femtosecond laser cornea transplantation”; *Main sessions*: “Objective measures of OVD physical characteristics and clinical performance” and “Results of zig-zag shaped femtosecond laser cornea transplantation.” Invited symposium presentation: “Presbyopia IOL Complications.” Runner-up award in Film Festival for “Femtosecond laser cornea transplantation.” Course instructor: “Refractive Surgery Nightmares” and “Clinical Applications of the Femtosecond Laser.”
- May 6-10 Association for Research in Vision and Ophthalmology, Fort Lauderdale FL. Poster first author: Results of Zig-Zag Femtosecond Laser Incision for Penetrating Keratoplasty” (with Marjan Farid MD and Matthew Kim MD). Co-author: “Correlation between physico-chemical parameters and performance of ophthalmic viscosurgical devices (OVDs) during cataract surgery in animal eyes”; “Mechanics of the capsular bag and zonules in rabbit and human donor eye: a comparative study”; and “Detection of corneal fibrosis

following excimer laser surface ablation (PRK) using second-harmonic generated (SHG) signals.

- June 16 Superior Outcomes Through Refractive and Cataract Education (SOURCE) meeting, Atlanta GA. Program Chair. Presentations on “Strategies for Mixing and Matching Presbyopia IOLs,” “CTRs and Pseudoexfoliation,” and “Astigmatism and LRIs.” Case presentation on “Displaced Presbyopia IOL and Pupil.”
- June 21-24 Canadian Ophthalmological Society Annual Meeting, Montreal CA. Guest of Honor. Lectures on “Femtosecond Laser Penetrating Keratoplasty,” “The Promise and Challenge of Excimer Laser Corneal Therapeutics,” and “Anterior Segment OCT.” Panel discussant on Challenging Cornea Cases.
- Sept 8-10 XXV Congress of the European Society of Cataract and Refractive Surgery, Stockholm. Free paper presentations on “Optimizing LASIK for the myopic presbyope” and “Femtosecond laser corneal transplantation with a zig-zag pattern.” Video festival presentation: “Femtosecond laser-assisted penetrating keratoplasty” (winner of 1st prize in Innovation category).
- Sept 11-12 Harvard/Massachusetts Eye and Ear Infirmary, Boston MA. Visiting Professor. Resident interactive session on “Anterior Segment OCT Imaging Case presentations.” 1st Annual Murphy/Chylack Lectureship: “Presbyopia IOLs: Promise, Peril, and Problem Solving.”
- Sept 15 Superior Outcomes Through Refractive and Cataract Education (SOURCE) meeting, New York City. Presentations on “Postop Problem Solving with Presbyopia IOLs”, “CTRs and Pseudoexfoliation”, “Iris Prolapse”, and case presentation “Problem Pupil, Problem IOL, or Both?”
- Sept 20 Utah Ophthalmology Society, Salt Lake City, UT. Guest of Honor. Lecture: “Presbyopia IOLs: Promise, Peril, and Problem Solving.”
- Sept 21 Moran Eye Institute, University of Colorado, Salt Lake City, UT. Clinical Faculty Day Guest of Honor. Lecture: “Femtosecond Laser Penetrating Keratoplasty.”
- Sept 26-29 Asia Pacific Cataract and Refractive Society 20th Annual Meeting, Hanoi, Vietnam. Invited Guest Speaker. Lectures on “Toward zero aberrations in IOLs,” “Femtosecond laser

penetrating keratoplasty,” “Multifocal IOLs: Cure or Crisis?” and “New phaco technology.”

- Oct 12-13 25th Biennial Cornea Research Conference, Boston MA. Invited presentation on “Femtosecond Laser Enabled Corneal Transplantation.”
- Oct 19 11th Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine, Denver CO. Lectures on “Femtosecond Laser Corneal Transplantation,” “Principles and Optics of Presbyopia IOLs,” and “Problem Solving with Presbyopia IOLs.”
- Oct 25 Eye Rounds: State of the Art Management of Chronic Dry Eye, Costa Mesa CA
- Noy 9-13 Annual Meeting, American Academy of Ophthalmology. Cornea Society free paper “Femtosecond Laser Penetrating Keratoplasty.” Refractive Subspecialty Days, Panel leader and Discussant on “LASIK Complications” and free paper presentation, “Results of Zig-Zag Laser Penetrating Keratoplasty.” Principle Meeting: Free paper co-author, with Marjan Farid MD presenter “Results of Zig-Zag Penetrating Keratoplasty”, panelist in “Living on the Edge”, discussant of papers on endophthalmitis, Symposium organizer and co-moderator, “Management of Intraoperative Complications”, presenter on “Dislocated and Malpositioned IOLs”, course instructor in “Clinical decisions in the management of cataract and IOL surgery”, “A video symposium of challenging cases and the management of intraocular complications during cataract surgery”, and “Corneal surgery with the femtosecond laser.” Presentations at pre and post-session non-CME events: “Zig-zag laser penetrating keratoplasty”, “The Pentacam in cataract and IOL surgery”, “Translational ultrasound in cataract surgery”, and “Presbyopia IOL Surgery: Partner with the Patient.”

2008

- Jan 20-25 Hawaiian Eye 2008, Waikoloa, HI. Lectures on “Problem Solving with Presbyopia IOLs”, “No Capsule Fixation: Anterior Chamber vs Sutured PC IOL”, and “Femtosecond Zig-Zag Cornea Transplant Results”. Member, Program Committee. Moderator of “Mini-Symposium: Managing Vitreous Loss”.

- Mar 2 20th Annual Postgraduate Convention, Loma Linda University Health Care, Loma Linda, CA. Lectures on “Femtosecond Laser Applications in Corneal Surgery”, “Presbyopia Correcting IOLs”, and “Innovations in Ocular Imaging”.
- Mar 10-14 25th Annual Current Concepts in Ophthalmology, Wilmer Ophthalmological Institute at Johns Hopkins, Vail CO. Lectures on “Problem Solving with Presbyopia IOLs”, Challenges in Excimer Laser Optical Therapeutics”, “Femtosecond Laser Cornea Transplantation”, New Technology in Phacoemulsification Machines”, and “Anterior Segment OCT”.
- Mar 22 Illinois Eye Review, University of Illinois, Chicago. Instructional course on Lens/Refractive Current Concepts.
- Mar 29-30 New Horizons in Ophthalmology, Bascom Palmer Eye Institute, Aspen CO. Lectures on “Femtosecond Penetrating Keratoplasty”, “Problem Solving with Presbyopia IOLs” and “LASIK vs. Surface Ablation”.
- Apr 4-9 American Society of Cataract Refractive Surgery Annual Meeting, Program Chair. Cornea Day presentation on “Comparative Results of Femtosecond Laser and Conventional Penetrating Keratoplasty”. Moderator, Symposium: “Around the World in 90 Minutes”. Presentation on “Presbyopia IOLs in the USA”. Co-author of presentations on “Comparison of Visual Recovery and Astigmatism in 24-Bite Running Penetrating Keratoplasty Performed with a Femtosecond Laser Zig-Zag Incision vs. Conventional Trephination” (presented by Marjan Farid, MD); Co-author of presentation on “Astigmatic Impact of Radial Alignment Marks in Penetrating Keratoplasty Performed with the Femtosecond Laser Using the Zig-Zag Incision” (presented by Amy Lin, MD). Discussant in symposium on “Hot Topics in Cornea and External Disease”; Co-author of presentation on “Comparison of Higher-order Corneal Aberrations: Conventional Penetrating Keratoplasty vs. Femtosecond Laser Keratoplasty vs. DSEK” (presented by Nika Omid, MD); Co-author of paper on “Comparison of Posterior Corneal Wave Front Aberration Between Post-DSAEK, Post-Femtosecond PKP, and Normal Age-Matched Corneas” (presented by Winston Chamberlain, MD, PhD); Moderator of ASCRS Innovators Session; Moderator of ASCRS Challenge Cup Session; Co-instructor, course on “Intralase-enabled Keratoplasty: Current State of the Art and Comparison with Standard Keratoplasty Techniques”; Co-

instructor, course on “Intralase-Enabled Keratoplasty: What is Going On?”; Film Festival Educational Film Producer: “Dueling Transplants: DSEK vs. Femto PKP”; Panel Member, symposium on “X Rounds: Refractive Surgery to the Max”.

April 27-May 1 Association for Research in Vision and Ophthalmology, Ft Lauderdale Convention Center, Ft Lauderdale, FL. Poster Session Moderator. Posters co-authored: “Comparison of Visual Recovery and Astigmatism in 24-Bite Running Penetrating Keratoplasty Performed with a Femtosecond Laser Zig-Zag Incision vs. Conventional Trephination” (M. Farid, W. Chamberlain, A. Lin, RF Steinert); “Comparison of Posterior Corneal Wave Front Aberrations Between Post-DSEK, Post-Femtosecond Penetrating Keratoplasty, and Normal Age-Matched Corneas” (W. Chamberlain, M. Farid, A. Lin, N. Omid, RF Steinert); “Comparison of Higher-Order Corneal Aberrations: Conventional Penetrating Keratoplasty vs. Femtosecond Laser Keratoplasty vs. DSEK” (N. Omid, M. Farid, W. Chamberlain, A. Lin, RF Steinert); “Dose Effects of Mitomycin C (MMC) on Corneal Scarring and TGF β Induced Myofibroblast Differentiation (J.V. Jester, D. Brown, M. Farid, RF Steinert, A. Wahlert, D.W. Kim, L. Lam, C. Nien Shy).

Description of Teaching Awards Received:

- 1988 Honor Award for Institutional Contributions to Annual Program, American Academy of Ophthalmology.
- 1990 Lancaster Course in Basic and Clinical Science, Colby College, Waterville, Maine: Certificate of Appreciation for teaching contributions.
- 1992 Honoree, New England Ophthalmologic Society: “Ten Best Teachers from the Membership”.
- 1998 Senior Honor Award for Instructional Contributions to Annual Program, American Academy of Ophthalmology
- 1998 ASCRS Award: 1st Runner-Up ‘Oscar’ for instructional videotape on “Reconstructing the Iris”.
- 1999 ASCRS Award: 1st Runner-Up ‘Oscar’ for instructional videotape on “Optical Images from intraocular lenses”.
- 1999 “Best paper session” award at International Symposium on Cataract and Refractive Surgery, Seattle, WA.

- 2000 ASCRS Award: Winning ‘Oscar’ for instructional videotape on “Sleek Surface after LASIK: Supporting the Epithelium to Maximize Vision”.
- 2001 ASCRS Award: Winning ‘Oscar’ for instructional videotape on “Soaking, Stretching, & Stamping Out Striae”.
- 2001 “Best paper session” award for 2 separate presentations at International Symposium on Cataract and Refractive Surgery, San Diego, CA.
- 2001 American Board of Ophthalmology: Certificate of Appreciation for Service as Associate Examiner and Development of Examination Materials, 1987-2001
- 2003 ASCRS Grand Prize Award “Oscar” for instructional videotape “Dr. Zernicke’s View of the World”.
- 2007 ASCRS Film Festival Award “Oscar” for Runner-up in refractive surgery category entitled “Femtosecond laser penetrating keratoplasty.”
- 2007 ESCRS Video Festival Award First Place in Innovation category for “Femtosecond laser-assisted penetrating keratoplasty.”
- 2008 Academic Senate, University of California, Irvine, Distinguished Faculty Award for Teaching.

Patents:

1. US Patent No. 5,215,104 "Method for Corneal Modification"
Issued June 1, 1993
2. US Patent No. 5,451,230 "Cataract Disassembly"
Issued September 19, 1995
3. US Patent No. 5,505,724 "Epithelium Removal"
Issued April 9, 1996
4. US Patent No. 5,521,210 Elizabeth WoldeMussie, Roger F. Steinert and Guadalupe Ruiz, "Ophthalmic Use of Muscarinic Agonists Having Increased Duration of Activity".
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5. Australia Patent No. 697127 “Epithelium Removal”
Issued September 24, 1998
6. US Patent No. 6,019,755 “Epithelium Removal”
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7. US Patent No. 6,293,939 B1 “Epithelium Removal”
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8. US Patent No. 6,537,317 B1. Roger F. Steinert and Alan Lang
"Binocular Lens Systems"
Issued March 25, 2003
9. European Patent No. 0901344 "Epithelium Removal"
Issued November 26, 2003
10. German Patent No. 695322117 "Epithelium Removal"
Issued November 26, 2003
11. European Patent No. 0901344 "Epithelium Removal"
Issued May 24, 2004
12. Japan Patent No. 3759608 "Epithelium Removal"
Issued January 13, 2006
13. Canadian Letters Patent 2,186,379 "Epithelium Removal"

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Updated 07/29/08