

# **Curriculum Vitae/Resume**

**George O. Waring, III, MD, FACS, FRCOphth**

**(Revised August 17, 2010)**

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**George O. Waring III, MD, FACS, FRCOphth**

Clinical Professor of Ophthalmology, Emory University School of Medicine  
Atlanta, Georgia  
Private Practice, InView Refractive Surgery Center  
Atlanta, Georgia

**BRIEF BIOGRAPHY**

George O. Waring, III is an ophthalmic surgeon with 30 years of experience in vision correction surgery, RK, LASIK, intraocular lens implants and cataract and corneal surgery. He was born in Buffalo, New York, on February 21, 1941. He received his MD degree from Baylor Medical College, Houston, Texas. His ophthalmology training included a residency followed by a Heed Fellowship in corneal disease and surgery at the Wills Eye Hospital in Philadelphia. He is board certified by the American Board of Ophthalmology and is a Fellow of the American College of Surgeons (FACS), of the Royal College of Ophthalmology (FRCOphth, Britain), and of the American Academy of Ophthalmology.

Dr. Waring began his academic career in 1974 as Assistant Professor of Ophthalmology at the University of California, Davis, where he established the first eye bank in northern California. In 1979 he joined the faculty at Emory University, where he was a tenured Professor of Ophthalmology and Director of Refractive Surgery, until 2004; he is currently Clinical Professor of Ophthalmology at Emory. In his busy consulting practice in anterior ocular segment diseases and surgery, he has done approximately 1000 corneal transplants. He was a Founder and Managing Director of the privately owned Vision Correction Group (Emory Vision/InView Vision Center) from 1994-2004, where he has done more than 10,000 LASIK and other refractive procedures. He has trained over 50 Fellows in corneal and refractive surgery. Since 2004, he has practiced privately in Atlanta at the InView Center.

In 1992, he received a National Institutes of Health Fogarty International Scholars Award to do research in laser corneal surgery at Hotel Dieu Hospital, Paris, France. In 1993-95, he served as Chairman of the Department of Ophthalmology and Director of Research at the Al-Magrab Eye Hospital in Jeddah, Saudi Arabia where he helped develop LASIK. Dr. Waring is or has been a member of approximately 40 ophthalmological societies including the American Ophthalmological Society, International Society of Refractive Surgery, and the International Intraocular Implant Club. He has served on national and international Boards of Directors.

His research has included National Institutes of Health grants to study radial keratotomy (as National Director of the PERK Study) and excimer laser corneal surgery. He has received approximately 60 research grants. He presented the data to the US FDA that led to the first FDA-approved clinical excimer laser vision correction surgery in the United States. As the Principal Investigator of the Emory-sponsored investigations of LASIK, he received the first physician-sponsored investigational device exemption from the U.S. FDA.

Dr. Waring was Editor-in-Chief (from 1989 to 2010) of the **Journal of Refractive Surgery**, and has served on more than 20 other editorial boards, including the **American Journal of Ophthalmology**. He has published over 260 peer reviewed original articles, 70 book chapters, and 260 brief communications. His authoritative 1300-page textbooks, Refractive Keratotomy for Myopia and Astigmatism, and Corneal Disorders: Diagnosis and Management (with Howard Leibowitz, MD) are standard references.

The Waring Medal for Editorial excellence is awarded annually by the associate editors of the **Journal of Refractive Surgery** to an author publishing an outstanding paper in the previous year.

He has received professional awards including three American Academy of Ophthalmology Honor Awards (including its Life Achievement Honor Award in 2004), the Society of Heed Fellows Outstanding Ophthalmologist Award, an Honorary Medal from Ain Shams University in Cairo, Egypt, a Gold Medal from the 5th International Congress on Cataract and Refractive Surgery in Florence, Italy, two gold medals for contributions in international ophthalmology from the Pan Arab Council of Ophthalmology, the Castroviejo Medal from the Corneal Society, and the Lans and Barraquer and Kritzingler and Lifetime Achievement Awards from the International Society of Refractive Surgery. In 2008, he received the Weisenfeld Award from the Association for Research in Vision and Ophthalmology "for applying stringent scientific principles in his pioneering work". For the past 15 years, Dr. Waring has been listed frequently in the "Best Doctors in America," "Americas Top Doctors," in various "Who's Who" compellations, including "Marquis Who's Who in the World" in 2008.

He has spoken or demonstrated surgery at more than 600 ophthalmic meetings in approximately 60 countries on six continents. He has given over 35 named lectures at universities and professional societies. He has been active in public communication concerning ophthalmology and has appeared on Nightline with Ted Koppel, the McNeil/Lehrer News Hour, the ABC 20/20 News Show, Good Morning America, ABC Nightly News, and on CNN.

Dr. Waring serves as a Medical Consultant to multiple ophthalmic companies. He serves as an expert witness in medical malpractice cases – for both defendants and plaintiffs.

Dr. Waring enjoys sporting and outdoor activities, often with his four children. He plays squash weekly. He is an avid alpine snow skier, including frequent heliskiing in the Bugaboo Mountains of British Columbia (more than one million vertical feet of heliskiing). As a whitewater kayaker, he has boated the Grand Canyon of the Colorado River, the Zambezi River below Victoria Falls in Zimbabwe, and the Sun Kosi River in the Everest region of Nepal. He has mountain climbed in the Mont Blanc region of France, summited Mt. Kilimanjaro in Tanzania, climbed on the Matterhorn in Switzerland and Aconcagua in Argentina, and made a first-ascent of KangYaja (19,925 ft.) in the remote Dolpo region of the Nepali Himalaya (Rock & Ice, March/April, 1996; The American Alpine Journal 1996;38:274-278). He is also a DiveMaster in the Professional Association of Dive Instructors, diving extensively in the Red Sea, in Papua New Guinea, and with the great white sharks in South Africa. Multiple African safaris have been by land, on rivers, by walking, in hot air balloons, in game hunting reserves, and on horseback. Most summers he can be found bareboat sailing ---- somewhere. He was elected as a Fellow in the Explorer's Club in New York in March of 2001.

**CURRICULUM VITAE/RESUME****GEORGE O. WARING III, MD, FACS, FRCOphth****PERSONAL INFORMATION**

**PLACE OF BIRTH:** Buffalo, New York

**OFFICE ADDRESS:** 36 Willow Glen  
Atlanta, GA 30342  
Phone: 404-642-2848  
Facsimile: 770-552-1035  
Email Address: [drgeorge@georgewaring.com](mailto:drgeorge@georgewaring.com)  
[www.georgewaring.com](http://www.georgewaring.com)

**MARITAL STATUS:** Divorced  
Children: George Oral IV, MD, born 1971  
John Timothy, MD, born 1972  
Joy Ailene Harty, born 1973  
Matthew George, born 1997

**MEDICAL LICENSURE (current):** Georgia, 1979

**BOARD CERTIFIED:** American Board of Ophthalmology, 1975

**MAJOR FIELD OF INTEREST:** Ophthalmology: Refractive Surgery; Cataract and Corneal Surgery

## PROFESSIONAL AND EDUCATIONAL EXPERIENCE

### **GEORGE O. WARING, III, MD, PC, ATLANTA GEORGIA**

2004 – Present                      Private ophthalmic practice

### **EMORY UNIVERSITY SCHOOL OF MEDICINE, ATLANTA, GEORGIA**

2006-present                      Clinical Professor of Ophthalmology (non-tenured)  
 1983-2004                          Professor (tenured), Department of Ophthalmology, Director, Refractive Surgery  
 1979-1983                          Associate Professor, Dept. of Ophthalmology  
 1982-1992                          Affiliate Scientist, Division of Pathobiology and Immunobiology, Yerkes Regional  
    Primate Research Center  
    (Professional Leave of Absence, September, 1992-February, 1995)  
 1980.1984                          Member, Committee on Appointments and Promotions

### **VISION CORRECTION GROUP, ATLANTA, GEORGIA**

2001-present                      Founding Surgeon, InView Vision (2004, Emory Vision name changed to InView Vision)  
 1994-2001                          Managing Director, Emory Vision Correction Center

### **THE EMORY CLINIC, INC., ATLANTA, GEORGIA**

2002–2004                          Emory Clinic Employee  
 1982-2002                          Emory Clinic Partner  
    (Professional Leave of Absence, September, 1992-February, 1995)  
 1991-1993                          Member, Committee on International Health  
 1979-1982                          Staff Physician in Section of Ophthalmology

### **EL-MAGRABI EYE HOSPITAL AND MEDICAL CENTER, JEDDAH, SAUDI ARABIA**

Sept, 1992-Feb, 1995              Chairman, Department of Ophthalmology  
    Director, Research Department  
 Sept, 1992-Sept, 1993              Ain Shams University, Cairo, Egypt  
    Visiting Professor, Department of Ophthalmology

### **HOTEL DIEU HOSPITAL, DEPARTMENT OF OPHTHALMOLOGY, PARIS, FRANCE**

Jan-June, 1992                      U.S. National Institutes of Health – Fogarty Senior International Fellow  
    French Ministry of Research & Technology – Research Associate

### **UNIVERSITY OF CALIFORNIA SCHOOL OF MEDICINE, DAVIS, CALIFORNIA**

1979                                      Associate Professor, Department of Ophthalmology  
 1974-1979                          Assistant Professor, Department of Ophthalmology  
 1976.1979                          Chairman, Transplant Committee  
 1975.1979                          Surgical Director, Sacramento Valley Eye Bank, Sacramento, California

### **TRAINING**

1973.1974                          Heed Fellow in Corneal and External Disease, Peter Laibson, MD, Wills Eye Hospital and  
    Research Institute, Philadelphia, Pennsylvania

1973 (May)	Staff Physician, Hospital Ship Hope, Natal, Brazil
1970.1973	Resident, Wills Eye Hospital and Research Institute, Philadelphia, Pennsylvania
1968.1970	Senior Assistant Surgeon, Lieutenant, United States Public Health Service Indian Hospital, Winnebago, Nebraska
1967.1968	Rotating Internship, Ben Taub General Hospital, Houston, Texas
1963.1967	MD, Baylor Medical College, Houston, Texas
1959.1963	BS, Cum Laude, Wheaton College, Wheaton, Illinois

**POSTDOCTORAL FELLOWS SUPERVISED IN CORNEAL AND EXTERNAL OCULAR DISEASE**  
**TRAINING PROGRAM AT EMORY UNIVERSITY**  
**[subsequent position attained – selective individuals]**

- 1977-79**  
Marilyn Elkins, M.D. (Canada)
- 1978-80**  
Bruce I. Bodner, M.D.
- 1978-79**  
David Andrews, M.D. (Nova Scotia)
- 1980-81**  
Michael Insler, M.D.  
Karen Summers, M.D.  
Edward Rashid, M.D.
- 1981-82**  
Michael Lamensdorf, M.D.  
Albert Leveille, M.D.  
R. Doyle Stulting, M.D., PhD. [Tenured Professor of Ophthalmology, Emory University]
- 1982-83**  
Gabriel van Rij, M.D. (Visiting Scholar, Netherlands)\*, \*\* [Chairman, Dept of Ophthalmology, Gronigen; Rotterdam, Netherlands]  
F. Michael Cornell, M.D.  
Richard Hector, M.D.
- 1982-1984**  
Philip Newman, M.D.\*  
Alan M. Kozarsky, M.D.\*
- 1983-84**  
Tom Tooma, M.D.  
Woodford Van Meter, M.D., [Professor of Ophthalmology, Univ of Kentucky]  
Geoffrey Crawford, M.D. (Australia), [Associate Professor, Univ of Western Australia, Perth]
- 1984-85**  
Paul Glass, M.D.  
Jayne Weiss, M.D., [Professor of Ophthalmology and Pathology, Wayne State University, Detroit]  
Michael Brown, M.D.  
Gary Holland, M.D., [Professor of Ophthalmology, University of California, Los Angeles]
- 1984-86**  
Neil Dreizen, M.D.\*  
Randy Epstein, M.D.\*, [Professor of Ophthalmology, Rush Medical College, Chicago]
- 1985-86**  
Harold Climenhaga, M.D. (Canada), [Associate Clinical Professor, Univ of Alberta, Canada]  
Eric Vinokur, M.D.
- 1985-87**  
Linda Burk, M.D.\*  
John Seedor, M.D.\*, [Clinical Associate Professor of Ophthalmology, New York Eye and Ear Infirmary]
- 1986-87**  
David Harris, M.D., [Clinical Associate Professor of Ophthalmology, Univ of Tennessee, Knoxville]
- 1987-88**  
Silvino Diaz, M.D. (Puerto Rico)  
Geoffrey Sweeting, M.D. (Bahamas)  
Sadeer Hannush, M.D., [Assistant Professor of Ophthalmology, Thomas Jefferson Univ, Philadelphia]  
Edward Rashid, M.D. (Refractive Surgery)
- 1987-89**  
Francisco Fantes, M.D. (Venezuela), [Clinical Professor of Ophthalmology, Univ of Miami]
- 1987-91**

- Khalil Hanna, M.D. (Visiting Scholar, France)\*
- 1988**  
 Ignacio Pradera, M.D. – 3 months (Spain)  
 Therese Delpech, M.D. – 2 months (France)  
 Adel Shafik, M.D. – 2 months (Egypt)
- 1988-89**  
 Isabelle Brunette, M.D. (Canada), [Associate Professor of Ophthalmology, Univ of Montreal, Canada]
- 1988-90**  
 Stephen Bogan, M.D.\*  
 Osama Ibrahim, M.D. (Visiting Scholar, Egypt)\*,\*\* [Professor of Ophthalmology, Alexandria Univ, Egypt]
- 1988-91**  
 Keith P. Thompson, M.D.\*
- 1989**  
 Jose Guell, M.D. – 3 months (Spain)\*, [Associate Professor of Ophthalmology, Universitat of Autonomia de Barcelona, Spain; President, European Society of Cataract and Refractive Surgery]
- 1989-90**  
 James Rinne, M.D.\*  
 Bradley Bertram, M.D.  
 Tom Mader, M.D.
- 1989-91**  
 Robert K. Maloney, M.D.\*  
 Ray Gailitis, M.D.\*
- 1990**  
 Lorena Riveroll, M.D. – 3 months (Mexico)
- 1990-91**  
 Price Kloess, M.D.  
 Kerry Hagen, M.D.\*
- 1991**  
 Meng Yongan, M.D. – 6 months (China)
- 1991-92**  
 Samir J. Bechara, M.D. (Brazil)\*,\*\*  
 Robert Beldavs, M.D. (Canada)
- 1991-93**  
 Saeed Al-Ghamdi, M.D. (Saudi Arabia)\*
- 1992-93**  
 William Basuk, M.D.  
 Keith Charles, M.D.
- 1993-94**  
 Mohammed Alaa, M.D. (at El-Maghraby Eye Hospital, Jeddah, Saudi Arabia), [President, International Society of Refractive Surgery]  
 Ken Moadel, MD (Saudi Arabia)
- 1994-95**  
 Thomas Heigle, M.D.  
 Keith Walter, M.D., [Assistant Professor of Ophthalmology, Wake Forest University, North Carolina]
- 1995-96**  
 \*Yuta Sano, M.D. (International Scholar, Japan)  
 \*Kazuo Takei, M.D. (Visiting Scholar, Japan)  
 Emil Chynn, M.D.  
 Jeffrey Gregory, M.D.
- 1996-97**  
 Carmen Amaral, M.D. (Puerto Rico)  
 David Huang, M.D., [Associate Professor of Ophthalmology, Univ of Southern California, Los Angeles]
- 1998-1999**  
 Ketan Patel, M.D.  
 Robert E. Smith II, M.D.

**1999-2000**

David Badawi, M.D.  
Holland Crosswell, M.D.

**2000-2001**

Ravi Gutta, MD

**2000-2002**

Anthony Johnson, MD

**2001-2002**

Andrew Kortz, MD  
Edward Abou-Jaoude, MD

**2002-2003**

Batool Jafri, MD  
Julio Narvaez, MD, [Associate Professor of Ophthalmology, Loma Linda Univ, California]  
Henia Lichter, MD

**2003-2004**

Bradley Randleman, MD [Associate Professor of Ophthalmology, Emory Univ, Atlanta]  
Susan Hewitt, MD

\* Indicates that they did a research year.

\*\* Indicates that research was successfully completed and PhD granted as a result

## **PROFESSIONAL SOCIETIES AND ORGANIZATIONS**

(\* Indicates Past or Present Service as Officer or Board Member)

### **Accommodation Club**

Member 2003 – Present

### **Alta California Ophthalmology Society**

Member 1974-1979

Dyslexia and Orthokeratology Committee, 1977

Program Committee, 1977-1976

### **American Academy of Ophthalmology**

Fellow, 1976-Present

Consultant, Focal Points Clinical Modules, 1983-1993

Interprofessional Education Committee, 1978-1981

Instruction Advisory Committee, 1978-1981

Continuing Education with Television in Ophthalmology Committee, 1977-1981

Ophthalmic Knowledge Assessment Committee, 1974-1976

Special Interest Group on Excimer Laser Corneal Surgery, Chairman, 1990-1992

### **American Board of Ophthalmology**

Diplomat, 1975-Present

Associate Examiner, 1980, 1989

### **American College of Surgeons**

Fellow, 1982-Present

Committee on Applicants, 1991

### **American Eye Study Club**

Member, 1977-1987

Emeritus Member, 1988-Present

### **American Medical Association**

Member, 1970-Present

Ophthalmology Program Committee, 1975-1979

### **American Ophthalmological Society** (an honorary Society founded in 1864, with membership limited by invitation only to 225 worldwide and requiring acceptance of a thesis)

Associate Member, 1989

Member, 1990-Present

Thesis – Development of a System for Excimer Laser Corneal Surgery

### **\*American Society of Cataract and Refractive Surgery**

Member, 1973-Present

Scientific Advisory Board of Directors, 1983-1987

Ophthalmic Council on Higher Learning, 1982-1987

### **American Society for Laser Medicine and Surgery, Inc.**

Member, 1987-1990

### **Association of American Physicians & Surgeons**

Member, 2004-2006

### **Association for Research in Vision and Ophthalmology**

Member, 1974-Present

Chairman, Cornea Section Committee, 1987-1988

Member, Cornea Section Committee, 1985-1988

Weisendfeld Award Winner, 2008

### **\*Association of University Professors of Ophthalmology**

Chairman, Slide Exchange Program, 1976-1977

Acting Secretary-Treasurer, 1977

### **Association of Veterans Administration Ophthalmologists**

Member, 1979-1982

### **Atlanta Medical History Society**

Member, 1982-1983

**California Association of Ophthalmology**

Member, 1978-1979

**\*California Medical Association**

Chairman, Section of Ophthalmology, 1978-1979

Secretary, Section of Ophthalmology, 1977-1978

Advisory Panel on Ophthalmology, 1977-1979

**\*Cornea Society**

Charter Member, 1975-Present

Executive Committee, 1981-1985

Program Chairman, 1983-1985

Castroviejo Medal Award, 2004

**College of Physicians of Philadelphia**

Fellow, 1980-1987

**Commissioned Officers Association of the United States Public Health Service**

Member, 1978-Present

**Contact Lens Association of Ophthalmologists, Inc.**

Member, 1978-1992

Refractive Keratoplasty Council, 1984-1987

**\*Corneal Dystrophy Foundation**

Medical Advisory Board Executive Committee, 1983-1987

**Council for Refractive Surgery Quality Assurance**

Member, 2002-2007

**Dekalb Medical Society**

Member, 1980-1990

**Egyptian Society of Ocular Implants and Refractive Surgery**

Honorable Life Member, 1991-Present

**Explorer's Club**

National Fellow, 2001-Present

**\*Eye Bank Association of America**

Member, 1982-Present

Program Committee, 1985

Medical Fellow, 1984-Present

Constitution and By-Laws Committee, 1984-1986

Medical Advisory Board, 1982-2000

**Georgia Society of Ophthalmology**

Member, 1980-Present

Public Education Committee, 1981-1984

Governmental Committee, 1988-1989

Laser Committee, 1991-1992

**\*International Federation of Eye Banks**

Member, Advisory Board, 1989-2002

**International Ophthalmic Microsurgery Study Group**

Member, 1988-2002

**International Society for Eye Research**

Member, 1980-1992

**\*International Society of Refractive Surgery of the American Academy of Ophthalmology**

Member, 1981-Present

Trustee, 1981-1989

Editor, **Journal of Refractive Surgery**, 1989-Present

Ex-Officio Member, Executive Committee, 2006-Present

**Royal College of Ophthalmologists (London, England)**

Fellow, 1989-Present

**\*Saudi Eye Foundation, Jeddah, Saudi Arabia**

International Advisory Board, 1989-1998

Member, Research Council, 1993-2002

**Saudi Ophthalmological Society**

Member, 1993-Present

**Societe Francaise d'Ophthalmologie**

Member, 1983-1985, 1992-1995

**Society of Heed Fellows**

Member, 1974-Present

Heed Award Nomination Committee, 1983-1984

Heed Award Nomination Committee, 2000-2004

Chairman, Heed Award Nomination Committee, 2004

**Wills Eye Hospital Ex-Resident's Society**

Member, 1973-Present

### **HONORS AND AWARDS**

- 2010 "Top Doctors of Atlanta" by Atlanta Magazine (doctor listing since 2000).  
President's Award, International Society of Refractive Surgery/American Academy of Ophthalmology, October, 2010
- 2009 Founders' Award, International Society of Refractive Surgery/American Academy of Ophthalmology, Nov, 2009.
- 2008 Mildred Weisenfeld Award for Excellence in Ophthalmology, 2008, The Association for Research in Vision and Ophthalmology (ARVO)
- 2007 *The 100 Most Frequently Cited Articles in Ophthalmology Journals* by Ohba, N; Nakao K; Isashiki Y; Ohba A, in: Arch Ophthalmol, 2007; 125 (7): 952-960. Dr. Waring was one of 28 authors with two or more "citation classics" between 1975 and 2006
- 2007 One of 10 Leading Ophthalmologists in US contributing a chapter in: *Inside the Mind: Ophthalmology Best Practices*. Published by Aspatore Books, Spring, 2007
- 2006 Waring Medal for Editorial Excellence. Established in 2006 and funded by Slack, Inc. It is presented annually to the author of an outstanding paper in the *Journal of Refractive Surgery*.
- 2006 "Top 50 Opinion Leaders in 2006", voted on by readers of Cataract & Refractive Surgery Today. March, 2006
- 2005 Kritzinger "Safari" Medal. South African Society of Cataract and Refractive Surgery. August 18, 2005, Durban, South Africa
- 2004 Castroviejo Medal. The Cornea Society at the American Academy of Ophthalmology Meeting, October 23, 2004, New Orleans, Louisiana
- 2004 Life Achievement Honor Award. The American Academy of Ophthalmology, 2004
- 2004 Visionary Award, Presented by Bausch Lomb at the American Academy of Ophthalmology, October 24, 2004, New Orleans, Louisiana
- 2003 Kritzinger Memorial Lecture Award by International Society of Refractive Surgery, November 2003, Anaheim, California
- 2001 Elected a National Fellow of the Explorer's Club, March 23, 2001, New York, New York
- 2000 Emory University School of Medicine, Department of Ophthalmology Commemorative Medalian, 20 years of service to the Emory Eye Center, Atlanta, Georgia
- 1997 Lifetime Achievement Award in Refractive Surgery. International Society of Refractive Surgery, October 24, 1997
- 1997 Gold Medal for Teaching and Academic Contributions to Ophthalmology. Awarded at the 4<sup>th</sup> International Congress of the Pan Arab Council of Ophthalmology, May 5, 1997
- 1996 Norman McAllister Gregg Medal in Medical Science, Royal Australian College of Ophthalmology, November 4, 1996

- 1993 Gold Medal for Outstanding Contribution to International Ophthalmology, 2<sup>nd</sup> International Congress of the Pan Arab Council of Ophthalmology, May 12, 1993
- 1992 Barraquer Prize, International Society of Refractive Keratoplasty, November 11, 1992
- 1991 Senior Honor Award, American Academy of Ophthalmology for Continuing Education Contributions
- 1991 Honorable Life Member, Egyptian Society of Ocular Implants and Refractive Surgery
- 1989 Honorary Medal from Ain Shams University, Cairo, Egypt, at the Dedication of their International Eye Bank, June 24, 1989
- 1989 Gold Medal for Outstanding Contribution in Ophthalmology, 5<sup>th</sup> International Congress on Cataract and Refractive Surgery, Florence, Italy, June 19-21, 1989
- 1989-1995 American Medical Association Physician's Recognition Award (also 1976, 1980-82)
- 1986 LANS Outstanding Achievement Award in Refractive Surgery, International Society of Refractive Keratoplasty
- 1984 First Place Award Scientific Poster, American Academy of Ophthalmology, Corneal Epithelial Dendriiform Figures (with T. Tooma, G. Crawford, P. Newman)
- 1981 Honor Award for Continuing Medical Education Contributions, American Academy of Ophthalmology
- 1979 Art Directors Club of New York Fifty-Ninth Annual Exhibition 1980 Merit Award for Artwork In Waring GO: The eye at first sight. Emergency Medicine 11:24-81, 1979
- 1978 Society of Heed Fellows, Outstanding Ophthalmologist
- 1977 Emmy Award for Outstanding News Feature from San Francisco Chapter of the National Association of Television Arts and Sciences. Steven Swatt, George Waring, and Darlene Davis. Videotape features, "Eyes of a Stranger"
- 1973 Heed Foundation Fellowship in Corneal and External Disease
- 1973 First Place Award Scientific Exhibit, Resident Category, Pennsylvania Academy of Ophthalmology and Otolaryngology
- 1972, 1971 Pew Foundation Scholarships, College of Physicians at Philadelphia
- 1972 Shipman Award, Best Resident Paper, Wills Eye Hospital Annual Conference
- 1971 National Institute of Health Training Grant Recipient
- 1958 Danforth Foundation Leadership Award

## HONOR DIRECTORY LISTINGS

- 2010            Strathmore's Who's Who, 2010 Edition
- "Top Doctors of Atlanta" by Atlanta Magazine (doctor listing since 2000).
- Who's Who in the World, Marquis Who's Who, 2010 Edition
- Who's Who in America, Marquis Who's Who, 2010 Edition
- Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.
- Kipling's Who's Who in Leading Business Professionals
- 2009            Best Doctors's in America, by Best Doctors, Inc. First selected in 1992.
- "Top Doctor" by Atlanta, Magazine, one of five ophthalmologists
- Who's Who in America, Marquis Who's Who, 2010
- 2008            Who's Who in the World (one of 50,000 individuals), Marquis Who's Who, 2008.
- "Top Doctor" by Atlanta, Magazine, one of five ophthalmologists
- Best Doctors in America*, by Best Doctors, Inc. First selected in 1992.
- America's Top Doctors* – Castle Connolly Medical, Ltd.
- Guide to America's Top Ophthalmologists. Consumers' Research Council of America.
- 2007            *America's Top Doctors* – Castle Connolly Medical, Ltd.
- Best Doctors in America*, by Best Doctors, Inc. First selected in 1992.
- "Top Doctor" by Atlanta Magazine, one of five ophthalmologists.
- Who's Who in Science and Engineering*, Marquis Who's Who.
- Who's Who in America, Marquis Who's Who.
- 2006            America's Top Doctors, Castle Connolly Medical, Ltd.
- Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.
- 2005            "Best Doctors in Atlanta," Atlanta Magazine.
- "Best Doctors in the United States," USA Magazine.
- Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.
- "Guide to America's Top Ophthalmologists," from the Consumers' Research Council of America, Washington, DC.

- America's Top Doctors. Castle Connolly Medical, Ltd.
- 2004 "Guide to America's Top Ophthalmologists," from the Consumers' Research Council of America, Washington, DC.
- Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.
- 2003 Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.
- 2002 Elected a Life Member of Kingston's National Registry of Who's Who – 2002 (Member #187876)
- Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.
- 2001 America's Top Doctors. Castle Connolly Medical, Ltd.
- Strathmore's Who's Who in America.
- Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.
- 2000 Strathmore's Who's Who in America.
- Best Doctor's in America, by Best Doctors, Inc. First selected in 1992.

**NAMED LECTURES**

1. **ROBERTS MEMORIAL LECTURE**, November, 1981, American College of Veterinary Ophthalmologists, Atlanta, Georgia
2. **JOSEPH KOPLOWITZ LECTURE**, January, 1986, Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, Maryland
3. **LANS DISTINGUISHED LECTURE**, January 17, 1987, International Society of Refractive Keratoplasty Meeting, Las Vegas, Nevada.
4. **KEVIN TUOHY MEMORIAL LECTURE**, February 12, 1987, Contact Lens Society of America, , Houston, Texas
5. **IRVING H. LEOPOLD LECTURE**, March 19, 1988, Willis Eye Hospital 40<sup>th</sup> Annual Conference, Philadelphia, Pennsylvania
6. **WOLFE LECTURE**, October 4, 1989, University of Iowa, Department of Ophthalmology, Iowa City, Iowa
7. **GLOVER-LISMAN PROFESSORSHIP**, October 5-7, 1989, Manhattan Eye, Ear and Throat Hospital, New York, NY
8. **WALTER WRIGHT LECTURE**, December 1, 1989, Department of Ophthalmology, University of Toronto, Toronto, Ontario
9. **PAUL CHANDLER LECTURE**, June 8, 1990, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts
10. **1996 SCHLOSSMAN LECTURER**, January 20, 1996, Manhattan Eye, Ear and Throat Hospital, New York, New York
11. **WILFRED E. FRY LECTURE**, December 1, 1990, Willis Eye Hospital Philadelphia, Pennsylvania
12. **LETTURA MEGISTRALE**, July 19, 1991, Chirurgia del Segmento Anteriore Trattamento Delle Complicanze, Venice, Italy
13. **RAYNER MEDICAL LECTURE**, October 1-2, 1992, United Kingdom Intraocular Implant Society, Manchester, England
14. **BARRAQUER MEDAL LECTURE**, November 11, 1992, American Academy of Ophthalmology, International Society of Refractive Keratoplasty Symposium on Refractive Surgery, Dallas, Texas
15. **56<sup>TH</sup> GEORGE DE SCHWEINITZ LECTURE**, November 11, 1993, College of Physicians, Philadelphia, Pennsylvania
16. **ADOLF O. AND HARRY A. PFINGST LECTURER**, March 17-18, 1995, 23<sup>rd</sup> Annual C. Dwight Townes Memorial Lecture, Department of Ophthalmology, University of Louisville, Louisville Kentucky

17. **3<sup>RD</sup> ANNUAL HAROLD GIFFORD, JR. LECTURER**, March 30-31, 1995, Department of Ophthalmology, University of Nebraska, Omaha, Nebraska
18. **DUPONT GUERRY, III LECTURE**, May 19-20, 1995, Department of Ophthalmology, Medical College of Virginia, Richmond, Virginia
19. **24<sup>th</sup> ANNUAL FRALICK LECTURE**, May 3, 1996, University of Michigan, W.K. Kellogg Eye Center, Ann Arbor, Michigan
20. **TULLOS O. COSTON LECTURER**, May 10-11, 1996, University of Oklahoma, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
21. **VAN DYK MEMORIAL LECTURER**, June 15, 1996, LSU Eye Center, New Orleans, Louisiana
22. **NORMAN MCALISTER GREGG LECTURE**, November 2-7, 1996, Royal Australian College of Ophthalmology Meeting, Perth, Australia
23. **26<sup>th</sup> G. VICTOR SIMPSON LECTURE**, January 23-24, 1998, Washington Eye Center, Washington, DC
24. **WILLIAM N. WILLIFORD LECTURE**, October 16-17, 1998, Department of Ophthalmology, University of Tennessee at Memphis, Tennessee
25. **PAUL CHANDLER LECTURE**, March 17-18, 2000, Massachusetts Eye & Ear Infirmary, Boston, Massachusetts
26. **LORAND V. JOHNSON LECTURE**, April 18, 2000, Department of Ophthalmology, Case Western University, Cleveland, Ohio
27. **JOSEPH BRYAN LECTURE**, February 8, 2001, Department of Ophthalmology, Duke University Medical Center, Durham, North Carolina
28. **DAVID PATON MEDAL LECTURE**, March 10, 2001, Department of Ophthalmology, Baylor College of Medicine, Houston, Texas
29. **SIGMUND SCHUTZ LECTURE**, February 10, 2004, Manhattan Eye & Ear Hospital, New York City, New York
30. **RAYNER MEDAL LECTURE**, September 9, 2004, United Kingdom & Ireland Society of Cataract & Refractive Surgeons, Chester, England
31. **R.C. TROUTMAN LECTURE**, October 12, 2004, Department of Ophthalmology, State University of New York Downstate Medical Center, Brooklyn, New York.
32. **CASTROVIEJO MEDAL LECTURE** October 25, 2004, The Cornea Society at the American Academy of Ophthalmology Meeting, New Orleans, Louisiana.
33. **26<sup>TH</sup> ANNUAL HARVEY THORPE LECTURE**, March 3, 2006, 42nd Annual Spring Meeting of the Pittsburgh Ophthalmological Society, Pittsburgh, Pennsylvania.
34. **RICHARD L. LINDSTROM LECTURE**, March 20, 2006, Contact Lens Association of Ophthalmologists at the American Society of Cataract and Refractive Surgery, San Francisco, California.

35. **ROSCOE KENNEDY LECTURE**, March 17, 2007, Innovations in Refractive Surgery and Cornea, Cole Eye Institute, Cleveland, Ohio.
36. **WEISENFELD LECTURE**, May, 2008, Association for Research in Vision and Ophthalmology, Ft. Lauderdale, Florida
37. **WEAVER LECTURE**, May, 2010, Wake Forest University, Bowman-Gray Dept of Ophthalmology, Winston-Salem, North Carolina.

**-RESEARCH GRANTS RECEIVED**

(\* Indicates Principal Investigator)

**National Institutes of Health**

1.           **\*Animal Models of Corneal Dystrophies and Degenerations.** George O. Waring, Principal Investigator; Alan MacMillan, PhD., Co-Investigator. Grant Nos. EYO2224 and EYO3302, 4-1-78 thru 3-31-81. \$121,891.
2.           **Descemet's Membrane in Corneal Disorders.** Grant No. EYO3448, 7-1-80 thru Cristina Kenney, PhD., Principal Investigator; George O. Waring, Co Investigator. \$102,233.
3.           **\*Prospective Evaluation of Radial Keratotomy (PERK) Study.** Grant Nos. 5U01 EYO3761-05 through 2U10 EYO3761-11, 9-30-80 thru 2-29-96. George O. Waring, M.D., Principal Investigator and National Chairperson of nine center trial. \$3, 245,000 to Emory University, total national budget approximately \$30 million dollars.
4.           **Basic Studies of the Biomechanics of the Cornea.** Grant No. EY06121, 7-1-82 thru 12-31-83 Raymond P. Vito, PhD., Principal Investigator; George O. Waring, M.D., Co-Investigator. \$17,770.
5.           **\*Yerkes Ophthalmic Primate Research Center Construction Grant.** Grant No. 1-C06 EYO4699-01. George O. Waring, Co-Author. \$347,000.
6.           **Collaborative Corneal Transplantation Studies.** Grant No. EYO6121, 5-1-85 thru 9-29-90. R. Doyle Stulting, M.D., PhD., Principal Investigator; George O. Waring, Back-up Surgeon. \$581,966.
7.           **Refractive Keratoplasty: A Laboratory Investigation.** Grant No. EYO3696, 5-1-85 Thru 4-30-88. Bernard McCarey, PhD., Principal Investigator; George O. Waring, Co-Investigator. \$413,726.
8.           **\*Keratoconus, Hypermobility Joints, Mitral Valve Prolapse.** Grant No. EYO6051, 7-1-85 thru 6-30-86. Eric Vinokur, M.D., Principal Investigator; George O. Waring, Collaborator. \$14,999.
9.           **\*Evaluation of CO<sub>2</sub> TEA Lasers for Corneal Surgery.** 7-1-86 thru 6-30-87. Orman Simpson, PhD., Principal Investigator; George O. Waring, Consultant.
10.          **\*Corneal Wound Healing After Photorefractive Keratectomy.** Grant No. EYO7388. 3-1-88 thru 2-28-91. George O. Waring, Principal Investigator. \$302,093.
11.          **Herpetic Eye Disease Study (HEDS) Study.** Grant No. EYO7482. 8-1-88 thru 7-31-93. R. Doyle Stulting, M.D., Principal Investigator, George O. Waring, M.D., Co-Investigator. \$308,708.
12.          **\*Fogarty Senior International Fellowship – Excimer Laser Photorefractive Keratotomy.** Fellowship No. 1 F06 TW01836-01. 10-1-92 thru 3-31-93. George O. Waring, M.D., Fellow. \$24, 150.

**Universities and Foundations**

14.          **\*Corneal Erosions: Preliminary Outline for Investigation.** University of California, Davis, 7-1-73 thru 5-31-76.
15.          **\*Innovative Projects in University Instruction.** University of California, Davis, 7-1-75 thru 6-30-7

16. **\*Experimental Production of Retrocorneal Fibrous Membranes.** Faculty Research Grant, University of California, Davis 7-1-75 thru 6-30-75.
17. **Measurement of Preoperative Visual Acuity by Laser Interferometry.** School of Medicine Biomedical Research Support Grant, University of California, Davis, 7-1-76 thru 6-30-78.
18. **\*Monograph:** Clinicopathologic Correlation in Corneal Disease. Commonwealth Fund Book Program Grant-In-Aid, 11-20-76 thru 12-31-78.
19. **\*Sacramento Eye Bank Development Grant.** Junior League of Sacramento, Inc., 7-1-77 thru 6-30-78.
20. **\*Textbook: Clinicopathologic Correlations in Corneal Disease (with Laibson PR, Rodrigues MM).** American Academy of Ophthalmology, 7-1-77 thru 6-30-78.
21. **\*Corneal Dystrophy and Degeneration in Beagles and Siberian Huskies: Clinical, Histochemical, and Ultrastructural Characteristics.** National Society for the Prevention of Blindness. 7-1-77 thru 6-30-78.
22. **\*Animal Models of Corneal Dystrophies and Degenerations.** Biomedical Research Grant, University of California, 4-1-77 thru 3-31-78.
23. **\*Ophthalmic Videotape for Medical Students.** Core Co. Committee, University of California, Davis, 3-1-78 thru 3-1-79.
24. **\*The Comparison of Five Methods of Measuring Human Corneal Endothelial Cells.** Faculty Research Grant, University of California, Davis, 7-1-78 thru 6-30-79.
25. **\*The Comparison of Five Methods of Measuring Human Corneal Endothelial Cells Photographed by Sepcular Microscopy.** Fight for Sight, Inc., 9-1-78 thru 8-31-79.
26. **\*Biochemical Studies of Spontaneous Lipid Deposits in Beagles and Siberian Huskies.** Medical Research Council of Canada, to Marilyn B. Ekins, M.D., Corneal Fellow, 7-1-78 thru 6-30-79.
27. **Effect of Aqueous Humor on Collagen Synthesis by Rabbit Corneal Endothelial Cells in Vivo.** (Kennedy C. Principal Investigator). Fight for Sight, Inc., 9-1-79 thru 8-31-80.
28. **\*Biochemical Characterization of Spontaneous Lipid Deposits in Beagles and Siberian Husky Corneas.** McCandless Research Grant, Emory University, 2-19-80 thru 2-18-81.
29. **A Comparison of Pseudophakic and Aphakic Eyes after Keratoplasty.** Research Fellowship, Emory University, to Spencer Welch, Medical Student; George O. Waring, Sponsor.
30. **\*Basic Studies of Biomechanics of the Cornea.** Fight for Sight, Inc. George O. Waring, Principal Investigator; Raymond H. Vito, Co-Investigator, 9-1-82 thru 3-31-83.
31. **\*Study of Variables that Affect Corneal Astigmatism after Penetrating Keratoplasty.** Emory University Medical School Biomedical Research Support Grant, George O. Waring, Principal Investigator; Gabriel Van Rij, Visiting Scientist, 4-1-82 thru 3-31-83.
32. **\*Excimer Laser Photorefractive Keratectomy in Non-Human Primates.** Emory University Research Committee Grant. George O. Waring, Principal Investigator, 8-1-87 thru 8-31-88.
33. **\*Excimer Laser Photorefractive Keratectomy in Non-Human Primates.** Emory Biomedical Research Grant, George O. Waring, Principal Investigator, 4-15-87 thru 4-14-89.

**Industry**

34. **\*Educational Grant.** Alcon Industries, 7-1-76 thru 6-31-78.
35. **Coded Clinical Evaluation of Trifluorothymidine vs. Idoxuridine.** Open Clinical Evaluation of Trifluorothymidine. Burroughs Wellcome Company, 9-1-76 thru 8-31-77.
36. **Double-Masked Comparison of Flow Base and Adapt in Keratoconjunctivitis Sicca.** Flow Pharmaceutical, Inc., 5-1-77 thru 6-30-78.
37. **Use of Ocutome in Anterior Segment Surgery.** Berkeley Bioengineering, Inc. 1-1-77 thru 6-30-78.
38. **Production of Clinical Videotapes for Medical Students.** CIBA Pharmaceuticals, Inc., 7-1-78 thru 8-31-80.
39. **Clinical Trials of Therapeutic and Extended Wear Sauflon Contact Lenses.** Sauflon International, Inc. Funded by Charges to Individual Patients Fitted with Lenses.
40. **\*A Controlled Double-Masked Study Evaluating the Effect of Indomethacin Ophthalmic Suspension and Placebo in Reducing the Incidence of Cystoid Macular Edema Following Penetrating Keratoplasty in Aphakia and Pseudophakia.** Merck Sharp & Dohme Research Laboratories, Inc., George O. Waring, Principal Investigator; Alan M. Kozarsky, M.D., and Travis A. Meredith, M.D., Co-Investigators 1984.
41. **Intrastromal Corneal Hydrogel Lens Implants in Monkeys.** IOLAB, Bernard McCarey, PhD., Principal Investigator; George O. Waring, Co-Investigator, 1982-1984.
42. **\*Educational Grant.** Cooper Vision, 1985-1986
43. **Intracorneal Polysulfone Lenses – Evaluation in Primates and Cats.** Surgidev., Inc., Bernard McCarey, PhD., Principal Investigator, George O. Waring, Co-Investigator, 1985-1986.
44. **\*Educational Grant.** Pharmacia, Inc. 1986-1987.
45. **\*Human Epidermal Growth Factor in Non-Healing Corneal Epithelial Diseases in Humans.** Chiron Ophthalmics, Inc., George O. Waring, Co-Investigator, 1987-1988.
46. **\*Photorefractive Keratectomy in Non-Human Primates Using an Argon Fluoride (193nm) Excimer Laser.** Coherent Medical Group, George O. Waring, Principal Investigator, 1987-1988.
47. **\*Evaluation of Viscoelastic Substance.** Edward Weck & Company, George O. Waring Co-Investigator, 1987-1988.
48. **\*Educational Grant.** Alcon Industries, 1987.
49. **IOGEL Polymacon Intracorneal Lens.** Alcon Laboratories, George O. Waring, Co-Investigator, 1987-90.
50. **Laser Adjustable Synthetic Epikeratoplasty (LASE).** General Electric Corporation, Keith Thompson, Director; George O. Waring, Co-Director, 1989-1991.
51. **\*Studies of Videokeratography of Normal and Postoperative Corneas.** Computed Anatomy, Inc., George O. Waring, M.D., Principal Investigator, 1989-1995.

52. **\*Evaluation of a Placido-Based Computer-Assisted Videokeratoscope.** EyeSys Laboratories, George O. Waring, M.D., Principal Investigator, 1989-1995.
53. **Development of Excimer Laser Delivery System; Evaluation of Arcuate Keratome.** French Ministry of Research and Health, Khalil D. Hanna, Principal Investigator, George O. Waring, Co-Investigator, 1992.
54. **Casebeer System of Refractive Keratotomy Clinical Trial.** Chiron Vision Corporation, George O. Waring, M.D., Medical Monitor, 1994-1995.
55. **Laser Capsule Opacification Prevention Multicenter Clinical Trial.** Sponsor: A.R.C. Laser, GmbH, George O. Waring, III, MD, Medical Monitor, 2008-2011.

#### **U.S. Food and Drug Administration, Industry-Sponsored Clinical Trials.**

56. **\*Excimer Laser Refractive Keratoplasty.** Summit Technology, Inc., George O. Waring, M.D., Principal Investigator, 1989-1995.
57. **\*Lens Capsule Epithelial Cleaning with the ARC Dodick YAG Photolysis Laser.** European Multicenter Trial, ARC Laser Company, George O. Waring, III, MD, Chairman, 2008 – present.
58. **Sandimmune Ophthalmic Ointment – Safety and Efficacy in “High Risk” Corneal Transplant.** Sandoz Corporation, R. Doyle Stulting, M.D., PhD., Principal Investigator, George O. Waring, M.D., Co-Investigator, 1990-1992.
59. **Safety and Comparative Efficacy of Three Concentrations of Sandimmune Ophthalmic Ointment vs. Placebo in Patients with Keratoconjunctivitis Sicca.** Sandoz Corporation, R. Doyle Stulting, M.D., PhD., Principal Investigator, George O. Waring, M.D., Co-Investigator, 1991-1992.
60. **\*Laser in-Situ Keratomileusis for Myopia and Astigmatism.** IDE# G950058. Emory University, Sponsor, George O. Waring, M.D., Principal Investigator. April 6, 1995 – September, 1999.
61. **\*Excimer Laser Photorefractive Keratectomy, Phase III.** IDE# G880210. Summit Technology, Sponsor. George O. Waring, M.D., Principal Investigator, August 16, 1992 – September, 1998.
62. **\*Excimer Laser In-Situ Keratomileusis (LASIK) for Myopia and Astigmatism with the Nidek EC-5000.** IDE# G970053. Emory University, Sponsor, George O. Waring, M.D., Principal Investigator, June, 1997 – December, 2000.
63. **Intracorneal Ring Segment Implantation, Phase III FDA Trial.** KeraVision, George O. Waring, M.D., Co-Investigator, January 1997-January 1999.
64. **US Clinical Investigation of Artisan Myopia Lens for the Correction of High Myopia.** Phase III FDA Trial, Ophtec USA, Inc., R. Doyle Stulting, MD, PhD, Principal Investigator, George O. Waring, M.D., Co-Investigator, 1999 – 2004.
65. **\*Safety and Effectiveness of the Nidek EC-5000 Excimer Laser System for the Treatment of Hyperopia with or without Astigmatism.** FDA Trial, Nidek, Inc., George O. Waring, III, MD, Principal Investigator, 2005 – 2006.
66. **\*Safety and Effectiveness of the Nidek EC-5000 Excimer Laser System Using Customized Aspheric Treatment Zone (CATz) Guided LASIK for the Treatment of Myopic Astigmatism in Virgin Eyes with**

- Corneal Irregularity.** FDA Trial, Nidek, Inc., George O. Waring, III, MD, Principal Investigator, 2005 – 2008.
67. **A Prospective Multicenter Clinical Trial to Evaluate the Safety and Effectiveness of the AcuFocus ACI7000 in Presbyopic Subjects.** FDA Trial, AcuFocus, Inc., George O. Waring, III, MD, Co-investigator, 2006-2009.
68. **Lenstec TetraFlex Posterior Chamber Accommodating Intraocular Lens Trial, FDA IDE GEC Row 5 0048.** George O. Waring, III, MD, Co-investigator. 2007-2009.

**RESEARCH GRANTS REVIEWED**

1. Chairman, Special Study Section, NIH – Small Business Innovation Grant  
1R43-EYO6682-01.
2. Special Study Section, NIH – Eye Research Institute of Retina Foundation Grant  
1U01-EYO7526-01.
3. Chairman, Special Study Section, NIH – 1R01 EYO7396-01A1  
Chairman, Special Study Section, NIH – 1R01 EYO7396-01A2

**CONSULTANT TO OPHTHALMIC INDUSTRY**

1. Summit Technology. Excimer laser corneal surgery. 1990 – 1995
2. Chiron Corporation. Phakic intraocular lenses. 1993 - 2002
3. Bausch & Lomb. World Medical Monitor: phakic intraocular lenses. 2003-2005
4. Nidek, Inc. Excimer laser corneal surgery. Chairman of International Advisory Panel and World Medical Monitor, and Clinical Investigator. 1997 - present
5. Calhoun Vision. Scientific Advisory Board member. 6-11-02 - present.
6. ARC Laser Corp. Consultant. Dodick laser photolysis instrument. November, 2004 – present. Chairman, Photolysis Lens Capsule Cleaning Multicenter Clinical Trial. July 2008 – present
7. Acufocus. Scientific Advisory Board member and Clinical Investigator. 2005 – 2009
8. Advanced Medical Optics. Phakic intraocular lenses. 2005 - 2007
9. Herbert Schwind GmbH & Co. Pendular microkeratome. 2006 - 2008
10. arGentis Co. Dry eye syndrome treatment. 2006 - 2007
11. Gerson Lehrman Group. General consulting issues re ophthalmology. November, 2006 - 2009
12. Coleman Research Group. Consultant for ophthalmic issues in industry. Jan, 2007 – 2009
13. Innovation Factory. Consultant for ophthalmic issues. March, 2007 – March 2008
14. Vista Research's Society of Industry Leaders (member). Consultant re ophthalmic issues in industry research or investment issues. December, 2007 – present
15. Clarity Medical Systems, Inc. Consultant. Ophthalmology industry. 2008 – present

EDITORIAL ACTIVITIES**Journal of Refractive Surgery (Formerly Refractive and Corneal Surgery)**

Editor-in-Chief, 1989-2010  
 Associate Editor, 1987-1988  
 Editorial Board, 1985-1987

**American Journal of Ophthalmology**

Consultative Board, 1987-1997  
 Editorial Board, 1981-1987

**Aier Eye Hospital**

Advisory Board, 2008-Present

**Asia-Pacific Journal of Ophthalmology**

Editorial Board, 1991-Present

**Chinese Journal of Optometry & Ophthalmology**

Guest Editor, 2006–2010

**Chinese Journal of Optometry & Ophthalmology and Visual Science (CJOVS)**

Guest Editor, 2010-Present

**Cornea**

Editorial Board, 1985-1988

**European Journal of Implant and Refractive Surgery**

Editorial Board, 1989-1991

**European Journal of Ophthalmology**

Editorial Board, 1995-Present

**Evidence-Based Eye Care**

Editorial Board, 2000-Present

**Implants in Ophthalmology**

Editorial Board, 1987-1994

**Japanese Journal of Ophthalmology**

Editorial Board, 1996-Present

**Metabolic, Pediatric and Systemic Ophthalmology**

Editorial Board, 1981-1986

**Middle East Journal of Ophthalmology**

Editorial Board, 1993-Present

**Ocular Therapeutics and Management**

Editorial Board, 1998-1992

**Ophthalmic Surgery**

Board, 1985-1989

**Ophthalmology Times (Newspaper)**

Medical Advisory Board, 1996-2008

**Pakistan Journal of Ophthalmology**

Editorial Board, 1985-Present

**Saudi Journal of Ophthalmology**

International Advisory Board, 1990-Present

**Survey of Ophthalmology**

Editor, Viewpoints Section, 1975-1986

**Southern Medical Journal**

Editor, Ophthalmology Section, 1979-1985

**The Medical Letter, Ophthalmology**

Consultant, 1977-Present

**Video Journal of Ophthalmology**

Editorial Board, 1984 – 2004

Contributor/Consultant

## Publications

### ORIGINAL ARTICLES IN PEER REVIEWED JOURNALS

#### 1974

1. Waring GO, Laibson PR, Rodrigues MM: **Clinical and pathologic alterations of descemet's membrane: with emphasis on endothelial metaplasia.** Surv Ophthalmol 1974; 18:325-368. Reprinted in Straatsma BF, et al (eds); Companion Source Manual. Rochester, Am Acad Ophthalmol Otolaryngol, 1975.
2. Shields JA, Waring, GO, Monte LG: **Ocular findings in leprosy.** Am J Ophthalmol 1974; 77:800-890. Reprinted as a booklet entitled, "Ocular Findings in Leprosy." Washington, D.C., The People to Health Foundation, Inc., 1974.

#### 1975

3. Waring GO, Shields JA: **Partial unilateral cryptophthalmos with syndactyly, brachycephaly, renal anomalies.** Am J Ophthalmol 1975; 79:437-440.
4. Waring GO, Rodrigues MM, Laibson PR: **The anterior chamber cleavage syndrome: a stepladder classification.** Surv Ophthalmol 1975; 20:3-27.
5. Waring GO, Flanagan J: **Pneumocephalus: A Sign of Intracranial Involvement in Orbital Fracture.** Arch Ophthalmol 1975; 93:847-850. Reprinted in Traumatic Medicine And Surgery For the Attorney. New York, Matthew Bender, 4:603-614, 1976.
6. Rodrigues MM, Waring GO, Laibson PR, Weinreb S: **Endothelial alterations in congenital corneal dystrophies.** Am J Ophthalmol 1975; 80:678-689.
7. Waring GO, Font RL, Rodrigues MM, Mulberger RD: **Alterations of Descemet's membrane in interstitial keratitis.** Am J Ophthalmol 1975; 80:773-785.

#### 1976

8. Waring GO, Walters RF: **Curriculum for 10-day medical student clerkship in ophthalmology.** J Med Educ 1976; 51:772-774.
9. Waring GO, Laibson PR, Satz JE, Joseph NH: **Use of vidarabine in epidemic Keratoconjunctivitis due to adenovirus types 3, 7, 8, 9.** Am J Ophthalmol 1976; 82: 781-785.
10. Waring GO, Roth AM, Rodrigues MM: **Clinicopathologic correlations of microphthalmos with cyst.** Am J Ophthalmol 1976; 82:714-721.
11. Waring GO: **Congenital central corneal opacity: diagnosis and management.** Trans Pac Coast Oto-ophthalmol Soc Ann Meet 1976; 57: 361-389.

**1977**

12. Waring GO, Laibson PR: **Keratoplasty in infants and children.** Trans Am Acad Ophthalmol Otolaryngol 1977; 83: 283-296.
13. Waring GO, Parks MM: **Successful lens removal in congenital corneolenticular adhesion (Peters' anomaly).** Am J Ophthalmol 1977; 83:526-529. Reprinted in Newell FW: Hereditary Disorders of the Eye and Ocular Adnexa. Chicago, The Ophthalmic Publishing Company, 1980, pp 158-161.
14. Waring GO, Muggli FM, MacMillan A: **Oval corneal opacities in beagles.** J Am Anim Hosp Assoc 1977; 13: 204-208.
15. Waring GO, Harris R, Walters RF, Berris C: **Clinical ophthalmology instructions for medical students.** Surv Ophthalmol 1977; 22: 106-112.
16. Waring GO, Laibson PR: **Systematic method of drawing corneal pathologic conditions.** Arch Ophthalmol 1977; 95: 1540-1542.

**1978**

17. Krachmer JH, Anderson RL, Binder PS, Waring GO, Rowsey JJ, Meek ES: **Helminthosporium corneal ulcers.** Am J Ophthalmol 1978; 95:666-670. (Correspondence: Am J Ophthalmol 1978; 86: 853 and Am J Ophthalmol 1979; 87: 105)
18. Waring GO, Rodrigues MM, Laibson PR: **Corneal dystrophies. I. Dystrophies of the epithelium, Bowman's layer and stroma.** Surv Ophthalmol 1978; 23:71-122.
19. Waring GO, Rodrigues MM, Laibson PR: **Corneal dystrophies. II. Endothelial dystrophies.** Surv Ophthalmol 1978; 23:147-168.
20. Waring GO, Bodai BI: **The red eye.** J Fam Pract 1978; 7:825-837. Reprinted in Sight Sav Rev 1980; 49:167-183.
21. Waring GO, Beernick DH: **Scleral ring as a template for corneo-scleral graft.** Am J Ophthalmol 1978; 85:258-260.

**1979**

22. Waring GO, Laibson PR: **Anterior chamber cleavage syndrome: diagnosis and management.** Contact Intraocul Lens Med J 1979; 5:171-188.
23. Waring GO, Harris PR: **Double-masked evaluation of a poloxamer artificial tear.** Burns RP, Leopold IH (eds). Symposium On Ocular Therapy, Vol. 10, New York, John Wiley & Sons, 1979; pp 127-140.
24. Hendley RL, Rieser JC, Waring GO, Bodner BI, Cavanagh HD: **Primary radiation therapy for Meibomian gland carcinoma.** Am J Ophthalmol 1979; 87:206-209.
25. Waring GO: **The eye at first sight.** Emerg Med 1979; 87:206-209.
26. Michelson JB, Roth AM, Waring GO: **Lepromatous iridocyclitis diagnosed by anterior chamber paracentesis.** Am J Ophthalmol 1979; 88:674-679.
27. MacMillan AD, Waring GO, Spangler WL, Roth AM: **Crystalline corneal opacities in the Siberian**

**husky.** J Am Vet Med Assoc 1979; 175:829-832.

28. Waring GO, MacMillan AD, Roth AM, Spangler WL, Elkins MB: **Lipid corneal opacities in beagles and Siberian huskies.** Proc Am Coll Vet Ophthalmol 1979; 10:1-27
29. Laibson PR, Waring GO, Arentsen JJ: **Adenovirus ocular infections.** Contact Intraocul Lens Med J 1979; 5:213-225.

#### 1980

30. Waring GO, Krohn MA, Ford GE, Harris RR, Rosenblatt LS: **Four methods of measuring human corneal endothelial cells from specular photomicrograph.** Arch Ophthalmol 1980; 98:848-855.
31. Sugar J, Stark W, Binder PS, Meyer R, Chandler JW, Waring GO, Hirst L, King DH: **Trifluorothymidine treatment of herpes simplex epithelial keratitis and comparison with idoxuridine.** Ann Ophthalmol 1980; 12:611-615.
32. Ekins MB, Waring GO, Harris RR: **Oval lipid corneal opacities in beagles. Part II: Natural history over four years and study of tear function.** J Am Anim Hosp Assoc 1980; 16: 601-605.
33. Waring GO, Rodrigues MM: **Ultrastructure and successful keratoplasty of sclero-cornea in Mieten's syndrome.** Am J Ophthalmol 1980; 90:469-475.
34. Marron JA, Waring GO: **Manometer for calibration of the MacKay-Marg tonometer.** Ann Ophthalmol 1980; 12:1344-1346.

#### 1981

35. Roth AM, Ekins MB, Waring GO, Gupta LM, Rosenblatt LS: **Oval corneal opacities in beagles. III. Histochemical demonstration of stromal lipids without hyperlipidemia.** Invest Ophthalmol Vis Sci 1981; 21: 95-106.
36. Ekins MBC, Waring GO: **Absent Meibomian glands and reduced corneal sensation in Hypohidrotic ectodermal dysplasia.** J Pediatr Ophthalmol Strabismus 1981; 18:43-47.
37. Waring GO: **Radial keratotomy in perspective.** Am J Ophthalmol 1981; 92:286-291.
38. Waring GO: **Selecting patients for penetrating keratoplasty.** South Med J 1981; 74:1243-1248.
39. Aiken DG, Rogers SB, Macon EJ, Waring GO: **Update on organ donation in Georgia.** J Med Assoc Ga 1981; 70:713-717.
40. Waring GO, Ekins MB: **Corneal perforation in herpes zoster ophthalmicus caused by eyelid scarring with exposure keratitis.** Sundmacher R (ed): Herpetic Eye Diseases. International Symposium of the Deutschen Ophthalmologischen Gesellschaft, 1980. Frieburg, Munich, JF Bergmann 1981, pp 469-478.

#### 1982

41. \*Waring GO: **Posterior collagenous layer of the cornea. Ultrastructural classification of abnormal collagenous tissue posterior to Descemet's membrane in 30 cases.** Arch Ophthalmol 1982; 100:122-134.
42. Reid T, Kenney MC, Waring GO: **Isolation and characterization of fibronectin from bovine aqueous humor.** Invest Ophthalmol Vis Sci 1982; 22:57-61.

43. Morrin LA, Waring GO, Spangler W: **Oval lipid corneal opacities in beagles: ultrastructure of normal beagle cornea.** Am J Vet Res 1982; 43:443-453.
44. Rashid ER, Waring GO: **Use of Healon in anterior segment trauma.** Ophthalmic Surg 1982; 12: 201-203.
45. Waring GO, Bourne WM, Edelhauser HF, Kenyon KR: **The corneal endothelium. Normal and pathologic structure and function.** Ophthalmology 1982; 89:531-590. (Abstracted in the Yearbook of Ophthalmology 1983; pp 107-110.) (One of "The 100 Most Frequently Cited Articles in Ophthalmology Journals" from 1975 – 2006; Ohba et al. Arch Ophthalmol 2007; 125:952-960)
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247. Waring III GO. **Eighth Annual Nidek International Excimer Laser Symposium.** J Refract Surg 2003 19 (suppl):S188. [Editorial]
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252. Waring III GO. **The future of refractive surgery: Confluence of techniques and staged delivery.** J Refract Surg 2004 20:S647-S650. [Editorial]
253. Waring III GO, Alio Jorge. **Beauty is truth, truth beauty.** J Refract Surg 2005. 21:11-12 (Editorial)
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255. Waring III GO, Chayet AS, Fant, B, Fisher J, Narvaez J, Phillips S, Schanzer C, Tanchel N. **Hyperopic LASIK outcome using the Nidek EC-5000 excimer laser with 6.0 mm optical zone and 9.0 mm treatment zone.** J Refract Surg. 2005. 21:S666-S667. (Abstract)
256. Waring III GO. **Increased publication frequency and online advanced release – two strides forward for faster dissemination of information.** J Refract Surg. 2006; 22:226-227. (Editorial)
257. Waring III GO. **Customized (topographically guided) LASIK treatment for myopic astigmatism.** American Academy of Ophthalmology Annual Meeting, Las Vegas, NV, November 11-14, 2006. (Poster)
258. Reinstein DZ, Waring GO. **Have you seen the 10-year long term safety data on LASIK?** J Refract Surg 2006; 22:843-845. (Editorial)
259. Dawson DG, Schmack I, Holley GP, Waring GO 3<sup>rd</sup>, Grossniklaus HE, Edelhauser HF. **Interface fluid syndrome in human eye back corneas after LASIK: causes and pathogenesis.** Ophthalmol 2007. Oct; 114 :1848-59. (Abstract)
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261. Waring GO III, Fant BS, Chayet A, Dougherty P, Fischer J. **Customized (Topographically Guided) LASIK Treatment of Myopic Astigmatism.** American Society of Cataract and Refractive Surgery, Chicago, IL, April 5-9, 2008. (Poster)
262. Waring GO III. **Neo-neologisms.** J Refract Surg 2008; 24:7-8. (Editorial)
263. Waring, GO III. **Excellence.** J Refract Surg 2008; 24:662-663. (Editorial)
264. Waring GO III, Grossniklaus HE, Wehner W, Walker R, Thyzel R, Mamalis N. **Prevention of Posterior Capsule Opacification by Nd:YAG Capsule Cleaning During Cataract Surgery.** American Academy of Ophthalmology Annual Meeting, Atlanta, GA, November 7-11, 2008. (Poster)
265. Waring GO III. **The Tetraflex vs. Monofocal Control Visual Accommodative Testing in US FDA Multicenter Investigation.** American Academy of Ophthalmology Annual Meeting, Atlanta, GA, November 7-11, 2008. (Poster)
266. Waring GO III. **Troutman Award for Editorial Excellence – 16 Years of Inspired Contributions.** J Refract Surg 2008; 24:863-864. (Editorial)
267. Waring GO III. **Hideo Ozawa: A Personal Persepctive.** J Refract Surgery 2009; 25:S915. (Tribute)

268. Reinstein, DZ, Waring GO III. **Graphic reporting of outcome of refractive surgery.** J Refract Surg 2009; 25:975-978. (Editorial)

## **INVITED LECTURES, COURSES, SCIENTIFIC PRESENTATIONS**

### **1974**

1. **Ohio State University**, July, 1974, Columbus Ohio. "Anterior Chamber Cleavage Syndrome" "Clinical and Pathologic Disorders of Descemet's Membrane"
2. **Milwaukee County Hospital**, July, 1974, Milwaukee, Wisconsin. "Anterior Chamber Cleavage Syndrome"
3. **University of Iowa**, July, 1974, Iowa City, Iowa. "Anterior Chamber Cleavage Syndrome" "Clinical and Pathologic Disorders of Descemet's Membrane"
4. **University of Colorado**, July 1974, Denver, Colorado. "Anterior Chamber Cleavage Syndrome"
5. **U.C. Davis Postgraduate Family Practice Refresher Course**, August, 1974, Squaw Valley California.
6. **Northern California Basic Science Course in Ophthalmology**, September, 1974, Sacramento, California. "Corneal Erosions – A Common Cause for Referral"
7. **Alta California Ophthalmological Society**, September, 1974, Sacramento, California. "Corneal Erosions – A Common Cause for Referral"

### **1975**

8. **Department of Ophthalmology, University of Iowa**, January 7, 1975, Iowa City, Iowa; Visiting Professor. "Conjunctival Tumors"
9. **8<sup>th</sup> Annual Pediatric Ophthalmology Symposium**, Wills Eye Hospital and Research Institute, May 12, 1975, Philadelphia, Pennsylvania. "Differential Diagnosis of Cloudy Cornea at Birth"
10. **Northern California Basic Science Course in Ophthalmology**, September 9, 1975, Stanford, California. "Physiology of the Cornea and Tears"
11. **U.C. Davis, Postgraduate Medicine Emergency Medical Care Review**, September 16, 1975, Monterey, California. "Eye Emergencies"
12. **Association for Research in Vision and Ophthalmology**, Western Section, September 17, 1975, Portland, Oregon. "Microphthalmos with Cyst"
13. **University of California, Los Angeles**, Jules Stein Eye Institute, October 25, 1975, Los Angeles, California. "Therapeutic Uses of Soft Contact Lenses"
14. **Association of University Professors of Ophthalmology**, November 4, 1975, Washington, D.C. "Medical Student Education in Ophthalmology"
15. **Second Biennial Corneal Conference**, Wills Eye Hospital, December 11, 1975, Philadelphia, Pennsylvania. "Adenoviral Conjunctivitis" and "Corneal Opacities at Birth"
16. **Soft Contact Lens Symposium**, University of Colorado, December 18, 1975, Denver, Colorado. "Soft Contact Lens Treatment of Corneal Erosions and Ulcerations"

**1976**

17. **Alta California Ophthalmology Society**, January 15, 1976, Sacramento, California. "The Skin and Eye"
18. **California Medical Association Symposium on the Cornea**, February 8, 1976, San Francisco, California. "Corneal Physiology"
19. **San Joaquin County Hospital**, March 3, 1976, Stockton, California. "Ocular Sarcoidosis"
20. **World Cornea Congress**, April 28, 1976, Washington, D.C. "Diagnosis and Management of the Anterior Chamber Cleavage Syndrome"
21. **Visiting Professor in Ophthalmology, University of Washington School of Medicine**, May 14, 1976, Seattle, Washington.
22. **Pacific Coast Oto-Ophthalmology Society Corneal Symposium**, May 15, 1976, Seattle, Washington. "Congenital Central Corneal Opacities"
23. **American Medical Association Annual Convention**, June 28, 1976, Dallas, Texas. Discussion of: "Salzman's Nodular Degeneration" by Rodrigues, Laibson and Sijumi.
24. **Veterans Administration Hospital**, July 9, 1976, San Jose, California. "Eye Banking"
25. **Puerto Rican Ophthalmological Society**, June 20, 1976, Puerto Rico. "Neonatal Corneal Opacities," "Therapeutic Soft Contact Lenses," "Adenoviral Keratoconjunctivitis"
26. **Northern California Basic Science Course in Ophthalmology**, July 30, 1976, Martinez, California, "Ocular Leprosy," "Indications for Keratoplasty"
27. **Veterans Administration Hospital**, July 30, 1976, Martinez, California, "Ocular Trauma"
28. **Northern California Basic Science Course in Ophthalmology**, August 3, 1976, Stanford, California. "Corneal Physiology"
29. **Monterey Ophthalmic Study Club**, August 5, 1976, Monterey, California. "Keratoplasty in Infants and Children"
30. **U.C. Davis – S.M.C. Family Practice Refresher Course**, August 25, 1976, Monterey, California. "Advances in Ophthalmology," "Ocular Trauma"
31. **Castroviejo Society**, October 7, 1976, Las Vegas, Nevada. "Delayed Sterile Endophthalmitis Following Keratoplasty"
32. **American Academy of Ophthalmology and Otolaryngology**, October 6, 1976, Las Vegas, Nevada. Papers: "Keratoplasty in Infants and Children," "Slit Lamp Table Extension" Courses: "Pigmented Lesions of the Conjunctive," "The Skin and Eye," "Corneal Disorders in Childhood"
33. **Oregon Academy of Ophthalmology and Otolaryngology** and Visiting Professor, Department of Ophthalmology, University of Oregon, December 3, 1976, Portland, Oregon. "Ophthalmology Aboard the Ship HOPE," "Therapeutic Soft Contact Lenses," "Congenital Corneal Opacities"

**1977**

34. **American Society of Contemporary Ophthalmology**, January 30-February 2, 1977, Hollywood, Florida. Courses: "External Ocular Diseases – Common Office Problems" (with Binder P, et al), "Microsurgery of the Anterior Segment" (with Polack, F, et al)
35. **Wills Eye Hospital**, 29<sup>th</sup> Annual Conference, February 3, 1977, Philadelphia, Pennsylvania. "Microphthalmos with cyst: clinicopathologic correlation in three cases"
36. **Alabama Academy of Family Physicians**, March 15, 1977, Lake Tahoe, California. "The Red Eye: Diagnosis and Management"
37. **Association for Research and Vision in Ophthalmology**, April 24-29, 1977, Sarasota, Florida. "Oval Corneal Opacities in Beagles: Clinical, Histochemical and Ultrastructural Studies"
38. **Valley Medical Center**, Visiting Professor, May 7-8, 1977, Fresno, California. "Management of the Congenital Cloudy Cornea"
39. **University of California**, San Francisco, California, Proctor Foundation, May 25, 1977, San Francisco, California. "Clinical Pathologic Correlations in the Anterior Chamber Cleavage Syndrome"
40. **San Joaquin County Hospital**, June 8, 1977, Stockton, California. "Ocular Manifestations of Dermatologic Disease"
41. **Department of Ophthalmology, Clinical and Research Symposium, UCD**, June 27, 1977, Sacramento, California. "Animal Models of Human Corneal Disease"
42. **Northern California Basic Science Course**, July 22, 1977, Palo Alto, California. "Corneal Physiology," "Patient Selection for Keratoplasty"
43. **Veterans Administration Hospital**, August 5, 1977, Martinez, California. "Ocular Emergencies"
44. **Fifth Annual Family Practice Refresher Course**, August 25-26, 1977, Monterey, California. "The Red Eye," "Practical Diagnostic and Treatment Procedures in Ophthalmology"
45. **Monterey Ophthalmology Society**, August 25, 1977, Monterey, California. "Vitreotomy in Anterior Segment Surgery"
46. **Veterans Administration Hospital**, September 2, 1977, Martinez, California. "The Red Eye"
47. **Northern California Basic Science Course**, September 9, 1977, Palo Alto, California. "Indications for Keratoplasty"
48. **Alta California Ophthalmic Research Symposium**, September 10-12, 1977, Lake Tahoe, California. "Advances in Adenoviral Keratoconjunctivitis," "Creuzfeld-Jacob Disease"
49. **Emergency Medical Care Symposium**, September 13-14, 1977, Fallen Leaf Lake, California. "Eye Emergencies: A Cookbook Approach"
50. **American Academy of Ophthalmology and Otolaryngology**, September 30-October 6, 1977, Dallas, Texas. Papers: "Double-masked Evaluation of a Poloxamer Artificial Tear" Courses: "The Skin and Eye," "Pigmented Lesions of the Conjunctive"
51. **University of California, San Francisco Grand Rounds**, October 27, 1977, San Francisco, California. "Diagnosis and management of congenital corneal opacities," "Ultrastructural studies on the anterior chamber cleavage syndrome"

52. **National Eye Institute Research Seminar**, November 7, 1977, Bethesda, Maryland. "Ultrastructural and Histochemistry of Chemical Opacities in Beagles and Siberian Huskies"
53. **Vitrectomy Microsurgery Workshop**, Instructor, November 11, 1977, Louisville, Kentucky.
54. **Cooper Vision Research**, December 1, 1977, Mountain View California, "The Use of Artificial Tears in Keratoconjunctivitis Sicca"

## **1978**

55. **7<sup>th</sup> Annual Contact Lens Seminar**, Department of Ophthalmology, University of California, Irvine, January 18, 1978, Orange County, California. "Indications and Experience with Therapeutic Hydrophilic Contact Lenses"
56. **Contact Lens Association of Ophthalmologists**, January 20, 1978, Las Vegas, Nevada. "Indications and Contraindications for Extended Wear Soft Contact Lenses"
57. **Pars Plana Endosurgery Workshop**, Instructor, January 27-28, 1978, San Jose, California.
58. **American Society of Contemporary Ophthalmology**, Instructor in Microsurgical Course and External Disease Course, January 27-February 3, 1978, Miami, Florida.
59. **UPDATE – Postgraduate Education in Ophthalmology**, March 17, 1978, San Francisco, California. Chairperson – Corneal and External Disease Section
60. **California Medical Association Ophthalmology Section Meeting**, March 19, 1978, San Francisco, California. "Vitrectomy in Anterior Segment Surgery"
61. **Tennessee State Academy of Ophthalmology**, April 13-14, 1978, Knoxville, Tennessee. "The Diagnosis and Management of the Cloudy Cornea at Birth" "Adenoviral Keratoconjunctivitis"
62. **Vitrectomy Microsurgery Workshop**, University of California, April 28-29, 1978, San Francisco, California. "Vitreous-Pupillary Block Glaucoma," "Vitreous-Corneal Touch with Edema"
63. **Association for Research in Vision and Ophthalmology**, April 30-May 5, 1978, Sarasota, Florida. "Crystalline Corneal Opacities in Siberian Huskies: Clinical, Histochemical and Ultrastructural Characteristics"
64. **International Congress of Ophthalmology**, International Society for Metabolic Diseases, May 12-23, 1978, Kyoto, Japan. "Oval Corneal Opacities in Beagles and Crystalline Corneal Opacities in Siberian Huskies"
65. **UCD Department of Ophthalmology Second Annual Clinical and Research Symposium**, June 26, 1978, Sacramento, California. "Accuracy of Specular Microscopy Endothelial Cell Counts: Comparison of Five Methods"
66. **UPDATE – Postgraduate Education in Ophthalmology**, June 9, 1978, San Francisco, California. "Surgical Physiology of the Cornea," "Patient Selection and Prognosis for Keratoplasty"
67. **Northern California Basic Science Course**, July 25, 1978, Palo Alto, California. "Corneal Physiology"
68. **Sixth Annual Family Practice Refresher Course**, August 14-16, 1978, Monterey, California. "The Red Eye," "Does your Patient Need Eye Surgery?"

69. **Northern California Basic Science Course**, August 30, 1978, Palo Alto, California. "Indications for Grafts, Flaps, and Keratectomy"
70. **Course in Emergency Medicine**, September 1, 1978, Martinez, California. "Ophthalmic Emergencies"
71. **UPDATE – Postgraduate Education in Ophthalmology**, September 22, 1978, San Francisco, California. "Aseptic Corneal Ulceration and Erosions"
72. **Ocutome Surgery Course**, September 26-30, 1978, Chapel Hill, North Carolina. "Open Sky Vitrectomy and Anterior Segment Surgery"
73. **American Academy of Ophthalmology**, October 19-29, 1978, Kansas City, Missouri. Papers: Eye Bank Association Scientific Session "Comparison of Four Methods of Counting Endothelial Cells on Specular Photomicrographs," Discussant – "Ophthalmic Findings in Bell's Palsy" by Wepman and Baum. Courses: "The Skin and Eye", "Pigmented Lesions of the Conjunctiva", "Soft Contact Lenses – Potential for Extended and Therapeutic Use" Panel: Ocutome Surgeons Meeting
74. **Massachusetts Eye and Ear Infirmary Vitrectomy Course**, November 3-4, 1978, Boston, Massachusetts, Instructor.
75. **Corneal and External Disease Course**, University of California, Irvine, November 9-10, 1978, Long Beach, California. "Corneal Dystrophies," "Vitrectomy in Anterior Segment Surgery," "Management of Infants with Congenital Cloudy Corneas"
76. **UPDATE – Postgraduate Education in Ophthalmology**, December 15, 1978 San Francisco, California. "Differential Diagnosis and Management of the Cloudy Cornea at Birth," "Tumors of the Conjunctiva and Cornea" (with Roth AM)

## **1979**

77. **American Society of Contemporary Ophthalmology**, January 15-16, 1979, Las Vegas, Nevada. Corneal and External Disease Course, Instructor.
78. **Utah Ophthalmological Society**, University of Utah, Visiting Professor, February 12, 1979, Salt Lake City, Utah. "The Use of Mechanical Vitrectomy Instruments in Anterior Segment Surgery"
79. **California Medical Association Glaucoma Update**, March 10-11, 1979, Los Angeles, California, Moderator.
80. **Vitrectomy Symposium and Workshop**, April 18-20, 1979, San Francisco, California. "Vitreopupillary Block Glaucoma," Instructor
81. **Association for Research in Vision and Ophthalmology**, April 30-May 5, 1979, Sarasota, Florida. "Ultrastructural classification of abnormal collagen tissue in the posterior cornea (posterior collagen layer)," "Oval corneal opacities in hypercholesterolemic beagles" (with Ekins MB, Roth AM, Spangler WL, Sodhi HS, and Gupta, LM)
82. **Devers Eye Clinic – Current Concepts in Ophthalmology**, June 13-16, 1979, Sunriver, Oregon. "A systematic approach to vitrectomy and anterior segment surgery," "The Skin and Eye"
83. **UCD Department of Ophthalmology Third Annual Clinical and Research Symposium**, June 25, 1979, Sacramento, California. "Posterior collagen layer (PCL) of the cornea"
84. **Northern California Basic Science Course**, July 30, 1979, Stanford, California. "Corneal Physiology"

85. **Emory University Ocutome Surgery Workshop**, September 20, 1979, Atlanta, Georgia. "Anterior Segment Vitrectomy"
86. **Boston Corneal Research Conference**, September 28-29, 1979, Boston, Massachusetts. "Corneal Perforation from Exposure Keratitis Following Herpes Zoster Ophthalmicus" (with Ekins MB)
87. **Wayne State University**, October 3-4, 1979, Detroit, Michigan. Visiting Professor.
88. **Detroit Outcome Course**, October 5-6, 1979, Detroit, Michigan. "Anterior Segment Microsurgery"
89. **American Academy of Family Physicians**, October 10, 1979, Atlanta, Georgia. "The Red Eye"
90. **American Academy of Ophthalmology**, November 2-9, 1979, San Francisco, California. Papers: "Corneal epithelial dysplasia. Clinical and histologic study of 17 cases" – Castroviejo Society, "Oval lipid in Siberian huskies" – Keynote address to American College of Veterinary Ophthalmologists, "The use of vitrectomy instruments in anterior segment surgery: principles and results in 95 consecutive cases" American Academy of Ophthalmology, "Aging of normal individual human corneal endothelial cells" – Eye Bank Association of America Scientific Session. Courses: "Advanced course in biomicroscopy" – Joint Commission on Allied Health Personnel in Ophthalmology, "The Skin and Eye," "Common Problems in External Disease," "Vitrectomy instruments for the anterior segment surgeon," "Pigmented members of the conjunctive," "Current Concepts in Extended Wear of Soft Contact Lenses" Panel: "How to Avoid Potential Medical/Legal Problems" – Joint Symposium of Association of Surgical Ophthalmic Registered Nurses, Moderator; "Epidermolysis Bullosa Simplex Keratopathy" by Boruchoff, Discussant; "Herpetic Whitlow" by Eiferman, Discussant.
91. **Georgia Medical Association**, Ophthalmology Section, November 15-18, 1979, Atlanta, Georgia. "Mechanical Vitrectomy in 100 Anterior Segment Surgical Cases: A Systematic Approach"
92. **Cornea Conference, Wills Eye Hospital**, November 30-December 1, 1979, Philadelphia, Pennsylvania. "Corneal Dystrophies," "Congenital Corneal Disease and Surgery," "Corneal Erosions and Non-Infectious Ulcers," "Corneal Preservation and Specular Microscopy"
93. **Glaucoma Update: Advances in Diagnosis and Treatment**, December 6-7, 1979, Emory University, Atlanta, Georgia. "Management of Uncontrolled Glaucoma with Cyclocryotherapy"

## **1980**

94. **A New Orleans Workshop in Anterior Segment Vitrectomy**, February 1-2, 1980, Tulane University, New Orleans, Louisiana. "'Stepladder' Approach to Vitrectomy," "Secondary Membranes," "Vitreocorneal Touch," "Aphakic Keratoplasty"
95. **Florida Midwinter Seminar**, February 25-March 1, 1980, Ft. Lauderdale, Florida. "Management of Patients with Keratoconjunctivitis Sicca," "Anterior Membrane and Endothelial Corneal Dystrophies – Diagnosis and Management"
96. **Albany Medical College**, March 6, 1980, Albany, New York. Visiting Professor. "Dynamic Biomicroscopic Examination of the Eye," "Diagnosis and Management of the Cloudy Cornea at Birth"
97. **Northeastern New York Ophthalmological Society**, March 6, 1980, Albany, New York. Guest Lecturer. "Tear Film Dysfunction – Diagnosis and Management."

98. **American Society of Contemporary Ophthalmology**, March 9-14, 1980, Orlando, Florida. Instructor for External Ocular Diseases Course – “Diagnosis and Management of Blepharitis and its Complications,” “Management of the Dry Eye,” and “Specular Microscopy – What it Can and Cannot Tell Us.” Cornea/External Diseases Program – “Sterile Corneal Erosions and Ulcerations”
99. **Emory University Department of Ophthalmology**, Workshop on Radial Keratotomy for Myopia, March 15, 1980, Atlanta, Georgia. Moderator.
100. **American Eye Study Club**, March 30-April 1, 1980, Rancho Mirage, California. “Corneal Opacities in Beagles and Huskies,” “Posterior Collagenous Layer (PCL) of the Cornea: Ultrastructural Classification of Collagenous Tissue Posterior to Descemet’s Membrane in 30 Cases.”
101. **Scientific Research Laboratory of Experimental and Clinical Problems of Eye Surgery**, April 2-10, 1980, Moscow, Russia. Visiting Lecturer. “Use of Vitrectomy Instruments in Anterior Segment Surgery,” “Advances in Specular Microscopy”
102. **International Symposium of the German Ophthalmologic Society on Herpetic Eye Diseases**, April 12-14, 1980, Freiburg, Germany. “Corneal Perforation from Exposure Keratitis Following Herpes Zoster Ophthalmicus” (Poster session)
103. **Workshop on Specular Microscopy of the Corneal Endothelium**, April 14-16, 1980, Zurich, Switzerland. “Computerized Image Processing of Endothelial Cell Photomicrographs – Current Progress,” “Normal Endothelial Cell Aging – Utilization of Coefficient of Skewness,” “A Statistical Approach to the Minimal Number of Endothelial Cells Required for Accurate Measurement”
104. **VI Congress of the European Society of Ophthalmology**, April 20-25, 1980, Brighton, England. “Ultrastructural Classification of Abnormal Collagenous Tissue on the Posterior Cornea: the Posterior Collagenous Layer of the Cornea,” “Individual Corneal Endothelial Cell Changes with Age: A Specular Microscopic Study.” Panel Member of round table discussions: Instrumentation for Corneal Endothelial Assessment and Current Status of Vitrectomy
105. **Association for Research in Vision and Ophthalmology**, May 5-9, 1980, Orlando, Florida. Specular Microscopy Symposium – “Comparison of Four Methods of Measuring Specular Micrographs.” Radial Keratotomy Workshop – Moderator. Papers: “Dysplasia of the Corneal Epithelium: Clinical and Pathologic Description of 17 Cases” (with Ekins MB), “Individual Corneal Endothelial Cell Size Correlates Poorly with Age” (with Krohn MA, Ford GE, Rosenblatt LS), “Isolation of Fibronectin from Bovine Aqueous Humor (with Reid T, Kenney MC)
106. **Medical College of Wisconsin Vitrectomy Course**, June 3-6, 1980, Milwaukee, Wisconsin. “Anterior Segment Vitrectomy: Introduction,” “Open Sky Vitrectomy and Secondary Membranes,” “Anterior Lensectomy,” “Anterior Segment Complications”
107. **Medical College of Wisconsin Alumni Association**, June 6, 1980, Milwaukee, Wisconsin. “Radial Keratotomy”
108. **Emory University Department of Ophthalmology**, Postgraduate Seminar on Soft Contact Lenses Daily Wear and Extended Wear Concepts and Office Fitting Procedures, June 13-14, 1980, Atlanta, Georgia. “Therapeutic Soft Contact Lenses: Indications and Lens Selection”
109. **Eye Bank of the San Diego County Medical Society**, Current Concepts in Ophthalmology, June 19-22, 1980, San Diego, California. “Corneal Transplants – Indications and Results,” “Aseptic Corneal Epithelial and Stromal Ulcerations,” “The Skin and the Eye”

110. **Colby College**, Sixth Annual Ophthalmology Seminar, August 10-14, 1980, Waterville, Maine. "Sterile Corneal Erosions and Ulcerations," "Neonatal Corneal Opacities – Differential Dx and Management," "Extended Wear Contact Lenses," "Specular Microscopy of the Cornea," "Vitreotomy in Anterior Segment Surgery," "Tears – Too Many and Too Few"
111. **IV International Congress for Eye Research**, October 3, 1980, New York, New York. "Radial Keratotomy"
112. **American College of Surgeons Sixty-Sixth Annual Clinical Congress**, October 20-21, 1980, Atlanta, Georgia. Postgraduate Course – Ophthalmic Surgery: Update of Pediatric Surgery. "Management of Acute Penetrating Anterior Segment Trauma in Children"
113. **American Academy of Ophthalmology**, November 1-7, 1980, Chicago, Illinois. Papers: "A Prospective, Multicenter, Clinical Trial of Radial Keratotomy for Myopia" – Keratorefractive Society; "Evaluation of Donor Cornea" – American Academy of Ophthalmology Symposium on Modern Eye Banking. Courses: "Advanced Slit Lamp Exam Techniques" – Joint Commission on Allied Health Personnel in Ophthalmology "The Skin and Eye;" "Anterior Segment Surgery Using Vitrectomy Techniques;" "Ocutome Surgery for the Anterior Segment Surgeon;" "Management of Common Office Problems in Cornea and External Disease;" "New Concepts in Extended Wear Hydrogel Lenses for Corneal Diseases" Panels: "The Management of Conjunctival Neoplasms and Squamous Cell Carcinomas of the Limbus" by Fraunfelder for Castroviejo Society, Discussant; "The Role of the Registered Nurse, the Technician, and the Physicians' Assistant in Ophthalmic Patient Care" – Joint Symposium of the American Academy of Ophthalmology and American Society of Ophthalmic Registered Nurses, Moderator and Panel Discussant of "Implementing an Eye Unit in a General Hospital: What are the Secrets of Success?"
114. **Current Controversies in Refractive Surgery**, November 15, 1980, University of Southern California, Los Angeles, California. "Rationale and Need for Organization of Clinical Trials of Radial Keratotomy"
115. **Southern Medical Association**, November 18, 1980, San Antonio, Texas. "Patient Selection for Keratoplasty"
116. **Medical Association of Georgia Scientific Assembly**, November 22, 1980, Atlanta, Georgia. "The Current Status of Radial Keratotomy – National Study"
117. **Emory University Department of Ophthalmology**, Postgraduate Seminar on Pediatric Ophthalmology and Strabismus: Update, December 1-2, 1980, Atlanta, Georgia. "Anterior Segment Anomalies in Children"
118. **31<sup>st</sup> Annual Post-Graduate Review Course: Ophthalmology**, December 5-6, 1980, SUNY Upstate Medical Center, Syracuse, New York. "Selection of Patients for Keratoplasty," "Aseptic Corneal Epithelial and Stromal Erosions," "The Skin and Eye," "Developmental Anomalies of the Anterior Segment"
119. **National Eye Institute Prospective Evaluation of Radial Keratotomy, Surgical Standardization Meeting and Organizational Meeting of PERK Investigators, Monitors, and NEI Staff**, December 13-14, 1980, Crystal City, Virginia. Moderator.

## **1981**

120. **Atlanta Ophthalmological Society**, January 15, 1981, Atlanta Georgia. "Radial Keratotomy"
121. **Clinical Focus: Ophthalmology**, January 20-24, 1981, SUNY Upstate Medical Center, Sugarbush, Vermont. "The Skin and Eye," "Patient Selection for Keratoplasty," "Aseptic Corneal Epithelial and Stromal Erosion," "Specular Microscopy Limitations and Clinical Use"

122. **1981 Mid Winter National Meeting of the Contact Lens Association of Ophthalmologists, Surgical Correction of Refractive Errors Symposium**, February 1, 1981, Las Vegas, Nevada. "A Prospective, Multicenter, Clinical Trial of Radial Keratotomy for Myopia"
123. **Frontiers in Ophthalmology**, February 12-14, 1981, St. Luke's Hospital Medical Center, Phoenix, Arizona. "Patient Selection for Keratoplasty," "The Current Status of Radial Keratotomy – National Study," "Vitreotomy in Anterior Segment Surgery"
124. **The 58<sup>th</sup> Southern Educational Congress of Optometry**, Extended Wear and Alternatives in the 1980's, February 26, 1981, Atlanta, Georgia. "Radial Keratotomy in Perspective"
125. **Update in Ophthalmology, Chattanooga Ophthalmological Society**, February 28 and March 1, 1981, Chattanooga, Tennessee. "Patient Selection for Keratoplasty," "Use of Vitrectomy Instruments in Anterior Segment Surgery"
126. **Emory University Department of Ophthalmology**, Ocutome Workshop, March 13-14, 1981, Atlanta, Georgia. "Anterior Segment Vitrectomy"
127. **American Society of Contemporary Ophthalmology**, March 18-21, 1981, Orlando, Florida. Instructor for External Ocular Diseases Course – "Management of the Dry Eye," "Patient Selection for Keratoplasty," and "Sterile Corneal Erosions and Ulcerations." Cornea/External Diseases Program – "Radial Keratotomy for Myopia." Instructor for Keratorefractive Surgery Course – "Radial Keratotomy"
128. **Wills Eye Hospital 33<sup>rd</sup> Annual Conference**, April 23-25, 1981, Philadelphia, Pennsylvania. "Kerato-Refractive Surgery (including Radial Keratotomy)"
129. **Association for Research in Vision and Ophthalmology**, April 27-May 1, 1981. Meeting of National Eye Institute Prospective Evaluation of Radial Keratotomy Investigators – Moderator. Sarasota, Florida. Papers: "Specular Microscopy of Posterior Polymorphous Endothelial Dystrophy" (with Hirst LW, Quigley HA, Stark WJ), "Computer Analysis of Corneal Endothelial Cells" (with Ford GE) Posters: "Measurement of Excess Fatty Acid, Cholesterol, and Phospholipid in Oval Corneal Opacities in Beagles" (with Ekins MB, Sgbutas DS, Kanen GJ), "Minimum Sample Size Required for the Quantitative Description of the Corneal Endothelial Density" (with Garsd A, Ford GE, Rosenblatt LS)
130. **The Virginia Society of Ophthalmology and Otolaryngology, Inc.**, 62<sup>nd</sup> Annual Meeting, May 7-8, 1981, Virginia Beach, Virginia. "Patient Selection for Keratoplasty," "A Systematic Approach to the Use of Vitrectomy Instruments"
131. **Southeast Regional Eye Bank Meeting**, May 16, 1981, Tuscaloosa, Alabama. "Patient Selection for Keratoplasty"
132. **First Annual Combined Alumni Meeting, Cornell University Medical College**, May 22, 1981, New York, New York. "Radial Keratotomy – National Eye Institute Evaluation," "Intrastromal Corneal Implants"
133. **Semi-Annual Meeting of the Keratorefractive Society**, May 23, 1981, New Orleans, Louisiana. "The Current Status of the PERK Study"
134. **Emory University Department of Ophthalmology**, Post Graduate Seminar – Soft Contact Lenses: Extended Wear and Daily Wear, June 5-6 1981, Atlanta, Georgia. "Update on Radial Keratotomy: A Comparison to Extended Wear Soft Contact Lenses"
135. **Society of Neuromuscular Sciences Seventh Annual Conference**, July 27-31, 1981, Thredbo, New South Wales, Australia. "Radial Keratotomy for Myopia," "Current Status of Corneal Transplantation"

136. **Intraocular Workshop 1981**, Monash University, August 10-13, 1981, Course Director, Clayton, Australia. "Tonometry in Patients with Severely Distorted Corneas," "Functional Approach to Vitrectomy Surgery," "Open Sky and Closed Eye Removal of Vitreous – Vitreous Loss, Vitreocorneal Touch, Vitreous Wick," "Pupillary Membranes, Epithelial Ingrowth, Hyphema," "Endophthalmitis"
137. **Royal Victorian Eye & Ear Hospital**, August 14, 1981, Melbourne, Australia. "Radial Keratotomy in Perspective"
138. **Twelfth Corneal Research Conference, Massachusetts Eye and Ear Infirmary**, September 18 & 19 1981, Boston, Massachusetts. "Amino Acid Analysis of Ultrastructure of Descemet's Membrane from Normal, Fuchs' Endothelial Dystrophy and Keratoconus Corneas" (with M.C. Kenney and T. Demlow), "The Mechanical Properties of Human Corneal Strips" (with R.P. Vito, J.F. Frazier, B. McCarey, and D. Vawter)
139. **American Academy of Ophthalmology**, November 1-6, 1981, Atlanta, Georgia. Papers: "Pediatric Keratoplasty" (with K.D. Summers and H.D. Cavanagh), Results of Penetrating Keratoplasty in Pseudophakic and Aphakic Corneal Edema," and "Current Status of the National Eye Institute Prospective Evaluation of Radial Keratotomy (NEI – PERK)" – American Academy of Ophthalmology Scientific Session on Reconstructive Corneal and Keratorefractive Surgery; "Calibrated Diamond Knives" Microsurgery Study Group; "Innovations in Diamond Knives" International Society of Refractive Keratoplasty Courses: "Ocutome Surgery for the Anterior Segment Surgeon;" "Advances in Management of Common Corneal and External Disease Problems," Course Director; "The Skin and Eye," Course Director; "Anterior Segment Surgery Using Vitrectomy Techniques," Course Director; "New Concepts in Extended Wear Hydrogel Lenses for Corneal Diseases and Aphakia" Symposia: "Pathologic Responses of the Corneal Endothelium" at Corneal Endothelium Symposium – Symposium Director; Joint Symposium of the American Academy of Ophthalmology and American Society of Ophthalmic Registered Nurses, Co-Chairman – "Is Cost Containment Possible in Today's Inflationary World?"
140. **Medical Association of Georgia Scientific Assembly**, November 21, 1981, Atlanta, Georgia. "Results of Penetrating Keratoplasty in Pseudophakic and Aphakic Corneal Edema"
141. **Invasion of the Cornea and Lens, University of California**, December 3-4, 1981, San Francisco, California. "Keratoplasty in Infants and Young Children," "Results of Penetrating Keratoplasty in Aphakic and Pseudophakic Corneal Edema," "Management of Corneal Trauma," "Post-Operative Management of Keratoplasty," "Patient Selection and the Future of Extended Wear Contacts for Myopia," "National Eye Institute Prospective Evaluation of Radial Keratotomy (PERK Study)"
142. **Advances in Ophthalmology Symposium**, The Swedish Hospital Medical Center, December 14, 1981, Seattle, Washington. "Radial Keratotomy"
143. **Guest Lecturer, University of Wisconsin**, December 28, 1981, Madison, Wisconsin. "Diagnosis and Management of Congenital Anterior Segment Anomalies"

## **1982**

144. **Columbus Ophthalmology Society**, January 12, 1982, Columbus, Georgia. "Management of Penetrating Keratoplasty"
145. **Eleventh Midwinter Seminar in Ophthalmology**, Colorado Ophthalmological Society, January 16-20, 1982, Vail, Colorado. "Other Types of Refractive Surgery," "PERK Study," "Evaluation and Treatment of the Dry Eye," "Chlamydial Diseases," "Anterior Segment Vitrectomy in the Care of Anterior Segment Wounds," "Indications for Penetrating Keratoplasty"
146. **New York Academy of Medicine**, Eye Section, February 15, 1982, New York, New York. "Radial Keratotomy"

147. **Ocutome Postgraduate Course, Emory University**, February 26, 1982, Atlanta, Georgia. "Application of Vitreous Instrumentation"
148. **American Academy of Ophthalmology Regional Update Course**, March 5-7, 1982, Philadelphia, Pennsylvania. "Corneal Edema, Specular Microscopy," "Corneal Dystrophies," "Anterior Segment Vitrectomy," "Update of Prospective Evaluation of Radial Keratotomy"
149. **American Society of Contemporary Ophthalmology**, March 18, 1982, Orlando, Florida. Cornea/External Diseases Program – "Long-term Corneal Complications of Extended Wear Contact Lenses in Keratoplasty and Aphakia." Instructor for External Ocular Diseases Course – "Management of Dry Eyes," "Corneal Dystrophies"
150. **Symposium on Extracapsular Cataract Extraction and Radial Keratotomy, University of Texas Medical School at Houston**, March 19-20, 1982, Houston, Texas. "Radial Keratotomy – National Eye Institute PERK Study"
151. **Atlanta Eye Congress**, April 4, 1982, Atlanta, Georgia. "Overview of Patient Selection, Instrumentation, Technique, and Results of Radial Keratotomy," "Where is it going via PERK?"
152. **1<sup>st</sup> Annual Clinical Ophthalmology Meeting, University of Utah**, Division of Ophthalmology, April 14-17, 1982, Snowbird Resort, Utah. "Update on the PERK Study"
153. **Visiting Professor, Yale University**, April 30-May 1, 1982, New Haven, Connecticut. "Patient Selection for Keratoplasty," "Corneal Dystrophies," "Vitrectomy Instruments in Anterior Segment Surgery," "The Skin and Eye"
154. **Association for Research in Vision and Ophthalmology**, May 3-7, 1982, Sarasota, Florida. Posters: "Localization of Fibronectin and Fibrinogen/Fibrin in Descemet's Membrane from Normal, Fuchs' Endothelial Dystrophy and Keratoconus Corneas" (with Kenney MC, Hinds D), "Comparative Study of the Biomechanical Properties of Corneal Strips" (with Vito RP, Vawter D, Leveille AS), "Elastase-Sensitive Intermellar Fibrils (ILF's) in Rabbit Corneal Stroma" (with Carlson EC)
155. **Research to Prevent Blindness Science Writers Seminar in Eye Research and Vision**, May 19, 1982, Arlington, Virginia. "Prospective Evaluation of Radial Keratotomy – the PERK Study"
156. **Cornell University Medical College**, Frontiers in Ocular Surgery, June 11-12, 1982, New York, New York. "Problems in the Evaluation of Radial Keratotomy"
- 157-221 MISSING**
222. **International Society of Refractive Keratoplasty and Contact Lens Association of Ophthalmologists**, January 12-17, 1986, Las Vegas, Nevada. Radial keratotomy; Prevention of astigmatism in keratoplasty; Future concepts mini-course.
223. **Emory University School of Medicine**, A Practical Course in Radial Keratotomy, January 24-25, 1986, Atlanta, Georgia. Alternatives in the management of myopia; Published results of radial keratotomy; Complications of radial keratotomy.
224. **University of Lund**, January 30-31, 1986, Upsala, Sweden. Basement membrane – its implication in ophthalmology; Keratoplasty in patients with intraocular lenses – should the intraocular lens be replaced or not?; Radial keratotomy – will it replace glasses and contact lenses?
225. **The Wilmer Institute**, March 16-23, 1986, Vail, Colorado. Current concepts in ophthalmology; Classification of refractive keratoplasty – radial keratotomy background and development.

226. **The American Society of Cataract and Refractive Surgery**, April 17, 1986, Los Angeles, California. Complications of radial keratotomy with emphasis on histopathology.
227. **Western North Carolina Society of Ophthalmology**, April, 1986, Asheville, North Carolina. Eye diseases in relation to skin.
228. **Association for Research in Vision and Ophthalmology**, April 27-May 2, 1986, Sarasota, Florida. Chairperson – Cornea.
229. **Freie Universitat**, Visiting Professor of Ophthalmology, West Berlin, Germany. Classification of refractive keratoplasty. International Wissenschaftsforum Heidelberg, May 15-18, 1986, Heidelberg, Germany. Diagnostic applications of lasers in ophthalmology – requirements, methods for cornea/lens recognition.
230. **V Congresso da Sociedade Norte-Nordeste de Oftalmologia**, May 28-31, 1986, Natal, Brazil. Course on refractive surgery; Ocular external diseases round table; Treatment of ocular toxoplasmosis; Cataract surgery + IOL complications round table.
231. **18<sup>th</sup> Annual Scientific Congress of the Royal Australian College of Ophthalmologists**, September 27-30, 1986, Sydney, Australia. Classification of and recent advances in refractive corneal surgery. Results of the Prospective Evaluation of Radial Keratotomy study.
232. **The 40<sup>th</sup> Scientific Conference of the Ophthalmological Society of New Zealand**, September 22-26, 1986, Auckland, New Zealand. The posterior collagenous layer of the cornea – a response of the corneal endothelium to insult; The Prospective Evaluation of Radial Keratotomy (PERK) study; Management of pseudophakic corneal edema.
233. **American Academy of Ophthalmology**, November 8-13, 1986, New Orleans, Louisiana. Courses: Advanced anterior segment photography, E. Choromokos, M. Maio, G. Waring; What's new in 1986: a selective guide to scientific posters and technical exhibits for the discriminating anterior segments surgeon, A. Nesburn, G. Waring, R. Kratz, J. Hunkeler. Presentations: Stability of Refraction after RK; How safe and effective are secondary keratotomy procedures for the radial keratotomy patient; Eyesight and eye specialties; Management of the iris, angle, IOL and vitreous in pseudophakic corneal edema – a prospective study; Results of the Prospective Evaluation of Radial Keratotomy study three years after surgery; Scanning slit delivery system.
234. **VIII Corso Interamericano de Oftalmologia Clinica, Bascom Palmer Eye Institute**, November 20, 1986, Miami, Florida. Survey of refractive surgery; Radial keratotomy.
235. **University of Tennessee**, November 26, 1986, Memphis, Tennessee. Visiting lecturer. Corneal dystrophies.
236. **Emory University School of Medicine**, Postgraduate Course on Ophthalmology for the Coming Decade, November 5-6, 1986, Atlanta, Georgia. Management of complications following penetrating keratoplasty; Predictability in radial keratotomy.

## **1987**

237. **University of Tennessee**, Refractive Surgery Update, January 9, 1987. Promises and pitfalls of radial keratotomy and surgical management of pseudophakic corneal edema.
238. **Contact Lens Association of Ophthalmologists and International Society of Refractive Keratoplasty**, January 14-18, 1987, Las Vegas, Nevada. Instructor: Basic Contact Lens course.

239. **Hotel Dieu de Paris**, Conference Internationale sur la Chirurgie Refractive, January 31, 1987, Paris, France. Results of the PERK study at three years.
240. **Los Angeles Research Study Club**, February 9-11, 1987, Los Angeles, California. Management of pseudophakic corneal edema; Current findings in the PERK study; The skin and eye; Laser refractive corneal surgery.
241. **Aspen Corneal Society Meeting**, February 24-28, 1987, Aspen, Colorado. Surgical management of pseudophakic corneal edema; Promises and problems of laser refractive surgery; Selective suture removal in management of astigmatism; Inherent surgical and biological variability in radial keratotomy.
242. **Emory University/Georgia Institute of Technology**, March 20, 1987, Atlanta, Georgia. Opportunities for research collaboration between Emory and Georgia Institute of Technology, Featured speaker.
243. **American Eye Study Club 31<sup>st</sup> Annual Meeting**, March 29-April 4, 1987, Longboat Key, Florida. Excimer laser corneal surgery – or will Buck Rogers shoot himself in the toe?
244. **American Society of Cataract and Refractive Surgery Meeting**, April 6-10, 1987, Orlando, Florida. Pathology of refractive surgery – moderator; Pathology of laser photoablative keratectomy – speaker; Stability of Refraction during three years after radial keratotomy in the PERK study – speaker.
245. **Atlanta Ophthalmological Society**, April 23, 1987, Atlanta, Georgia. Development and evaluation of refractive surgery – 1987.
246. **World Congress on the Cornea III**, April 27-May 1, 1987, Washington, D.C. Radial keratotomy; Current status of the importance for corneal research of clinical trials for the upcoming decade (1987-1997)
247. **Bethesda Navy Hospital**, April 29, 1987, Bethesda, Maryland. Present status of PERK.
248. **Association for Research in Vision and Ophthalmology**, May 2-8, 1987, Sarasota, Florida. Moderator of cornea session.
249. **Georgia Lions Convention**, May 16-17, 1987, Savannah, Georgia. Refractive Surgery.
250. **IX International Course of Ophthalmology**, May 24-29, 1987, Barcelona, Spain. Surgical management of pseudophakic corneal edema; Radial keratotomy.
251. **Dinard Ophthalmological Society**, June 5-6, 1987, Dinard, France. Results of PERK.
252. **International Cataract, Implant, Microsurgical & Refractive Keratoplasty Meeting**, June 13-15, 1987, Singapore. Radial and astigmatic keratotomy co-chairman; Classification of lamellar refractive keratoplasty; Hydrogel intracorneal lenses – laboratory and clinical experience; laser keratomileusis – speaker.
253. **Eye, Ear, Nose, and Throat Hospital**, June 17, 1987, Mandalay, Burma. Management of infectious microbial corneal ulcers.
254. **Eye, Ear, Nose, and Throat Hospital**, June 22-23, 1987, Rangoon, Burma. Visiting Surgeon and Lecturer. Anterior chamber intraocular lenses after intracapsular cataract extraction; Update on refractive keratoplasty; Management of corneal ulcers; Surgical demonstrations.
255. **Emory University School of Medicine**, Fourth Biennial Contact Lens Seminar, June 25-27, 1987, Atlanta, Georgia. Refractive surgery update: alternative to contact lens wear.
256. **National Eye Institute**, August 26, 1987, Bethesda, Maryland. Results of PERK.

257. **15<sup>th</sup> Corneal Research Conference**, September 10-12, 1987, Massachusetts Eye & Ear Institute, Boston, Massachusetts. Surgery and refractive surgery.
258. **5<sup>th</sup> Congress of the Intraocular Implant Lens Council**, September 13-18, 1987, Jerusalem, Israel. Refractive Symposium, Director. Penetrating keratoplasty for pseudophakic corneal edema with exchange of intraocular lenses; Results of prospective evaluation of radial keratotomy (PERK) study 3 years after surgery; Corneal wound healing after surface area photoablation in rabbits.
259. **Assir Regional Hospital**, Seminar on Common Eye Disorders, September 23-24, 1987, Abha, Saudi Arabia. Refractive surgery for the non-ophthalmologists.
260. **King Khaled Eye Specialist Hospital**, September 30, 1987, Riyadh, Saudi Arabia. Incidence and management of pseudophakic corneal edema.
261. **IBM Science Center**, Visiting Scientist, October 2, 1987, Paris, France. Excimer laser corneal surgery.
262. **American Academy of Ophthalmology**, November 8-12, 1987, Dallas, Texas. Update on radial and astigmatic keratotomy; Variables in surgical technique; PERK results.
263. **4<sup>th</sup> International Congress on Cataract and Refractive Microsurgery**, December 3-6, 1987, Florence, Italy. Update on radial keratotomy, Management of pseudophakic corneal edema, Astigmatism after penetrating keratoplasty.

## **1988**

264. **SPIE OE LASE '88**, January 10-17, 1988, Los Angeles, California. Problems in excimer laser surface ablation of the cornea.
265. **\*Contact Lens Association of Ophthalmologists**, January 13-16, 1988, Las Vegas, Nevada. Moderator, Symposium on laser refractive surgery.
266. **Castroviejo Society**, February 1-5, 1988, Kauai, Hawaii. Video imaging system for corneal topography.
267. **Utah Ophthalmological Society Winter Meeting**, February 8-13, 1988, Salt Lake City, Utah. Corneal responses to disease and insult; Surgical management of pseudophakic corneal edema; Current status of refractive surgery; Keratoplasty with emphasis on surgical technique and management of postop complications – especially that of surgically-induced astigmatism.
268. **Contact Lens Society of America**, February 18-21, 1988, Las Vegas, Nevada. Paper: Refractive surgery and contact lenses and their mutual impact on each other. Course: Contact lens fitting after penetrating keratoplasty.
269. **The 9<sup>th</sup> Afro-Asian Congress of Ophthalmology**, February 22-26, 1988, Cairo, Egypt. Course: Penetrating keratoplasty and refractive keratoplasty. Paper: Radial keratotomy, current status.
270. **Annual Scientific Meeting of the Saudi Ophthalmological Society**, Visiting Ophthalmic Professor and Consultant, February 26-March 3, 1988, Riyadh, Saudi Arabia. Current status of refractive keratoplasty; Surgical management of pseudophakic corneal edema; Radial keratotomy update.
271. **Emory University School of Medicine Annual Postgraduate Course**, March 11-12, 1988, Atlanta, Georgia. New laboratory and clinical developments in refractive surgery.

272. **Current Concepts in Ophthalmology**, March 12-19, 1988, Vail, Colorado. Laser surgery of the cornea; Corneal responses to disease and injury; Surgical management of pseudophakic corneal edema; Radial keratotomy: comparison of published results; Keratotomy for naturally occurring astigmatism; Current status of laser refractive surgical procedures; Variables affecting the surgical technique of radial keratotomy; Future of refractive corneal surgery; Intracorneal lenses for refractive correction: laboratory and clinical studies.
273. **40<sup>th</sup> Annual Wills Eye Hospital Conference**, March 17-19, 1988, Philadelphia, Pennsylvania. Refractive corneal surgery – promises and pitfalls.
274. **Spotlight on Research at Emory and Georgia Tech**, April 11-13, 1988, Atlanta, Georgia. Computer-aided surgery of the cornea.
275. **Annual Congress of the Ophthalmological Society of the United Kingdom**, April 20-22, 1988, Harrogate, England. Refractive surgery symposium. Refractive surgery. Paper: Corneal grafting in children including differential diagnosis of corneal opacities at birth; Reconstruction of pseudophakic edema.
276. **European Refractive Surgery Society**, 2<sup>nd</sup> International Symposium, May 12-13, 1988, Paris, France. Stability of radial keratotomy over 4 years and the Prospective Evaluation of Radial Keratotomy study; Technical parameters for laser refractive corneal surgery; The effect of surgery at different radiant exposures.
277. **International Ophthalmic Microsurgery Study Group**, May 21-25, 1988, Madeira, Spain. The use of argon fluoride excimer lasers in refractive surgery.
278. **University of California Medical School**, Ophthalmology in the Year 2020 Dedication, June 1-3, 1988, San Francisco, California. Refractive keratotomy: today's problems and tomorrow's expectations.
279. **Ruth-Presbyterian-St. Luke's Medical Center** Corneal Surgery Update, June 24-25, 1988, Chicago, Illinois. Penetrating keratoplasty: advanced techniques including improvements in recipient trephination and sequential suture removal using photokeratoscopic analysis of corneal topography; RK: its current status and future; Advances in refractive and laser surgery; Anterior segment reconstruction for pseudophakic bullous keratopathy. Courses: Epikeratophakia; Penetrating keratoplasty; Radial and astigmatic keratotomy.
280. **\*2<sup>nd</sup> International Cataract, Implant, Microsurgical and Refractive Keratoplasty Meeting**, July 1-3 1988, Nagoya, Japan. Refractive surgery lectures (moderator). RK: the current status of refractive corneal surgery; Radial keratotomy – a comparison of 3 studies; Laser refractive surgery of the cornea – promises and pitfalls; Use of Healon in anterior ocular segment reconstruction for pseudophakic corneal edema.
281. **\*Sixth Congress of the European Intraocular Implant Lens Council**, August 14-18, 1988, Copenhagen, Denmark. Refractive surgery program (organizer/consultant). Computer-assisted measurement of topography of entire cornea; Radial keratotomy; The management of pseudophakic bullous keratopathy; Symposium on outpatient surgery.
282. **\*8<sup>th</sup> International Congress of Eye Research**, September 4-8, 1988, San Francisco, California. Research problems in refractive surgery (organizer); Major unresolved problems in refractive corneal surgery: predictability, stability, adjustability.
283. **Eighteenth Cambridge Ophthalmological Symposium**, September 8-9, 1988, Cambridge, England. The role of the limbus in refractive surgery.
284. **\*Emory University Symposium on Refractive Surgery: Clinical Frontiers and Laboratory Sciences**, September 16, 1988, Atlanta, Georgia. Clinical frontiers (moderator). Radial keratotomy in clinical practice

285. **Deutsche Ophthalmologische Gesellschaft**, September 18-21, 1988, Berlin, West Germany. Keratorefractive surgery.
286. **Research to Prevent Blindness, Inc., Tenth National Scientific Writers' Seminar in Eye Research**, September 25-28, 1988, Arlington, Virginia. Laser corneal surgery for Refractive errors.
287. **American Academy of Ophthalmology**, October 8-12, 1988, Las Vegas, Nevada. Eyesight on Eye Specialties: a Layperson's View (scientific session): Cornea. Human excimer laser corneal surgery: a preliminary report (discussant). Human excimer laser lamellar refractive keratectomy – a clinical study (discussant). Reproducibility of corneal topographic measurements with keratometry, photokeratoscopy and corneal modeling (scientific poster). Refractive surgery updates: Astigmatism (instruction course). Anterior segment surgery: IOLs and refractive keratoplasty updates: Results and status of radial keratotomy and other refractive corneal surgical procedures (instruction course). What's new in 1988: a selective guide to the scientific posters and technical exhibits for the anterior segment surgeon (instruction course). Refractive surgery for spherical refractive errors: a practical course (introduction course).
288. **\*Second International Workshop on Laser Corneal Surgery**, October 14-15, 1988, Boston, Massachusetts. Laser corneal surgery: clinical studies (moderator).
289. **Workshop on Accommodating Advances in Ophthalmology in a Cost Containment Environment**, November 3-4, 1988, Washington, D.C. Advances in therapy for diseases of the lens and refractive errors.
290. **Wills Eye Hospital 7<sup>th</sup> Biennial Corneal Conference**, November 4-5, 1988, Philadelphia, Pennsylvania. Refractive results after penetrating keratoplasty with IOL implantation.
291. **Georgia Society of Ophthalmology**, November 12, 1988, Atlanta, GA. Refractive results after penetrating keratoplasty and intraocular lens implantation.
292. **University of British Columbia Department of Ophthalmology**, November 25, 1988, Vancouver, Canada. Classification and survey of refractive keratoplasty; Radial keratotomy in detail; Differential diagnosis in management of the cloudy cornea at birth; Surgical management of pseudophakic corneal edema.
293. **Emory University School of Medicine Pediatric Ophthalmology Update**, December 2, 1988, Atlanta, Georgia. Pediatric Cornea.

## **1989**

294. **Contact Lens Association of Ophthalmologists/International Society of Refractive Keratoplasty**, January 18-21, 1989, New Orleans, Louisiana. Results of the Prospective Evaluation of Radial Keratotomy (PERK) study 4 years after surgery; Effect of moving slit delivery system for excimer laser keratomileusis in monkeys; My best & worst cases in refractive surgery (secretary); Improving on the PERK technique: what have we learned?; What's new in refractive keratoplasty. Problem solving in refractive keratoplasty: panel discussion with the experts (workshop).
295. **\*German Society of Ophthalmology Refractive Surgery Seminar: A Practical Course in Refractive Keratotomy and Epikeratoplasty**, February 10-12, 1989, Bonn, West Germany. (Course director). Overview of Refractive keratotomy: history and development, terminology; Results of radial keratotomy: Refraction, visual acuity, topography, contrast sensitivity; Instruments for radial keratotomy: ultrasonic pachymeters, crystal knives, forceps and fixation rings, centering devices; Surgical techniques: making the incisions, starting the incision, rate of incision, knife angle, completing incision; Surgical workshop radial keratotomy: laboratory experience, case problems; Repeated surgery: when to negotiate, management of undercorrections – recutting vs additional incisions, management of reoperations; Stability of refraction: short-term – regression and fluctuation, intermediate term 6 months to 4 years; Computer simulation of

- refractive surgery; Astigmatism: definition, prevalence, optics, topography; Pre-operative planning: steep meridian, coupling effect, minus cylinder refraction; Surgical workshop – astigmatic keratotomy.
296. **Future Directions for Lasers in Medicine and Surgery**, February 26-March 3, 1989, Palm Coast, Florida. Progress in laser refractive corneal surgery.
297. **Neumann Eye Institute**, March 3, 1989, Deland, Florida. Possible applications of excimer laser corneal surgery.
298. **Wilmer Eye Institute**, Current Concepts in Ophthalmology, March 20-25, 1989, Vail, Colorado. Selective suture removal for the control of postoperative corneal astigmatism; Stability of Refraction after radial keratotomy; Future of refractive corneal surgery – lasers or the knife?; Accuracy and precision of corneal topography measurements with the Corneal Modeling System; Basic techniques of anterior ocular segment reconstruction for pseudophakic corneal edema; Corneal topography after radial keratotomy; Corneal dystrophies: a general overview; Refractive problems after penetrating keratoplasty: monocular ametropia and binocular anisometropia; Differential diagnosis in management of cloudy cornea at birth.
299. **Saudi Ophthalmological Society 3<sup>rd</sup> Annual Scientific Meeting**, Ophthalmology 89, March 26-31, 1989, Jeddah, Saudi Arabia. New concepts in corneal laser surgery: translating slit, ablatable mask, adjustable synthetic epikeratoplasty; Stability of Refraction and status of optical correction four years after surgery in the PERK study.
300. **\*Ain Shams University Eye Bank Planning Group**, April 1, 1989, Cairo, Egypt.
301. **University of Kentucky, College of Medicine**, Current Trends in Ophthalmology, April 21-22, 1989, Lexington, Kentucky. Current status of refractive surgery.
302. **2<sup>nd</sup> American International Congress on Cataract, IOL, and Refractive Surgery**, April 25-27, 1989, Washington D.C. Excimer Laser Symposium: Problems to be solved with the excimer laser.
303. **John-Kenyon Eye Research Foundation, Inc.**, April 29, 1989, Clarksville, Indiana. Stability of Refraction after radial keratotomy.
304. **\*International Corneal Laser Society**, April 30, 1989, Sarasota, Florida. Conventional terminology for laser corneal surgery.
305. **Chicago Ophthalmological Society**, May 25-27, 1989, Chicago, Illinois. Surgical management of pseudophakic corneal edema: how much reconstruction?; Laser surgery of the cornea – boon or bust?; Long term stability of radial keratotomy – how long do progressive effects last?; Corneal topography and selective suture removal in the management of astigmatism after penetrating keratoplasty.
306. **\*European Refractive Surgical Society**, June 1-4, 1989, Antwerp, Belgium. The visual function index – a new concept; Major lessons from the PERK study. Moderator – Inlay Session; Epi Session; and Global panel discussion & conclusion.
307. **\*5<sup>th</sup> International Congress on Cataract and Refractive Surgery**, June 19-21, 1989, Florence, Italy. New horizons in refractive surgery; Synthetic epikeratoplasty; Update in excimer lasers. Member of Advisory Committee.
308. **Massachusetts Institute of Technology, Lasers and Optics for Applications Course**, July 20, 1989, Cambridge, Massachusetts. Lasers in ophthalmology.
309. **National Association of Vision Professionals**, August 4, 1989, Atlanta, Georgia. Surgical correction of refractive errors.

310. **\*European Intraocular Lens Implant Council**, August 29-September 2, 1989, Zurich, Switzerland. Predictability and stability of radial keratotomy; Excimer lasers. Co-moderator of Keratomileusis and Epikeratoplasty Session.
311. **Sixteenth Cornea Research Conference, Eye Research Institute and Massachusetts Eye & Ear Infirmary**, September 21-23, 1989, Boston, Massachusetts. Healing of excimer ablated monkey corneas: an immunohistochemical evaluation.
312. **\*Workshop on Corneal Biophysics I – Corneal Biomechanics and Wound Healing, National Eye Institute**, September 27-29, 1989, Bethesda, Maryland. Chairman and Moderator of Workshop.
313. **University of Iowa, Department of Ophthalmology**, October 4, 1989, Iowa City, Iowa. Wolfe Lecture: Refractive Corneal Surgery.
314. **Manhattan Eye, Ear, and Throat Hospital, Department of Ophthalmology**, October 5-7, 1989, New York, New York. Glover-Lisman Professorship and Lecture: Refractive corneal surgery: basic concepts and current trends; Diagnosis and management of patients with cloudy cornea at birth; Surgical management of pseudophakic corneal edema; Corneal dystrophies – a survey; Patterns of corneal response to insult and injury; Current status of radial keratotomy; Techniques of Refractive corneal surgery.
315. **\*American College of Surgeons**, October 18, 1989, Atlanta, Georgia. Instructor and Moderator of Postgraduate Course – Update on Advances in Ophthalmic Surgery. Radial Keratotomy for Myopia and Transverse Keratotomy for Astigmatism.
316. **Lasers and Electro-Optics Society**, October 20, 1989, Orlando, Florida. Principles of excimer laser corneal surgery.
317. **American Academy of Ophthalmology**, October 27-November 2, 1989, New Orleans, Louisiana. Computer simulation of radial keratotomy for myopia and arcuate keratotomy for astigmatism, presented to the International Society of Refractive Keratoplasty meeting. Chairman, Planning Meeting of Prospective Evaluation of Astigmatic Keratotomy Investigators Group. Comparison of nylon and polyester sutures in penetrating keratoplasty, presented to the Castroviejo Society meeting. Corneal wound healing after excimer keratomileusis, presented at Medical Laser Industry Report meeting. Refractive surgery, presented to Ophthalmic Photographer's Society. Cornea, presented at Eye Current Status of Refractive Surgery (instruction course). Excimer laser photorefractive keratectomy (PRK) for myopia: the blind eye study (discussant). Prospective randomized comparison of nylon and dacron suture in penetrating keratoplasty, presented to the Ethicon Ophthalmic Advisory Panel. Results of Radial Keratotomy (instruction course). Refractive surgery for spherical Refractive errors: a practical course (instruction course).
318. **Georgia Society of Ophthalmology**, November 18, 1989, Atlanta, Georgia. Refractive Corneal Surgery: Advances and Retreats 1979-1989.
319. **University of Toronto, Department of Ophthalmology and The Royal College of Physicians and Surgeons of Canada, International Update on Corneal & External Diseases**, December 1-2, 1989, Toronto, Ontario. Walter Wright Lecturer: Refractive Surgery: current status and future horizons. Anterior segment reconstruction. PERK study update. Excimer laser Refractive surgery.

## **1990**

320. **Freie Universitat of Berlin, Summit Technology Excimer Investigators Meeting**, January 5-6, 1990, Berlin, West Germany. Assessment of clinical trials for excimer laser keratomileusis.
321. **Federal Food and Drug Administration**, January 25, 1990, Washington, D.C. Laser myopic keratomileusis using the Summit Excimer System

322. **Emory University, 27<sup>th</sup> Annual Emory-Grady Alumni-Postgraduate Conference**, February 2-3 1990, Atlanta, Georgia. Newer techniques of Refractive keratoplasty: excimer laser, radial thermokeratoplasty, and intracorneal lenses.
323. **\*Pan Arab Council of Ophthalmology**, February 14-17, 1990, Cairo, Egypt. Solving anterior segment problems; PK & IOL insertion; Understanding Refractive changes after excimer laser; The surgical cornea – prevention of blindness; Moderator – Panel discussion on Excimer Lasers; Panelist – Panel discussion on Keratoplasty problems.
324. **\*Workshop on Corneal Biophysics II – Corneal Biomechanics and Wound Healing, National Eye Institute**, February 21-24, 1990, Bethesda, Maryland. Chairman and Moderator of Workshop.
325. **\*International Society of Refractive Keratoplasty**, March 16-17, 1990, Singapore. Computer-assisted Videokeratography – normal eyes and eyes after penetrating keratoplasty and radial keratotomy; Moderator – Panel discussion on Lasers in Refractive surgery; Panelist – Panel discussion on Radial keratotomy.
326. **\*XXVI International Congress of Ophthalmology**, March 18-23, 1990, Singapore. Surgical technique and study design of PERK; Stability of Refraction and visual acuity after radial keratotomy; Problems and progress in the management of astigmatism after penetrating keratoplasty; Prospective evaluation of astigmatic keratotomy (PEAK) study; Instructor – Live radial keratotomy surgery; Instructor – workshop on Epikeratophakia; Chairperson – Update on radial keratotomy for myopia symposium; Chairperson – Results of the PERK (Prospective Evaluation of Radial Keratotomy) study; Representative for North America at Closing Ceremony.
327. **Beijing Tong Ren Hospital**, March 26-28, 1990, Beijing, China. Radial keratotomy. Surgical demonstrations: phacoemulsification, penetrating keratoplasty, extracapsular cataract extraction, radial keratotomy.
328. **Xian Medical University**, March 29-30, 1990, Xian, China. Current status of radial keratotomy. Surgical demonstrations: extracapsular cataract extraction, anterior ocular segment reconstruction, radial keratotomy.
329. **\*Association for Research in Vision and Ophthalmology**, April 28-May 5, 1990, Sarasota, Florida. Moderator for Laser Surgery/Topography session.
330. **American Ophthalmological Society**, May 20-23, 1990, Hot Springs, Virginia. Inadequacy of a polyester (Mersilene) suture for the reduction of astigmatism after penetrating keratoplasty.
331. **Massachusetts Eye & Ear Infirmary**, June 8-9, 1990, Boston, Massachusetts. Paul Chandler Visiting Professor Lecture: Corneal responses to insult and injury; Survey of Refractive corneal surgery in 1990; Radial keratotomy: techniques, efficacy, safety, predictability, and stability.
332. **XIX Mexican Congress of Ophthalmology**, July 6-9, 1990, Acapulco, Mexico. Skin and the eye; Corneal responses to disease and insult; Anterior chamber cleavage syndrome; Use of cyclosporine in corneal graft rejection; New frontiers in Refractive surgery.
333. **Alabama/Mississippi Academy of Ophthalmology**, August 2-3, 1990, Panama City, Florida. A survey of Refractive surgery – present status; A detailed analysis of radial and astigmatic keratotomy; Laser corneal Refractive surgery; Current techniques in penetrating keratoplasty.
334. **International Ocular Microsurgery Group**, September 2-8, 1990, La Baule, France. Laboratory and clinical experience with excimer laser corneal surgery.

335. **Corneal Refractive Laser Surgery: A Critical Appraisal of Current Lasers and Methods, College of Physicians & Surgeons of Columbia University**, September 15, 1990, New York, New York. Corneal wound healing after excimer laser photoRefractive keratotomy.
336. **\*Alta Society of Ophthalmology**, September 20, 1990, Sacramento, California. Present status of Refractive corneal surgery.
337. **Corneal & Refractive Surgery for the Anterior Segment Surgeon: A symposium commemorating Max Fine, M.D.**, September 21-22, 1990, San Francisco, California. Excimer laser, thermokeratoplasty, and intracorneal lenses. Panel discussion – Refractive surgery for the practicing ophthalmologist in the 90's: observer or participant?
338. **1990 Annual Meeting of North Carolina and South Carolina Society of Ophthalmology**, October 4-6, 1990, Asheville, North Carolina. The present status of Refractive surgery; Anterior segment reconstruction for pseudophakic corneal edema.
339. **\*American Academy of Ophthalmology**, October 26-31, 1990, Atlanta, Georgia. Changes in keratometric astigmatism over 1 year after penetrating keratoplasty; panel discussion – Keratotomy procedures – International Society of Refractive Keratoplasty. Visual function index presented to International Society of Refractive Keratoplasty Study Group Cornea, presented at Eye Sight on Eye Specialties Symposium: A Layperson's View. Cataract and Refractive surgery update – Will photoRefractive keratectomy replace radial keratotomy for myopia? (instruction course). Spherical correction of Refractive errors (instruction course). Laser Refractive surgery, presented to Summit Technology, Inc. Chairperson, American Academy of Ophthalmology Special Interest Group on PhotoRefractive Keratectomy. Five year results of the Prospective Evaluation of Radial Keratotomy (PERK) Study. Corneal wound healing after excimer photoRefractive keratectomy – clinical and laboratory studies.
340. **\*Third International Congress on Laser Surgery of the Cornea**, November 2-3, 1990, Atlanta, Georgia. Organizer. Finite element computational models of corneal surgery.
341. **Wills Eye Hospital, 8<sup>th</sup> Biennial Cornea Conference – Management of Corneal and External Diseases: New Approaches to Old Problems**, November 30-December 1, 1990, Philadelphia, PA. Wilfred E. Fry, M.D. Memorial Corneal Lecture – Laser corneal surgery (comparison of radial keratotomy and photoRefractive keratectomy); Penetrating keratoplasty and anterior segment reconstruction; Practical applications of corneal topography; Radial keratotomy.
342. **V Pan African Council of Ophthalmology**, December 19-22, 1990, Casablanca, Morocco. Refractive surgery update; Surgical cornea – anything short of keratoplasty; Radial keratotomy (instruction course); Panel discussion – Refractive surgery controversies.

## **1991**

343. **Innovations in Clinical Ophthalmology: 1991, Massachusetts Eye & Ear Infirmary and Harvard Medical School**, January 16-19, 1991, Maui, Hawaii. Clinical pathologic response of the cornea; Refractive surgery: current options; Radial keratotomy update; Panel discussion – PhotoRefractive keratectomy: treatment of myopia. Nurse's Program – Refractive surgery: options; Radial keratotomy.
344. **Vermont Ophthalmological Society**, February 2-3, 1991, Burlington, Vermont. Where keratorefractive surgery fits in with general ophthalmologists and where it will go over the next five years; Types of keratorefractive surgery.
345. **Utah Ophthalmological Society**, February 16-21, 1991, Salt Lake City, Utah. Anterior ocular segment reconstruction for pseudophakic corneal edema; Current status of radial keratotomy; Laser corneal surgery.

346. **Emory University Annual Postgraduate Course**, February 23, 1991, Atlanta, Georgia. Surgical correction of corneal astigmatism.
347. **Engineering Foundation Conference – Future Directions for Lasers in Medicine & Surgery II**, February 27, 1991, Palm Coast, Florida. Laser adjustable synthetic epikeratoplasty.
348. **Jules Stein Eye Institute, 22<sup>nd</sup> Annual Postgraduate Seminar, Current Concepts in Clinical Ophthalmology and Vision Science**, March 8-10, 1991, Los Angeles, California. Laser surgery of the cornea: excimer and other applications to Refractive surgery.
349. **The Wilmer Eye Institute, Current Concepts in Ophthalmology**, March 12-16, 1991, Vail, Colorado. Topography of radial keratotomy; Patient selection for penetrating keratoplasty: factors that affect outcome; Excimer laser photoRefractive keratectomy for myopia; Review of Refractive surgical procedures; The future of Refractive surgery; Radial keratotomy: the PERK 5-year considerations for the future.
350. **Columbus, GA, Medical Society**, March 26, 1991, Columbus, Georgia. Will glasses become antiques in the 21<sup>st</sup> century?
351. **International Society of Refractive Keratoplasty Spring Meeting**, April 7, 1991, Boston, Massachusetts. Radial keratotomy – historical perspective; Radial keratotomy – results to date.
352. **Policy Evolution in Ophthalmology**, April 9, 1991, Washington, D.C. Participant in panel discussion: Excimer laser technology – a case study.
353. **\*RK in the 90's: How to do radial keratotomy in the laser era**, April 13 and May 20, 1991, Kansas City, Missouri and Atlanta, Georgia. Course organizer and instructor.
354. **Association for Research in Vision and Ophthalmology**, April 27-May 2, 1991, Sarasota, Florida. International Advisory Committee of International Federation of Eye Banks Meeting.
355. **\*The 4<sup>th</sup> International Cataract, Implant, Microsurgical and Refractive Keratoplasty Meeting**, May 8-13, 1991, Seoul, Korea. Current status of radial keratotomy, Instructor; Session on PhotoRefractive keratectomy, radial keratotomy, and Refractive surgery, Chairman; Management of astigmatism after penetrating keratoplasty with suture adjustment; Anterior ocular segment reconstruction for pseudophakic corneal edema.
356. **\*XIII Congress of Asia-Pacific Academy of Ophthalmology**, May 14-17, 1991, Kyoto, Japan. Moderator.
357. **American Ophthalmological Society**, May 19-22, 1991, Pebble Beach, California. Discussant of paper – Results of myopic photoRefractive keratectomy with the 193 nm excimer laser.
358. **Third International Congress on Laser Technology in Ophthalmology**, May 23-24, 1991, San Francisco, California. Laboratory and clinical studies of excimer laser corneal surgery.
359. **Excimer Laser Course, Eye Foundation of Kansas City**, June 7, 1991, Kansas City, Missouri. PhotoRefractive and phototherapeutic keratectomy – Emory University experience.
360. **Sixth Biennial Contact Lens Seminar, Emory University School of Medicine**, June 15, 1991, Atlanta, Georgia. Will Refractive surgery replace contact lenses?
361. **Chirurgia del Segmento Anteriore Trattamento Delle Complicanze**, July 18-20, 1991, Venice, Italy. Magistral Lecture – Surgical repair of anterior segment complications. Instructor, live surgery.

362. **18<sup>th</sup> National Research Symposium on Contact Lenses, Bausch & Lomb**, August 8-11, 1991, Toronto, Ontario. Status of excimer laser surgery. Participant in debate, "That Refractive surgery will be the Procedure of Choice for Vision Correction by the Year 2000" – Speaker in opposition to the proposition.
363. **1<sup>st</sup> Annual Congress Summit International Laser User Group**, August 30-September 1, 1991, Geneva, Switzerland. Excimer laser photoRefractive keratectomy for myopia: a multicenter study. Moderator, Session on Worldwide Experience – PRK. Instructor, ablatable mask wet lab.
364. **Hennawi Eye Hospital**, September 3-4, 1991, Alexandria, Egypt. Instructor, live surgery.
365. **Egyptian Society of Intraocular Lens and Refractive Surgery**, September 5, 1991, Alexandria, Egypt. Recent advances in radial keratotomy.
366. **Symposium on Novel Advances in Cataract and Corneal Refractive Surgery, 50<sup>th</sup> Anniversary of the Centro de Oftalmological Barraquer**, September 8-9, 1991, Barcelona, Spain. Computer simulation of arcuate keratotomy.
367. **\*IX European Intraocular Implant Lens Congress and V European Refractive Surgery Symposium**, September 10-14, 1991, Valencia, Spain. Sequence of steps in transverse keratotomy; Results of myopic photoRefractive keratectomy with the Summit excimer laser; Organizer and chairperson, the Present State of Refractive Surgery Symposium; Excimer laser photoRefractive keratectomy for myopia.
368. **La Fonction Visuelle, 3eme Cours Al Bassar de Specialisation, North African Center for Sight, Faculty of Medicine, University of Tunis**, September 23-26, 1991, Tunis, North Africa. Corneal topography and astigmatism, Corneal physiology, Review of Refractive surgery, Excimer laser.
369. **Saudi Eye Foundation**, September 29, 1991, Jeddah, Saudi Arabia. Excimer laser in corneal surgery.
370. **Ain Shams University**, October 2-3, 1991, Cairo, Egypt. Corneal Refractive surgery, IOL and keratoplasty, Reconstruction of the anterior segment.
371. **\*American Academy of Ophthalmology**, October 13-17, 1991, Anaheim, California. Chairperson, American Academy of Ophthalmology Special Interest Group on Laser Corneal Surgery Symposium, Excimer laser corneal surgery for the comprehensive ophthalmologist – Where can laser corneal surgery fit into the practice of the comprehensive ophthalmologist? Should I be saving for an excimer of my very own, presented at Primary Eye Care Management Problems symposium. Excimer laser (193 nm) photoRefractive keratectomy (PRK) – Human sighted eyes, 18-month follow up (discussant). Cataract and Refractive surgery update (instruction course).
372. **Southern Medical Association, 85<sup>th</sup> Annual Scientific Assembly**, November 16, 1991, Atlanta, Georgia. Surgical and laser techniques of Refractive surgery.
373. **Menicon 40<sup>th</sup> Anniversary International Symposium**, November 23-24, 1991, Nagoya, Japan. Laser corneal surgery.
374. **\*Annual Scientific Meeting of Saudi Ophthalmological Society**, December 11-13, 1991, Riyadh, Saudi Arabia. Course Director – Radial keratotomy; Session Moderator – Refractive surgery; Excimer laser photoRefractive keratectomy for myopia in a multicenter study; Computer assisted videokeratography of corneal topography after assisted videokeratography of corneal topography after radial keratotomy; Management of pseudophakic corneal edema with reconstruction of the anterior ocular segment.
375. **Ain Shams University**, December 21, 1991, Cairo Egypt. Instructor, live surgery.

**1992**

376. **L.V. Prasad Eye Institute**, January 27-28, 1992, Hyderabad, India. Case selection for penetrating keratoplasty; Postoperative management of grafts; Demonstration of Hanna suction trephine.
377. **\*Second International Congress of the Indian Intraocular Implant Society**, January 31-February 1, 1992, New Delhi, India. Keynote lecture – The epidemic of pseudophakic corneal edema – cause and surgical management; Management of pseudophakic corneal edema; Keynote lecture – Options and techniques for secondary intraocular lens implantation during penetrating keratoplasty; Co-chairman of Symposium entitled Small Incision IOL Surgery: Phaco and Non-Phaco Advances in Narrow IOL; Instructor – Radial keratotomy course.
378. **Quality Eye Banking and Corneal Surgery International Meeting, Eye Bank Association of India**, January 31-February 1, 1992, New Delhi, India. Keratoplasty in pseudophakic and aphakic bullous keratopathy; Videotape – Survey of techniques of penetrating keratoplasty.
379. **Golden Jubilee Conference of All India Ophthalmological Society**, February 2-3, 1992, New Delhi, India. Indications and procedures for keratoplasty; Post-keratoplasty astigmatism; Technique of anterior capsulotomy; Astigmatic keratotomy; Guest Lecture – Radial Keratotomy.
380. **The Ophthalmological Society of Egypt**, February 26, 1992, Cairo, Egypt. Excimer laser corneal surgery – results of the Summit FDA trial.
381. **Deutschsprachige Gesellschaft für Intraokularlinsen Implantation (German Intraocular Implant Society)**, March 6-7, 1992, Munich, Germany. Referat Lecture – Radial Keratotomy vs Excimer Laser Keratectomy for the Correction of Myopia.
382. **Visions '92, Summit Technology**, March 8, 1992, Frankfurt, Germany. Results of photoRefractive keratectomy using the Summit laser in the United States.
383. **Hospital Laennec Clinical Institution Course on Excimer Laser PhotoRefractive Keratectomy**, March 14, 1992, Paris, France. Instructor.
384. **University of Texas Medical Branch, 25<sup>th</sup> Annual Ophthalmology Update and Alumni Meeting**, March 28, 1992, Galveston, Texas. Refractive surgery and corneal topography; Experience with the Summit laser.
385. **2<sup>nd</sup> Congres de la Societe Mediterranee Internationale**, April 7-11, 1992, Marrakesh, Morocco. Instructor, Radial keratotomy and surgery for astigmatism course; Classification of Refractive surgery; Laser corneal surgery.
386. **Georgia Society of Ophthalmology**, May 1, 1992, Sea Island, Georgia. Corneal excimer laser surgery.
387. **Current Concepts in Corneal and External Diseases and Refractive Surgery, Lenox Hill Hospital**, May 14-16, 1992, New York, New York. Radial and astigmatic keratotomy; Anterior ocular segment reconstruction for pseudophakic corneal edema.
388. **\*IX Congress of the European Society of Ophthalmology**, May 24-26, 1992, Brussels, Belgium. Astigmatism after cataract surgery. Moderator, Round-Table Discussion, International Symposium on Refractive Errors and Their Correction.
389. **Hospital Ophthalmique Universitaire**, June 1, 1992, Lausanne, Switzerland. Excimer laser corneal surgery: theory and practice.

390. **\*1992 Berzelius Symposium**, June 14-16, 1992, Lund Sweden. Member, Organizing Committee. Principles of astigmatism surgery: corneal topography, selective suture adjustment, coupling in transverse keratotomy; Principles of excimer laser corneal surgery; is RK still a good idea? Moderator, Panel Discussion, Refractive Surgery – Past, Present, and Future.
391. **1992 Canadian Ophthalmological Society Meeting**, June 27-July 2, 1992, Vancouver, British Columbia. Current concepts in Refractive surgery; Patterns of pathological response of the cornea; Advanced concepts in radial and astigmatic keratotomy; Differential diagnosis of the cloudy cornea at birth; Complications of Refractive surgery; Anterior segment reconstruction for pseudophakic corneal edema; Controversies in Refractive surgery – for subspecialists.
392. **\*Aegean Cornea '92**, August 13-21, 1992, Heraklion, Crete. Corneal surgery update. Participant, Panel Discussions, Laser and Refractive surgery, Radial Keratotomy, Current problems of Refractive surgery. Moderator, Panel Discussion, Corneal surgery – other techniques.
393. **\*Second Annual Congress Summit International Laser User Group**, September 3-5, 1992, Montreux, Switzerland. Refractive and visual results of a multicenter trial of excimer laser photoRefractive keratectomy (lib results). Moderator, Poster Session, Worldwide experience.
394. **\*Xth Congress of the European Society of Cataract and Refractive Surgery**, September 6-11, 1992, Paris, France. Results of Summit laser photoRefractive keratectomy for myopia; Corneal trephination – a new approach; Results of astigmatism surgery after penetrating keratoplasty. Participant, Panel Discussions, Radial keratotomy, Corneal graft, Excimer laser. Moderator, High Myopia Symposium – what is the best surgical technique for the correction of high myopia.
395. **United Kingdom Intraocular Implant Society Meeting**, October 1-2, 1992, Manchester, England. Rayner Medal Lecture – Present status of excimer laser corneal surgery.
396. **\*La Cornee: Problems Actuels, Hotel-Dieu Hospital**, October 17, 1992, Paris, France. Le point sur la keratotomie radiare. Moderator, Pathology of the stroma session.
397. **Royal Commission for Jubail and Yanbu Health Services Department**, October 26, 1992, Yanbu, Saudi Arabia. Eye Injuries and the Red Eye.
398. **\*American Academy of Ophthalmology**, November 6-12, 1992, Dallas, Texas. Chairperson, American Academy of Ophthalmology Special Interest Group on Laser Corneal Surgery Symposium, Survey of Laser Corneal Surgery – Socioeconomics of laser corneal surgery. Results of radial keratotomy, presented to International Society of Refractive Keratoplasty. Prospective Evaluation of Radial Keratotomy (PERK), presented at The Impact of Clinical Trials on Ophthalmology Practice symposium. Refractive and visual results of a multicenter trial of excimer laser photoRefractive keratectomy. Excimer laser corneal surgery, Barraquer Lecture, presented at the Refractive Surgery: Present Controversies and Future Trends Symposium. Radial and astigmatic keratotomy (instruction course). Cataract and Refractive surgery update (instruction course).
399. **New Jersey Academy of Ophthalmology & Otolaryngology, New Jersey Medical School**, December 2, 1992, Long Branch, New Jersey. Corneal laser surgery: past, present, and future; Radial keratotomy update: precise, predictable, (becoming) very popular: why now?
400. **San Diego County Ophthalmological Society, Guest Lecturer**, December 7, 1992, San Diego, California. Excimer laser corneal surgery.
401. **University of California/San Diego, Visiting Professor**, December 7, 1992, San Diego, California. Current status of radial keratotomy; Pathologic responses of the cornea.

**1993**

402. **Ain Shams University, Visiting Professor**, February 8-9, 1993, Cairo, Egypt. Radial Keratotomy: current status; Excimer laser corneal surgery: future developments. Radial keratotomy (laboratory course).
403. **Hawaii Ophthalmological Society**, February 15-16, 1993, Honolulu, Hawaii. PhotoRefractive keratectomy; Radial keratotomy; Anterior ocular segment reconstruction; Diagnosis and management of congenital corneal opacities; Pathologic responses of the cornea; Current concepts in penetrating keratoplasty; Treatment of bacterial keratitis; Treatment of endophthalmitis.
404. **\*El-Maghraby Eye Hospital Cornea Symposium – Review of Contemporary Cornea and Refractive Surgery**, February 25-26, 1993, Jeddah, Saudi Arabia. Anterior segment reconstruction; Current status of excimer laser.
405. **\*Visions '93, Summit Technology**, March 30, 1993, Cairo, Egypt. Course Director, PhotoRefractive and phototherapeutic keratectomy with the Summit excimer laser (laboratory instruction course).
406. **The Ophthalmological Society of Egypt**, March 31-April 2, 1993, Sharm El Sheikh, Egypt. Practical considerations for the clinician; Clinical approaches to excimer laser ablation; PhotoRefractive keratectomy (PRK) – US experience; PRK clinical overview; US FDA Phase III clinical results; Astigmatic correction with the erodible mask; Myopic keratomileusis; Holmium laser for hyperopic correction; Excimer laser photoRefractive keratectomy: results in 400 eyes; Management of ruptured posterior chamber. Intraocular lenses, present status (panel discussion).
407. **Association for Research in Vision and Ophthalmology**, May 2-7, 1993, Sarasota, Florida. Standardization issues in topography: terminology and scales, presented to Corneal Topography Special Interest Group.
408. **\*Second International Congress of the Pan Arab Council of Ophthalmology and the Silver Jubilee of the Syrian Ophthalmological Society**, May 11-14, 1993, Damascus, Syria. Special lecture on corneal surgery; Surgical techniques for routine keratoplasty and the training of corneal surgeons; Corneal tunnel self-sealed small incision cataract surgery; Radial keratotomy; Presentation of difficult corneal problems. Course Director – Refractive surgery: radial and astigmatic keratotomy; Refractive surgery: excimer laser and Refractive surgery (instruction courses). Co-Course Director – Combined keratoplasty, cataract and IOL surgery (instruction course).
409. **King Khaled Eye Specialist Hospital**, June 14, 1993, Riyadh, Saudi Arabia. Corneal topography; Refractive keratotomy for astigmatism (including surgical demonstration).
410. **\*Corneal Topography for the Practicing Ophthalmologist**, July 2, 1993, Cairo, Egypt. Normal corneal topography; Topography after radial keratotomy and penetrating keratoplasty; Accuracy and precision of corneal topography.
411. **XI Congress of the European Society of Cataract and Refractive Surgeons**, August 29-September 2, 1993, Innsbruck, Austria. Chairman: Session on Radial Keratotomy and Other Techniques – Myopia. KeratoRefractive surgery (instruction course); Managing astigmatism – corneal topographical applications (instruction course). Keynote address: PhotoRefractive keratectomy.
412. **ISRK Satellite Symposium**, August 30, 1993, Innsbruck, Austria. Recent developments in radial keratotomy: mini RK, RK vs PRK, and excimer laser for undercorrected RK.
413. **Summit International Laser User Group, Third Annual Congress**, September 16-18, 1993, Montreux, Switzerland. Myopic Keratomileusis. Session Moderator: Pharmaceuticals for PhotoRefractive Keratectomy. Erodeable Mask Lab (Instructor).

414. **Phillips Eye Institute, Refractive Surgery Update**, October 8, 1993, Minneapolis, MN. Refractive surgery experience in Saudi Arabia – Part I: Incisional; Refractive surgery experience in Saudi Arabia – Part II: Laser, Myopic IOL, and others.
415. **Summit Visions Course**, October 15-16, 1993, Dubai, United Arab Emirates. Myopic keratomileusis; US FDA Phase III Clinical Results; Astigmatic correction with the erodible mask.
416. **Visiting Surgeon, Al Jazeera Hospital, Ministry of Health**, October 17-20, 1993, Abu Dhabi, United Arab Emirates. Clinical consultations; Surgical demonstrations – Refractive keratotomy, extracapsular cataract extraction, anterior ocular segment reconstruction.
417. **Visiting Professor, Wills Eye Hospital**, November 10, 1993, Philadelphia, Pennsylvania. Laser corneal surgery: fact and fiction.
418. **56<sup>th</sup> George de Schweinitz Lecture, College of Physicians**, November 11, 1993, Philadelphia, Pennsylvania. Refractive surgery: present realities and future prospects.
419. **American Academy of Ophthalmology**, November 12-18, 1993, Chicago, Illinois. International Society of Refractive Keratoplasty – Overview of incisional Refractive surgical techniques; A prospective multicenter clinical trial of the Casebeer systematic approach to incisional Refractive surgery for the correction of myopia and astigmatism; Controversies in Refractive surgery (panel member). Cataract and Refractive surgery update – Current technique of Refractive corneal surgery (instruction course). Controversies in international ophthalmology: Refractive surgery in the developing country (instruction course). Cornea Free Papers – Co-Chairperson. Survey of Laser Corneal Surgery Symposium – Co-Chairperson.
420. **7<sup>th</sup> Annual Scientific Meeting of the Saudi Ophthalmological Society**, November 30-December 2, 1993, Jeddah, Saudi Arabia. Results of anterior segment reconstruction for aphakic and pseudophakic corneal edema. Refractive Surgery update course – Chairman. Refractive surgery symposium – Chairman; Current status of photoRefractive keratectomy with the excimer laser.

## **1994**

421. **7<sup>th</sup> UAE Ophthalmic Conference**, January 15-16, 1994, Dubai, United Arab Emirates. Cataract session – Chairman. Excimer laser corneal surgery for myopia and astigmatism; Internal corneal valve incision for the removal of cataract with phacoemulsification.
422. **Second International Congress of Cataract, Intraocular Implants and Refractive Surgery**, April 26-30, 1994, Sao Paulo, Brazil. RK PERK Study up-date.
423. **Association for Research in Vision and Ophthalmology**, May 1-6, 1994, Sarasota, Florida. A comparison of DuoTrak Blade Technique and the Russian Technique in Prospective Multicenter Clinical Studies of Refractive Keratotomy for Myopia and Astigmatism.
424. **Tom Casey Memorial Lecture**, May 31, 1994, London, England.
425. **American Academy of Ophthalmology Shared Interest Group Meeting**, June 12, 1994, Chicago, Illinois. Discussion of the nature of Shared Interest Groups, Proposed Statement of Purpose and Objectives, Proposed Amendment to Academy Bylaws and Proposed Organizational Procedures.
426. **XXVII International Congress of Ophthalmology and ISRK Combined Anterior Segment Satellite Meeting**, June 21-30, 1994, Toronto, Canada. Prospective comparison between Keratomileusis-in-situ with a Corneal Shaper and the Worst Minus Power Phakic Claw Lens. Astigmatism and Topography. Wound Healing after Excimer Laser PhotoRefractive Keratectomy. Radial Keratotomy, Past, Present, and Future.

427. **El-Maghraby Eye Center at Al-Mouwasat Hospital**, Eastern Province, Dammam, Saudi Arabia, July 4, 1994. Excimer Laser Theory and PhotoRefractive Keratectomy (PRK). Phakic Intraocular Lens for High Myopia.
428. **15<sup>th</sup> Meeting of the International Ophthalmic Microsurgery Study Group**, September 11-15, 1994, Killarney, Ireland. Excimer Laser Keratomileusis-in-situ compared to PhotoRefractive Keratectomy: A Prospective Randomized Trial.
429. **XIIth Congress of the European Society of Cataract and Refractive Surgeons**, September 18-22, 1994, Lisbon, Portugal. Flap & Zap – The Ideal Refractive Procedure. Excimer Laser Keratomileusis-in-situ Under a Corneal Flap.
430. **European Lamellar Keratoplasty Users Group Meeting**, September 20, 1994, Lisbon, Portugal. Critical Evaluation of ALK in comparison to other techniques of correction for high myopia.
431. **American Academy of Ophthalmology**, October 28-November 4, 1994, San Francisco, California. Phakic Intraocular Lenses. Chairman of Symposium – Current Techniques and Results, Advantages and Disadvantages. Excimer Laser In-situ Keratomileusis for Myopia. Moderator of Refractive Surgery around the World – Near East/Far East. Presentation of the Troutman Medal to Dr. Neal Sher.

## **1995**

432. **Excimer Laser Association of Damascus**, February 2-5, 1995, Damascus, Syria. PhotoRefractive Keratectomy: Basics and Clinical Techniques.
433. **American College of Eye Surgeons Meeting**, February 16-18, 1995, Fort Lauderdale, Florida. Current state of Refractive surgery. Excimer PRK technique and discussion. Phakic intraocular lenses in the correction of myopia. ALK and Excimer ALK.
434. **Adolf O. and Harry A. Pfingst Lecturer**, March 17-18, 1995, 23<sup>rd</sup> Annual C. Dwight Townes Memorial Lecture, University of Louisville, Louisville, Kentucky. Patterns of Pathological Response of the Cornea. Refractive Surgery: Present Reality and Future Prospects.
435. **3<sup>rd</sup> Annual Harold Gifford, Jr. Lecturer**, March 30-31, 1995, University of Nebraska, Omaha, Nebraska. Refractive Surgery, Present Realities and Future Prospects. Corneal Responses to Injury and Disease. The Constructive Role of Chance and Error in Professional Life.
436. **American Society of Cataract & Refractive Surgery**, April 1-3, 1995, San Diego, California. Special two hour course on Lamellar Refractive Surgery: LASIK.
437. **Emory Vision Correction Center**, May 7, 1995, Emory University School of Medicine, Atlanta, Georgia. Phototherapeutic Keratectomy Course.
438. **Emory University School of Medicine – Course Director**, May 13, 1995, Atlanta, Georgia. Practical Techniques and Results of PTK. Total Therapeutic Keratotomy Course.
439. **Association for Research in Vision and Ophthalmology**, May 14-19, 1995, Fort Lauderdale, Florida. Corneal Endothelium and Storage, Corneal Topography, Keratoprosthesis.
440. **DuPont Guerry III Lecture**, May 19-20, 1995, Medical College of Virginia, Richmond, Virginia. Evolution of Refractive Surgery into the 21<sup>st</sup> Century. Refractive Intraocular Lenses.

441. **The American Ophthalmological Society**, May 21 – 24, 1995, Hot Springs, Virginia. Excimer laser In-Situ Keratomileusis for myopia, (LASIK).
442. **Xth European Congress Society of Ophthalmology**, June 25-29, 1995, Milano, Italy. Contemporary Issues in Laser Corneal Surgery. Recent Progress in Refractive Surgery. Corneal Topographic Patterns After Incisional Refractive Surgery.
443. **Instituto de Microcirugia Ocular de Barcelona**, June 30, 1995, Barcelona, Spain. Excimer Laser In-Situ Keratomileusis (LASIK) for Myopia Course.
444. **Summer Symposium on Refractive Surgery and Corneal Topography**, July 8-9, 1995, Emory University School of Medicine, Department of Ophthalmology, Chateau Elan, Braselton, Georgia. LASIK and PRK Update.
445. **EI-Maghraby Eye Hospital Visiting Professor**, August 3-11, 1995, Jeddah, Saudi Arabia. Which Refractive Surgery Procedure is Best: Criteria for Assessing Refractive Surgical Procedures.
446. **Tilganga Eye Centre & Nepal Eye Program**, October 13, 1995, Kathmandu, Nepal. Refractive surgery and the management of astigmatism. Keratoplasty – Indication, techniques and post operative care.
447. **American Academy of Ophthalmology**, October 29, 1995-November 2, 1995, Atlanta, Georgia. Cataract and Refractive Surgery Update. Current Techniques of Refractive Surgery. Lamellar Refractive Surgery. Patient Selection for PTK. ATPO Keynote Lecture; Refractive Surgery in Office Practice. LTK Clinical Results. Sjogrens Syndrome Foundation Breakfast Meeting; Refractive Surgery in patients with Dry Eyes.
448. **Georgia Society of Ophthalmology**, November 18, 1995, Atlanta, Georgia. LASIK: The Emory Experience.
449. **The New York Eye & Ear Infirmary – 175<sup>th</sup> Conference**, December 1-2, 1995, New York, New York. Current Concepts In Refractive Surgery. Wound healing after Refractive surgery. LASIK for Myopia and Hyperopia. Complications of PRK and LASIK: Prevention and Management.
450. **The Summit International Laser User Congress**, December 8-10, 1995, Palm Beach, Florida. Current Concepts in Ophthalmology – Refractive Surgery.

## **1996**

451. **Pharmacia Workshop**, January 12, 1996, Irvine, California. Workshop on Refractive Surgery. Phakic IOL Lenses for Myopia.
452. **Alcon Leading Edge Meeting**, January 13-14, 1996, Ft. Worth, Texas. Excimer Laser Quality Control. LASIK. Phakic IOLs.
453. **1996 Schlossman Lecture**, Manhattan Eye, Ear and Throat Hospital, January 20, 1996, New York, New York. The Future of Ophthalmology: Major Advances in Refractive Surgery.
454. **Emory University School of Medicine, Post Graduate Course Ophthalmology 1996**, February 3, 1996, Atlanta, Georgia. What's Here Now in Refractive Surgery: Corneal Surgery. What's in the Future in Refractive Surgery.
455. **XIX International Symposium Moacyr Alvaro**, February 9-11, 1996, Sao Paulo, Brazil. Advances in Refractive Surgery. Radial Keratotomy Perspectives. Complications at PERK Study. Update in Refractive Surgery. LASIK.

456. **Fourth World Congress on Cornea**, April 17-19, 1996, Orlando, Florida. Laser In-situ Keratomileusis (LASIK for myopia).
457. **Broward and Palm Beach Ophthalmology Societies**, April 22, 1996, Ft. Lauderdale, Florida. LASIK experience in Saudi Arabia.
458. **24<sup>th</sup> Annual Fralick Lecture**, University of Michigan, W.K. Kellogg Eye Center, May 3, 1996, Ann Arbor, Michigan. Criteria for Assessing Various Refractive Surgical Procedures.
459. **Georgia Society of Ophthalmology Annual Meeting**, May 5, 1996, Sea Island, Georgia.
460. **Tullos O. Coston Lecturer**, University of Oklahoma, Dean A. McGee Eye Institute, May 11, 1996, Oklahoma City, Oklahoma. Refractive Surgery: Present Realities and Future Promises.
461. **American Society of Cataract & Refractive Surgery**, June 3, 1996, Seattle, Washington. Personal Experience with Three Phakic IOLs.
462. **Van Dyk Memorial Lecturer**, LSU Eye Center, June 15, 1996, New Orleans, Louisiana. Refractive Surgery: Present Realities and Future Promises. LASIK.
463. **Medical College of Wisconsin Alumni Meeting**, June 21-22, 1996, Milwaukee, Wisconsin. Refractive Surgery: Present Realities and Future Prospects. Correction of Myopia with Excimer Laser In-Situ Keratomileusis (LASIK). Networks, Alliances, Eye Care Carve-outs and the Effects of Capitation: Geographic Differences.
464. **Greene Vision Correction Group**, June 29, 1996, Wichita, Kansas. Refractive Surgery: Worldwide Technology & Techniques.
465. **Emory University School of Medicine, Department of Ophthalmology, Emory Vision Correction Center, Summer MD/OD Symposium**, July 13, 1996, Chateau Elan, Braselton, Georgia. LASIK vs PRK and the Future.
466. **International Society of Refractive Surgery Mid-Summer Symposium**, July 20-21, 1996, Minneapolis, Minnesota. Worst Iris Claw Lens in Phakic Eye to Correct High Myopia. Prospective Trial of LASIK for Myopia. Prospective Trial for Myopia.
467. **EI-Maghraby Eye Hospital**, August 10, 1996, Jeddah, Saudi Arabia. LASIK Trial at Emory and Phakic Intraocular Lenses.
468. **Hospital Tby Grhelgy**, August 9-24, 1996, Damascus, Syria. Laser Surgery Skills Transfer Course.
469. **Excelsior Group**, September 7-8, 1996. Dallas, Texas.
470. **XIVth Congress of the European Society of Cataract and Refractive Surgeons**, October 9-11, 1996, Gothenburg, Sweden. Perspectives on Phakic Implants, Moderator of Q&A Round Table Discussions, Myopic Implant, Intraocular Lenses in Phakic Eyes.
471. **The International Intra-Ocular Implant Club Annual Meeting**, October 10, 1996, Gothenburg, Sweden.
472. **American Academy of Ophthalmology**, October 24-31, 1996, Chicago, Illinois. Laser In-site Keratomileusis for the Correction of Myopia. Clear-Corneal Cataract Surgery & Recent Advances in Phaco. Refractive IOLs in Phakic and Aphakic Eyes. Advances & Future Trends in Excimer Refractive Surgery. Hexagonal Keratotomy. High Myopia LASIK with the Summit Apex Laser. Current Techniques of Refractive Surgery. Enhancement of PRK or LASIK Ablation Zone Using Arcuate Corneal Cuts. Perspectives on Phakic Implants. LASIK Results and Bilateral Surgery.

473. **Norman Gregg Lecture**, Royal Australian College of Ophthalmology Meeting, November 2-7, 1996, Perth Australia. Refractive Surgery...Present Realities and Future Prospects. Control of factors that cause astigmatism after penetrating keratoplasty. The Refractive surgery patient: Case selection and delivery of services. Phakic intraocular lens. Is this the Refractive surgery of the future?
474. **Dammam Ophthalmological Society**, December 21, 1996, Dammam, Saudi Arabia. Standards for Assessing Refractive Surgical Procedures.

## **1997**

475. **Manhattan Eye & Ear Infirmary Grand Rounds**, January 20, 1997, New York, New York. Advances in Laser Technology for Corneal Surgery.
476. **New York Laser Society**, January 20, 1997, New York, New York. Excimer Laser Delivery Systems for Laser In-Situ keratomileusis (LASIK).
477. **Emory University School of Medicine, Post Graduate Course Ophthalmology 1996**, February 7, 1997, Atlanta, Georgia. Phakic IOLs for Myopia.
478. **The International Intra-Ocular Implant Club Annual Meeting**, February 20-22, 1997, Casa de Campo, Dominican Republic.
479. **Hamilton Medical Center**, March 13, 1997, Dalton, Georgia. Contemporary Refractive Surgery.
480. **Keratomileusis Study Group Meeting (KMSG)**, March 14-17, 1997, Clearwater, Florida. Intraoperative Complication: Flap Surgery, Adjunctive Equipment, Results of LASIK and Arcuate Transverse Keratotomy Using the Summit Excimer Laser. Nomograms for LASIK with the Technolas Excimer Laser.
481. **Rio '97 Symposium**, March 20-23, 1997, Rio De Janeiro, Brazil. Comparison of Phakic IOLs and Corneal Surgery for the Correction of Myopia
482. **American Society of Cataract and Refractive Surgery Meeting**, April 25-29, 1997, Boston, Massachusetts. The Revolution in Refractive Surgery, Where will we be in five years from now in Refractive surgery, Laser in-situ keratomileusis for the correction of myopia, the NuVita Lens Program, Advanced issues in LASIK, My personal experience with high myopia lens implantation, Laser assisted in-situ keratomileusis, Single zone and multizone LASIK for the correction of low myopia, Complications of LASIK.
483. **Syrian Ophthalmological Society**, May 1-2, 1997, Damascus, Saudi Arabia.
484. **The IV International Congress of the Pan Arab Council of Ophthalmology**, May 5-8, 1997, Amman, Jordan. Phakic IOL for myopia, Dealing with corneal blindness.
485. **The Association of Research in Vision and Ophthalmology (ARVO)**, May 11-16, 1997 Ft. Lauderdale, Florida. LASIK for the correction of myopia in 995 consecutive eyes, Complications of LASIK, Risk factors for epithelial ingrowth after LASIK, Stromal responses during clinical haze and opacification.
486. **The American Ophthalmological Society**, May 18-21, 1997, Pebble Beach, California. Laser in-situ keratomileusis for the correction of myopia.
487. **ISRS World Refractive Surgery Symposium**, June 12-15, 1997, Orlando, Florida. The Technique. LASIK for correction of myopia in 995 consecutive eyes. The future of anterior chamber intraocular lenses for the correction of Refractive error. Complications of LASIK.

488. **15<sup>th</sup> Congress of the European Society of Cataract and Refractive Surgeons**, September 6-10, 1997, Prague, Czechoslovakia. LASIK Complications. Intraocular Refractive Surgery-Phakic IOLs. LASIK for Myopia: One Year Results in 1,000 Eyes. Refractive Surgery. Basic Principles & Pitfalls of Microkeratomes.
489. **Hospital Muguerza**, September 22-23, 1997, Monterey, Mexico. Refractive Corneal Surgery.
490. **7<sup>th</sup> International South African Congress on Cataract & Refractive Surgery**, September 27-October 1, 1997, Lost City at Sun City, South Africa. Results of 1,000 Consecutive LASIK Procedures for Myopia. Theoretical Comparison of Phakic IOL and Refractive Corneal Surgery.
491. **American Academy of Ophthalmology**, October 23-30, 1997, San Francisco, California. Critically Evaluating Refractive Surgery Presentations, Phakic IOLs, Biopic Technique, LASIK Previous Ocular Surgery, Refractive Surgery: Instant Volume v. Slowly Sustained Growth, Recent Experiences with the Ophthalmic Devices Advisory Panel, Prospective Randomized Comparison of Simultaneous and Sequential Bilateral Laser In-Situ Keratomileusis for the Correction of Myopia, Phakic IOLs: An Optically Superior Technique for the Correction of Ametropia, Current Techniques of Refractive Surgery, Automobile Air Bags and Refractive Surgery as New Sources of Ocular Trauma.

## **1998**

492. **Ophthalmic Laser Surgical Society Meeting**, January 19-20, 1998, New York, New York. Results of LASIK in 1,000 Consecutive Eyes, Potential for Customized Shaping of Individual Corneas.
493. **26<sup>th</sup> G. Victor Simpson Lecture**, Washington Eye Center, January 23-24, 1998, Washington, D.C. Refractive Surgery: Today and Tomorrow.
494. **Emory University School of Medicine, Post Graduate Course**, February 13-14, 1998, Atlanta, Georgia. KeratoRefractive Surgery in 1998.
495. **German Society of Cataract & Refractive Surgery**, March 13-16, 1998, Halle, Germany. Risk-Benefit-Ratio in LASIK Procedures: The Atlanta Experience. Perspectives of Refractive Surgery.
496. **American Society of Cataract & Refractive Surgery**, April 17-21, 1998, San Diego, California. Refractive Surgery... Instant Volume vs. Slowly Sustained Growth. LASIK: Medical Procedure of Retail Product? LASIK to Correct Myopia & Astigmatism Using a NIDEK EC5000 Excimer Laser. Cornea Refractive Surgery Limits. The Place of Phakic Implants in Refractive Surgery.
497. **The Association of Research in Vision and Ophthalmology (ARVO)**, May 11-15, 1998, Ft. Lauderdale, Florida. LASIK for the Correction of Myopia and Astigmatism Using a Nidek EC-5000 Excimer Laser.
498. **International Congress of Ophthalmology**, June 20-25, 1998, Amsterdam. Correcting Astigmatism and Myopia, Phakic Intraocular Lenses, Correction of Myopia with Implants.
499. **World Refractive Surgery Symposium**, July 25-28, 1998, Orlando, Florida. LASIK for the Correction of myopia and Astigmatism Using a Scanning Excimer Laser.
500. **EI-Maghraby Eye Hospital**, July 31, 1998, Abu Dhabi, Saudi Arabia. Phakic Intraocular Lenses for the Correction of Myopia.
501. **Symposium on High Myopia**, September 2-4, 1998, Lausanne, Switzerland. Refractive Surgery Results. Limits and Results from LASIK, LASIK vs. Phakic IOLs in the correction of high myopia. Prospective study of LASIK for the correction of myopia and compound myopic astigmatism using a scanning laser.

502. **William N. Williford Lecture**, October 16-17, 1998, Memphis, Tennessee. Progress with LASIK: Broadbeam, Scanning, Slit and Flying Spot Lasers.
503. **American Academy of Ophthalmology**, November 6-11, 1998, New Orleans, Louisiana. Phakic Chamber IOLs, CW Diode Laser Thermokeratoplasty, Analysis of Safety of Bilateral Simultaneous LASIK for the Correction of Myopia, High Incidence of Cataract Formation after Implantation of a Silicone Posterior Chamber Lens in Phakic, Highly Myopic Eyes, Incidence and Surgery of Cataract High Myopic Patients Corrected by Angle Supported Phakic Anterior Chamber Lenses, Patient Expectations: Can we give them what they want? One Year Results of the ICRS (R ) from the Phase III Study for the Correction of Myopia.
504. **Nidek 4<sup>th</sup> Annual Excimer Laser User's Meeting**, December 11-13, 1998, Cancun, Mexico. Randomized Comparisons of Simultaneous & Sequential Bilateral LASIK.

### **1999**

505. **American Society of Cataract and Refractive Surgery Meeting**, April 9-13, 1999, Seattle, Washington. Limits of corneal Refractive surgery, Bilateral complications following LASIK, Different types of Refractive phakic IOLs, can the ICRS offer enhanced visual capabilities?
506. **The Association of Research in Vision and Ophthalmology (ARVO)**, May 8-12, 1999, Ft. Lauderdale, Florida. LASIK for myopia & astigmatism in 2100 consecutive eyes.
507. **The Tenth Biennial Contact Lens Seminar, May 21-22, 1999**, Atlanta, Georgia. Refractive Surgery: Past, Present and Future.
508. **American Ophthalmological Society Meeting (AOS)**, May 23-26, 1999, Santa Barbara, California.
509. **XII Congress European Society of Ophthalmology (SOE)**, June 27-July 1, 1999, Stockholm, Sweden. New trends in Refractive IOL for the correction of ametropia. LASIK & Phakic Intraocular Lenses: a comparison.
510. **Oxford Ophthalmological Congress**, July 4-7, 1999, Oxford, England. Cornea.
511. **World Refractive Surgery Symposium**, July 16-18, 1999, Miami, Florida. Phakic IOLs. Comparison of different phakic IOLs. Clinical results for LASIK correction of hyperopia with astigmatism with the Autonomous Technologies laser. Removability of KeraVision Intacs: Expanding the patients' options.
512. **LASIK Institute Meeting**, July 22-25, 1999, Carmel, California.
513. **Southern African Society of Cataract and Refractive Surgery (SASCERS)**, August 7-11, 1999, Durban, South Africa. Analysis of 100 consecutive eyes operated with Hansatome. Frequency of bilateral complications during and after bilateral simultaneous LASIK in more than 2,000 cases. INTACS (ICRS) for low myopia in 400 eyes with one year follow-up. Continuous wave Diode infrared laser for LTK in presbyopia. A new flying laser spot laser. Results of LASIK using the Nidek EC-5000 laser 1000 consecutive eyes for myopia and astigmatism.
514. **American Academy of Ophthalmology**, October 21-29, 1999, Orlando, Florida. Clinical results with the NuVita Anterior Chamber Phakic IOL. Prospective Study of LASIK for the Correction of Myopia & Astigmatism in 2103 Consecutive Eyes. Will Phakic IOLs Replace LASIK? Limits of Corneal Refractive Surgery. The Concept of Phakic Refractive IOL.
515. **Excimer Laser Research Community**, December 8, 1999, Tokyo, Japan. How Will LASIK Achieve 20/10 Vision by the Year 2010? One Hundred Year Development of Refractive Surgery from RK to Custom Laser.

516. **Nidek International Users Meeting**, December 10-12, 1999, Miyazaki, Japan. Comparison of Efficacy of Two LASIK Nomograms for the Nidek EC-5000 Excimer Laser. Comparison of Intraoperative and Early Postoperative Complications of the Chiron Hansatome and Automated Corneal Shaper in Laser In-Situ Keratomileusis.

## **2000**

517. **SUNY Brooklyn Ophthalmology Society Meeting**, January 26-27, 2000, Brooklyn, New York. LASIK/PRK Pearls. What I do Differently. Refractive Surgery Complications and Management. The Business of Refractive Surgery: How to Build a Successful Practice.
518. **EI-Maghraby Eye & Ear Hospital**, February 1-3, 2000, Abu Dhabi. Current Trends in Refractive Surgery. LASIK vs Artisan Lens for the Correction of High Myopia.
519. **4<sup>th</sup> International Ophthalmic Symposium**, February 9-11, 2000, Kuwait. LASIK for Keratoconus. IOL Calculations after Refractive Surgery. Corneal Ring Complications and Future Improvement.
520. **1st International Congress on Wavefront Sensing and Aberration-Free Refractive Correction**, February 12-13, 2000, Santa Fe, New Mexico. Aberration-Free Refractive Surgery, Contact Lenses, and IOLs – Discussant. Wavelight Aberration-Free LASIK Outcomes – Discussant.
521. **New Orleans Academy of Ophthalmology Meeting**, February 18-20, 2000. Custom ablations. Phakic IOLs.
522. **2<sup>nd</sup> International Forum on Refractive Surgery**, March 10-14, 2000, Rome, Italy. Intracorneal rings/lenses.
523. **Massachusetts Eye & Ear Infirmary**, March 17-18, 2000, Boston, Massachusetts. Paul Chandler Lecture: Current Status of Phakic IOLs. Refractive Surgery in Perspective: Can We Achieve 20/10 by the Year 2010?
524. **International Refractive Surgery Conference & Global Refractive Exploration**, April 13-16, 2000, Shanghai, China. The Future of Refractive Surgery. Current Status of Phakic IOLs. Intracorneal Rings.
525. **Case Western Reserve University**, April 18, 2000, Cleveland, Ohio. Lorand V. Johnson Lecture: Current Status of Phakic IOLs. LASIK for Myopia.
526. **Association for Research in Vision and Ophthalmology (ARVO) Meeting**, April 30-May 5, 2000, Fort Lauderdale, Florida. Comparison of Safety & Efficacy of Two LASIK Nomograms.
527. **American Society of Cataract and Refractive Surgery (ASCRS) Meeting**, April 19-24, 2000, Boston, Massachusetts. Comparison of Refractive Outcome of Two LASIK Nomograms for the Nidek EC-5000. Phakic IOLs.
528. **Refractiva 2000**, May 31-June 1, 2000, Alicante, Spain. Zyoptix & Other Customized Ablations.
529. **International Ophthalmic Microsurgery Study Group**, June 4-6, 2000, Copenhagen. Exchangeability & Removability of Intacs.
530. **Aegean Cornea Meeting**, June 30-July 2, 2000, Crete, Greece. Comparison of Safety & Efficacy of Two LASIK Nomograms for the Nidek EC-5000 Excimer Laser. Phakic Intraocular Lens Designs.

531. **ISRS World Refractive Surgery Symposium**, July 20-24, 2000, Miami, Florida. Simultaneous vs Sequential LASIK. 3946 Eyes with the Nidek EC-5000 Laser – Six Month Follow Up. Refractive IOLs – Where Are We Heading? LASIK I Session – Moderator. Refractive IOL Session – Moderator.
532. [Refr@ctive.on-line](#) and [@berrometry.on-line](#), October 6-7, 2000, Milan, Italy. Moderator - Surgical Strategies I; Aberrometric Techniques; Custom Ablation. Lectures: Nomograms to Improve Results with Nidek EC-5000; Aberrometers – SRR; Flap Management After LASIK.
533. **American Academy of Ophthalmology**, October 20-25, 2000, Dallas, Texas. ISRS: Overview of Current Technology and Techniques in Refractive Surgery; Introduction to Wavefront and LASIK. Moderator: ISRS session – LASIK vs PRK vs ICRS for Low Myopia (-0.5 to -4.0D); AAO Breakfast with the Experts Roundtable Discussion – Phakic Intraocular Lenses. Keynote Address for AAO Refractive Surgery Section of Subspecialty Day Program – Phakic Refractive Lens Implants, A Review. Instructor: Present Status of Refractive Anterior Chamber Phakic IOLs; Cataract and Refractive Surgery Update; Lamellar Refractive Surgery with a Microkeratome; Hyperopia Surgery: A Global Approach. Industry: Nidek Segmental Ablation Technology, Improving Nidek Clinical Nomograms – Nidek Booth.
534. **6<sup>th</sup> Annual Nidek International Excimer Laser Symposium**, December 7-9, 2000, Rio de Janeiro, Brazil. Medical Director for the entire symposium. Moderator – Nidek International Investigator Group Meeting; Patient Recruiting Session. Moderator and Panel Discussant - LASIK/LASIK After Previous Surgery Session; Complications Session; Bioptics Session. Panel Discussant – Hyperopia Session; Topography and Wavefront Session. Poster Presentation: Comparison of Safety & Efficacy of Two LASIK Nomograms for the Nidek EC-5000 Excimer Laser.
535. **New York Society of Clinical Ophthalmology**, December 12, 2000, New York Eye & Ear Infirmary, New York. History of Refractive Surgery. LASIK Complications. Refractive Surgery – Diverse Techniques are Superior to LASIK Alone.
- 2001**
536. **Duke University Medical Center**, February 8, 2001, Durham, North Carolina. Bryan Research Lecturer: Will We Reach 20/10 by 2010? Lecture to Residents: The Ideal Refractive Surgery Procedure.
537. **2<sup>nd</sup> International Congress on Wavefront Sensing**, February 2-12, 2001, Monterrey, California. Moderator of roundtable discussion: Revealing Company Secrets.
538. **9<sup>th</sup> International South African Cataract & Refractive Surgery Congress**, February 17-22, 2001, Cape Town, South Africa. Nidek I vs Nidek II.
539. **Baylor College of Medicine**, March 10, 2001, Houston, Texas. David Paton Medal Lecturer: Bioptics, Trioptics – Confluence of Refractive Surgical Techniques. Lecture to Residents: Improvement of LASIK Outcomes by Nomogram Adjustment with the Nidek EC-5000 Laser.
540. **1<sup>st</sup> Annual DTK Meeting**, March 15-16, 2001, London, England. Current Refractive Surgery; Overview of FDA Study of DTK in US.
541. **Pan Arab African Council of Ophthalmology**, April 1-4, 2001, Beirut, Lebanon. Comparison of Safety and Efficacy of Two LASIK Nomograms for the Nidek EC-5000; Phakic IOLs; High Corneal Ametropia vs Intraocular Surgery; Intracorneal Implants for Hyperopia; Moderator – Catch the Wave Session.
542. **American Society of Cataract and Refractive Surgery (ASCRS) Meeting**, April 27-29, 2001, San Diego, California. Refractive Surgery is Not a Commodity; Nidek's Integrated Approach to Custom Ablation (Nidek booth).

543. **International Society of Refractive Surgery Summer Refractive Symposium**, July 27-29, 2001, Orlando, Florida. Nidek's Integrated Approach to Custom Ablation; The Future of Phakic IOLs; Moderator – Phakic IOLs and LASIK Session; Introduction – Catch the Wave Part 2 Session.
544. **Argentine Association of Refractive Surgery**, August 23-26, 2001, Buenos Aires, Argentina. Nidek OPD Scan Aberrometer; Combined Procedures in Refractive Surgery; Management of LASIK Flap Wrinkles, Epithelial Ingrowth, and Repositioning Artisan Phakic IOLs. Moderator – Refractive Surgery Session.
545. **31<sup>st</sup> Brazilian Congress of Ophthalmology**, September 5-9, 2001, Sao Paulo, Brazil. Wavefront Aberrations; Phakic IOLs; What is Real in Wavefront Analysis?
546. [Refr@ctive.on-line](#), [Topogr@phy.on-line](#), [@berrometry.on-line Congress](#), September 13-15, 2001, Milan, Italy. Update on Nidek OPD Aberrometer; Diode Thermal Keratoplasty (DTK); Combined Procedures in Refractive Surgery; Role of Phakic IOLs; Moderator – Surgical Strategies II Session, Custom Ablation Session.
547. **3<sup>rd</sup> International Forum on Refractive Surgery**, October 20, 2001, Milan, Italy. Custom Ablation Concepts with the Nidek OPD; Competitive Analysis Among Phakic IOLs.
548. **International Society of Refractive Keratoplasty Fall Refractive Symposium**, November 9-10, 2001, New Orleans, Louisiana. Diode Thermal Keratoplasty; Foldable Anterior Chamber Phakic Intraocular Lenses; Enhancements and Combined Procedures. Introduction to Catch the Wave Session. On panel for Breakfast with the Experts session.
549. **American Academy of Ophthalmology**, November 10-13, 2001, New Orleans, Louisiana. Present Status of Refractive Anterior Chamber Phakic IOLs. Refractive Surgery Section of Subspecialty Day Program – Pearls in Hyperopic LASIK. Discussant: The Staar Implantable Contact Lens for Myopia: Interim Results. Instructor: LASIK Didactic Course; Hyperopia Surgery Course. Industry: Criteria for Ideal Phakic IOL, Bausch & Lomb Booth.
550. **Portuguese Society of Ophthalmology**, November 30-December 2, 2001, Porto, Portugal. Keynote Address: Future of Phakic IOLs. The Ideal Refractive Procedure.
551. **Nidek International Investigators Meeting**, December 14-15, 2001, Monte Carlo, Monaco. LASIK-NIDEK Keratome MK-2000 & New Procedures/New Technologies 2 Sessions – Chairman. LASIK-NIDEK Keratome MK-2000 & New Procedures/New Technologies 2 Sessions - Panel Discussion Moderator. Bioptics; Complication Management; Topography & Wavefront Basic Study – Nidek OPD-Scan – Panel Discussion Member.

## **2002**

552. **3<sup>rd</sup> International Congress of Wavefront Sensing and Aberration-Free Refractive Correction**, February 15-28, 2002, Interlachen, Switzerland. Current problems in customized ablations – Jury Member. “Reveal Company Secrets” – Judge.
553. **Ophthalmological Society of South Africa**, March 2-5, 2002, Durban, South Africa. Improvement of LASIK results with the Nidek EC-5000 and personal nomogram. Use of the Nidek OPD Scan in Refractive Surgery.
554. **XXIXth International Congress of Ophthalmology**, April 21-25, 2002, Sydney, Australia. Keynote address: Latest Advances in Ophthalmology – Cataract & Refractive Surgery. Phakic IOLs. ISRS Experts Panel Forum – Panelist.
555. **American Society of Cataract and Refractive Surgery Meeting**, June 1-5, 2002, Philadelphia, Pennsylvania. Phakic IOLs in Refractive Surgery.

556. **Aegean Cornea VI Meeting**, July 5-12, 2002, Halkidiki, Greece. Visual rehabilitation with contact lenses after LASIK.
557. **Latin American Caribbean Ophthalmology Meeting**, September 5-7, 2002, Aruba. Visual Rehabilitation with Contact Lenses after LASIK; Improving LASIK Outcomes with the Nidek Laser Nomogram; Phakic IOL and LASIK in Refractive Surgery; Confluence of Cataract and Refractive Surgery.
558. **European Society of Cataract and Refractive Surgery Meeting**, September 7-11, 2002, Nice, France. Intraocular Implants – Where are we Heading? Visual Rehabilitation with Contact Lenses after Laser in situ Keratomileusis.
559. **Refractiva On-Line Meeting**, September 12-26, 2002, Milan, Italy. Clinical Results of Emory InterWave® Aberrometry. Confluence of Cataract and Refractive Surgery. Current Designs of Phakic Intraocular Lenses.
560. **Emory University School of Medicine Cornea Conference**, October 11, 2002, Atlanta, GA. Survey of Specific Refractive Surgical Techniques.
561. **American Academy of Ophthalmology Meeting**, October 18-22, 2002, Orlando, Florida. ISRS Meeting – Artisan Lens for Correction of Myopia in Eyes at Risk for LASIK; Management of Post LASIK Keratitis; Accommodation with Crystalens in Pseudophakia; LASIK Enhancement and Lamellar Surgery; Hyperopia on Trial: the case of the +3.00 41 year old (Judge). Refractive Surgery Special Interest Group - IOL Calculations after Refractive Surgery. AAO – Permavision Intracorneal Lens for the Correction of Hyperopia Between 1.00 and 3.00 D; Iris Fixed Artisan Lens for the Correction of Myopia Between –10.00 and –25.00 D: 5 Year Results. Instructor: Small Incision Laser Cataract Surgery with the Dodick Laser; Future Trends (in The Comprehensive LASIK Course). Industry: Chair, Nidek Investigators Meeting.
562. **15<sup>th</sup> CIBA Vision Symposium**, October 31 and November 2, 2002, Osaka, Japan. Confluence of Refractive Surgery Techniques.
563. **Nidek Investigator's Meeting**, November 1, 2002, Hakone, Japan. Confluence of Refractive Surgery Techniques.
564. **Nidek Investigator's Meeting**, December 5-7, 2002, Shanghai, China. Keynote address: Latest Advances in Refractive Surgery. Panel Discussion Member: Surgical Strategies; LASIK vs LASEK; Topography and Wavefront Basic Study – Nidek OPD Scan; New Nidek Hyperopic Software; NAVEX Nidek Custom Ablation. Panel Discussion Chairman: Patient Flow and Examinations. Moderator: New Technique Session.

## **2003**

565. **4th International Conference on Wavefront Sensing and Aberration Free Refractive Correction**, February 14-16, 2003, San Francisco, California. Custom Ablation Results with the NAVEX.
566. **American Society of Cataract and Refractive Surgery Meeting**, April 12-16, 2003, San Francisco, California. Confluence of Refractive Surgery; Custom Ablation: The Reality check against the average patient population; Custom Ablation Results with the NAVEX.
567. **Association for Research in Vision and Ophthalmology (ARVO) Meeting**, May 5-7, 2003, Fort Lauderdale, Florida.
568. **European Society of Cataract and Refractive Surgery Meeting**, September 5-10, 2003, Munich, Germany. It is not about the incisions. Keynote address: Overview of the NAVEX Clinical Results. Course group leader: Treating Complications of Refractive Surgery.

569. [Refr@ctive.on-line](#) and [@berrometry.on-line 2003](#), September 11-13, 2003, Milan, Italy. Emory InterWave Patient-Guided Aberrometry. Confluence of refractive and intraocular lens surgery.
570. **Viaggio Nel Globo**, October 10-11, 2003, Conegliano, Italy. Present and future of refractive surgery.
571. **8<sup>th</sup> Allergan Symposium**, October 24, 2003, London, England. Wavefront-guided ablation works wonders on the surface (PRK, LASEK) or stroma (LASIK).
572. **RSIG/ISRS Subspecialty Day**, November 14-15, 2003, Anaheim, California. Keynote address: How many times can we ablate a Cornea? When to say When? NAVEX Clinical Update.
573. **American Academy of Ophthalmology Meeting**, November 15-18, 2003, Anaheim, California. It is not about the incision. Screening patients for phakic IOLs. Discussant : Paired randomized comparisons of induced spherical aberration after LASIK using the Alcon LADAR Vision 4000, Bausch & Lomb Technolas 271A and the VISX S3. Overview of NAVEX Clinical Results. Enhancements and Combined Procedures.

## **2004**

574. **Utah Ophthalmological Society Meeting, Salt Lake City, Utah, February 27, 2004.** Phakic IOLs – Selection of Patients for Refractive Surgery, NAVEX Surgical Technique, Refractive Surgery Over a Lifetime.
575. **Association for Research in Vision and Ophthalmology (ARVO) Meeting**, April 25-29, 2004, Fort Lauderdale, Florida.
576. **25<sup>th</sup> Anniversary Rayner Medal Lecture**, September 9, 2004, Chester, UK. Refractive Surgery.
577. **European Society of Cataract and Refractive Surgery Meeting**, September 17-22, 2004, Paris, France. Introduction on the Importance of Biometry in Refractive Surgery
578. [Refr@ctive.on-line](#) and [@berrometry.on-line 2004](#), September 23-25, 2004, Milan, Italy. Refractive Surgery Throughout a Lifetime. Pathology and Ultrastructure of Human LASIK Corneas.
579. **State University of New York Downstate Medical Center (SUNY)**, October 12, 2004, Brooklyn, New York. Refractive Surgery for a Lifetime. Histology of Human LASIK Corneas.
580. **American Academy of Ophthalmology**, October 22-26, 2004, New Orleans, Louisiana. Safety and Effectiveness of Hyperopic LASIK Using the Nidek EC-5000 Excimer Laser with a 7.0mm Optical Zone and 9.0mm. Enhancements and Repairs. Discussant: Correction of high myopia with different phakic anterior chamber lenses and angle supported lens and Verisyse Iris Claw. Embracing Work, Cherishing Life. Castroviejo Medalist Lecture: Whence Refractive Surgery: corneal surface, corneal stroma or inside the eye? Concluding remarks: Refractive Surgery Over a Lifetime: Case Study of a Hypothetical Patient. Hyperopic LASIK results of Nidek FDA Trial. Histology of Human Eyes After LASIK.

## **2005**

581. **4<sup>th</sup> Annual San Francisco, Cornea, Cataract & Refractive Surgery Symposium**, February 4, 2005, San Francisco, California. Phakic IOLs.

582. **Nidek Refractive Surgery Symposium**, April 6, 2005, Dubai. Chairman of Symposium. Refractive Surgery for a Lifetime. Nidek OPDCAT v CATz Clinical Results. Hyperopic LASIK outcomes using the NIDEK EC-5000 excimer laser with a 6.0 mm optical zone and 9.0 mm treatment zone.
583. **Pan Arab African Council of Ophthalmology**, April 7-10, 2005, Dubai. Refractive Surgery over a Lifetime.
584. **World Cornea Congress V**, April 13-15, 2005, Washington, D.C. Hyperopic LASIK outcomes using the Nidek EC-5000 excimer laser with a 6.0 mm optical zone and 9.0 mm treatment zone.
585. **Association for Research in Vision and Ophthalmology (ARVO) Meeting**, May 1-5, 2005.
586. **American Society of Cataract and Refractive Surgery Meeting**, April 15-20, 2005, Washington, D.C. Refractive femtosecond laser. LASIK complications. Personal experience with the Verisyse Phakic IOL; Technique, Pearls and Outcomes. Hyperopic LASIK outcomes using the EC-5000 excimer laser. Refractive corneal surgery and MICS.
587. **Nidek International Users Meeting**, June 2 - 3, 2005, Beijing, China. Results of US FDA Hyperopia Trial Using the Nidek EC-5000. Pathology of Human Corneas After LASIK. Survey of Phakic IOLs.
588. **Asia Pacific Academy of Ophthalmology Meeting**, June 3-6, 2005, Beijing, China. Refractive sSurgery for a Lifetime.
589. **China Medical University Ophthalmology Hospital**, June 6, 2005, ShengYang, China. Refractive surgery and Nidek platform. Clinical pearls in LASIK Surgery.
590. **South African Society of Cataract and Refractive Surgeons**, August 18-21, 2005, Durban, South Africa. Human Eye Bank LASIK Corneas: histopathology, ultrastructure, biomechanics. Moderator: Basic LASIK Course. Kritzinger Safari Lecture.
591. **European Society of Cataract and Refractive Surgery Meeting**, September 10-14, 2005, Lisbon, Portugal.
592. **American Academy of Ophthalmology**, October 13-18, 2005, Chicago, Illinois. Hyperopic LASIK with the Nidek EC-5000 excimer laser (6.0mm OZ/9.0mm TZ) vs. Reported Outcomes for Other U.S. Approved. Introduction to Troutman Award. Jury President: Phakic IOLs: Taken Court. Enhancements and Repairs. Future Trends. Updated results of NIDEK FDA trial for hyperopia. Combining corneal refractive surgery with phakic IOLs: bioptics.

## **2006**

593. **Dodick Laser Phaco Emulsification Meeting**, Jan. 21 – 23, 2006, Manhattan Eye and Ear Hospital, New York, New York.
594. **VIIth International Congress of Wavefront**, Jan. 26 – 29, 2006, Nassau, Bahamas. *Presenter:* AcuFocus Corneal Implant. *Presenter:* Unanswered technical challenges that still need to be overcome (Nidek perspective). *Presenter:* Future of laser vs. IOL-based optimized & customized refractive surgery.
595. **Hope Hospital Foundation Lecture**, Feb. 10 -14, 2006, Recife, Brazil. *Presenter:* Refractive surgery as part of general ophthalmic practice.
596. **2006 World Ophthalmology Congress**, Feb. 18 – Mar 2, 2006, Sao Paulo, Brazil. *Presenter:* ALCRS mtg, Combinato cirurgia refractive corneal con lente fauico: Bioptics. *Presenter:* Clinical use & update of NAVEX EC-5000CXIII. *Presenter:* Refractive surgery for the general ophthalmologist. *Chairman:*

- Refractive surgery throughout a lifetime. *Presenter*: Refractive surgery throughout a lifetime. *Presenter*: SS day five continent symposium: controversies in refractive surgery. *Presenter*: Refractive surgery on the edge.
597. **Pittsburgh Ophthalmological Society**, Mar 2–4, 2006. 26<sup>th</sup> Annual *Harvey Thorpe Lecture*: A LASIK surgeon is not a refractive surgeon. *Lecture to Residents*: LASIK: histopathology, ultrastructure and biomechanics. *Presenter*: Refractive surgery for a lifetime.
598. **55<sup>th</sup> Annual New Orleans Academy of Ophthalmology**, Mar 10 -12, 2006, New Orleans, LA. *Presenter*: Phakic IOLs – current international status. *Presenter*: All you wanted to know abot clinical corneas – corneal responses to disease and injury. *Presenter*: 13 years of personal experience with Verisyse-stype phakic IOL. *Presenter*: Personal technique of implantation of phakic IOL. *Presenter*: A LASIK surgeon is not a refractive surgeon. *Presenter*: Refractive surgery for a lifetime.
599. **American Society of Cataract and Refractive Surgery/American Society of Ophthalmic Administrators (ASCRS/ASOA) 2006 Congress**, Mar 17 – 22, 2006, San Francisco, CA. *CLAO Richard L. Lindstrom Lecturer*: Retreatment and sequential and combined procedures in refractive surgery. *Presenter*: Lamellar 8surgery will continue to lead. *Presenter*: Why I selected CK for my practice. *Presenter*: Corneal topography-driven wavefront clinical results. *Presenter*: OPD Scan II + OPD–Station. *Presenter*: Biomechanical corneal remodeling offsets peripheral compensation for radial ablation efficiency losses in eyes.
600. **International Society of Refractive Surgery of the /American Academy of Ophthalmology (ISRS/AAO) 2006 Meeting**, May 26 – 28, 2006, Istanbul, Turkey. *Presenter*: Verisyse lens implantation. *Moderator*: Section IV, The curring edge in refractive and cataract surgery. *Presenter*: Refractive surgery for a lifetime.
601. **State University of New York (SUNY) – Downstate, Brooklyn, NY. Brooklyn 34<sup>th</sup> Annual Alumni Mtg Ophthalmology 2006**, June 8, 2006, Brooklyn, NY. *Presenter*: Current status of phakic intraocular lenses.
602. **Australian Society of Cataract and Refractive Surgeons 2006**, July 14 – 17, 2006, Hayman Island, Australia. *Presenter*: Optimized prolate ablation and other advanced techniques with the Nidek EC5000 laser platform. *Presenter*: Refractive Surgery for a lifetime.
603. **XXIV Congress of the European Society of Cataract and Refractive Surgery (ESCRS)**, Sept 9 – 13, 2006, London, England. *Moderator of ISRS/AAO session V*: The perfect solution for presbyopia! *Keynote address at ISRS/AAO scientific session*: Crystal ball – what will be the future?
604. **AAO/APOA**, November 11 – 14, 2006, Las Vegas, Nevada...Subspecialty Day (Refractive Surgery 2006) *Presenter*: FDA Trial of the Nidek Custom Aspheric Treatment Zone (CATz). *Moderator*: Keys to avoiding medicolegal trouble. *Panelist*: Section X, Video Complications. *Instructor in course*: Phakic IOLs: Emerging technology in refractive surgery. *Presenter*: The Comprehensive LASIK Course (Skills Transfer) presenting “Future Trends.” *Senior Instructor*: ISRS/AAO sponsored Innovation in Refractive Surgery: So New It May Not Be True. *Presenter*: Presbyopia Symposium: AcuFocus Inlay: Current Status.
- 2007**
605. **Dulaney AIRS Symposium**, March 4 – 7, 2007, Aspen, Colorado. *Presenter*: The role of the plaintiff's witness is protecting ophthalmology. *Moderator, Session V*: Patient's perspective.
606. **IXth Int'l Congress of the Middle East African Council of Ophthalmology (MEACO)**, March 29 – April 1, 2007, Dubai, United Arab Emirates. *Presenter*: Laser in situ keratomileusis for spherical hyperopia and hyperopic astigmatism using the NidekEC-5000 excimer laser. *Presenter*: How to write a scientific paper. *Presenter*: Pendular microkeratome (personal experience with the microkeratome. *Participant in debate*:

- LASIK is my preference. *Moderator:* So new it may not be true. *Presenter:* Small aperture corneal inlay for presbyopia (AcuFocus). *Presenter:* Update on hypertrophic LASIK. *Presenter:* Personal experience with the CrystaLens accommodating IOL.
607. **American Society for Cataract and Refractive Surgery (ASCRS) 2007 Congress**, April 28 – May 2, 2007, San Diego, California. *Presenter:* Retrospective chart review of patients with a CrystaLens IOL and their expectations regarding post-op visual acuity. *Presenter:* LASIK for spherical hyperopic and hyperopic astigmatism using the Nidek EC-5000 excimer laser. *Moderator:* Intraocular surgery: aspheric IOLs.
608. **Association for Research in Vision and Ophthalmology (ARVO)**, May 5 – 8, 2007, Ft. Lauderdale, Florida. *Presenter:* Professional liability vs. product liability – do clinical trials cross the line?”
609. **American Ophthalmological Society**, May 20 - 23, 2007, White Sulphur Springs, West Virginia. Paper presentation: “Customized topographically- guided LASIK treatment of myopic astigmatism.”
610. **State University of New York (SUNY) 35<sup>th</sup> Annual Alumni Mtg - Ophthalmology 2007**, June 14, 2007, Brooklyn, New York. *Moderator:* “Corneal panel discussion.” *Presenter:* “Corneal inlays for presbyopia.”
611. **European Society for Cataract and Refractive Surgery (ESCRS)**, Sept 8 – 12, 2007, Stockholm, Sweden. *Presenter:* “Pitfalls in multi-country, multi-doctor refractive surgery data collection.” *Presenter:* “Human donor corneas that had LASIK: clinical pathological correlations.” *Presenter:* “Topography-guided ablation.” *Moderator:* Session IV, Controversies.
612. **Ocular Surgery News (OSN) Meeting, Oct. 13 – 14, 2007, New York City, NY.** *Presenter:* [“Customized topographically-guided LASIK treatment of myopic astigmatism.”](#) *Panelist:* “When do I jump to the surface for LVC?” *Presenter:* Waring Medal Presentation.
613. **American Academy of Ophthalmology Annual Meeting**, Nov. 10 - 13, 2007, New Orleans, LA. *Presenter:* “Custom aspheric treatment using the Nidek EC-5000: 9 month results from FDA study.” *Moderator:* Section XI: “Hot, Hotter, Hottest: Late Breaking News.” *Instructor:* Course #196: “ISRS/AAO sponsored innovation in refractive surgery: so new it may not be true.”
614. **Singapore Eye Meeting**, Nov. 21, 2007, Singapore. Guest Lecturer: *The confluence of corneal refractive and intraocular lens surgery.*”

## **2008**

615. **Hawaiian Eye 2008**, Jan. 20-25, 2008, Oahu, Hawaii. *Presenter:* “Adventures on the Peaks, down the Steeps, and in the Deeps.” *Presenter:* “Customized topographically guided LASIK treatment of myopic astigmatism.”
616. **Aspen Invitational Refractive Symposium (Dulaney-AIRS)**, March 7-13, 2008, Aspen, CO. *Presenter:* “Adventures on the Peaks, down the Steeps, and in the Deeps.” *Presenter:* “Results of the Nidek FDA Trial of Topographically Guided Lasik.”
617. **Vanderbilt Eye Institute Dedication**, April 4-5, 2008, Nashville, TN. *Presenter:* “Refractive Surgery for a Lifetime”
618. **American Society of Cataract & Refractive Surgery (ASCRS) Congress**, April 5-9, 2008, Chicago, IL. *Presenter:* “Refractive Lens Exchange + Multifocal IOLs, Laser Vision Correction, Phakic IOLs, and CK: Basic Course on Adding Refractive Surgery to Your Practice,” *Presenter:* “Successful Prevention of PCO by ND: YAG Capsule Cleaning During Cataract Surgery: 1-Year Follow-up of 17 Eyes,” *Presenter:* “Phakic IOL Implantation and New Technologies: Improving Patient Safety, Satisfaction, and Complication Management”

619. **The Association for Research in Vision and Ophthalmology (ARVO) Weisenfeld Lecture**, April 27 – May 1, 2008, Fort Lauderdale, FL. *Presenter*: “It’s Only Glasses: Refractive Surgery, Vision Impairment and Quality of Life”
620. **Emory Grand Rounds**, June 13, 2008, Atlanta, GA. *Presenter*: “It’s Only Glasses: Refractive Surgery, Visual Disability, and Quality of Life”
621. **European Society of Cataract and Refractive Surgery**, September 12 – 17, 2008, Berlin, Germany. *Presenter*: “Acufocus Corneal Inlay for Presbyopia,” *Presenter*: “Prevention of Posterior Capsule Opacification by Nd: YAG Capsule Cleaning During Cataract Surgery,” *Presenter*: “Topographically-Guided LASIK for Myopia with the Nidek CXII CATz Algorithm,” *Presenter*: “Success Criteria of Artisan (Verisyse) or Artiflex (Veriflex) and ICL”
622. **Ocular Surgery News (OSN) Meeting**, October 3 – 5, 2008, New York City, NY. *Presenter*: Waring Medal Presentation
623. **American Academy of Ophthalmology Annual Meeting**, November 7 – 11, 2008, Atlanta, GA. *Presenter*: “Prevention of Posterior Capsule Opacification by Nd:YAG Capsule Cleaning During Cataract Surgery,” *Presenter*: “The Tetraflex vs. Monofocal Control Visual Accommodative Testing in US FDA Multicenter Investigation,” *Moderator*: “Hot, Hotter, Hottest: Late Breaking News.”

## 2009

624. **International Intra-Ocular Implant Club**. February 10 – 15, 2009, New Zealand. *Presenter*: Corneal Refractive Surgery.
625. **Emory Grand Rounds**, March 6, 2009, Atlanta, GA. *Presenter*: “Prevention of Posterior Capsule Opacification by Nd: YAG Capsule Cleaning During Cataract Surgery”
626. **10<sup>th</sup> Annual Meeting and Resident’s Day**. May 7-8, 2009. Bowman-Gray Dept of Ophthalmology at Wake Forest University, city and state. *Presenter*: *Current Status of Laser In Situ Keratomileusis; Refractive Surgery for a Lifetime.*

## 2010

627. **Cataract Surgery and Phacoemulsification Course: Bradford Shingleton, MD, and Bonnie Henderson, MD**. Jan. 18-19, 2010. Boston, MA.
628. **Aspen Invitational Refractive Surgery Society**. March 7-10, 2010. Aspen, Colorado. *Presenter*: *Laser Photolysis of Lens Corneal Epithelial Cells to Prevent Capsular Opacities After Cataract Surgery*. *Panelist*: *Femtosecond Laser Cataract Surgery*.
629. **Laser Capsule Opacity Prevention Meeting (LCOP)**. March 13, 2010. Alicante, Spain. Meeting Chairman. *Presenter*: *Prospective, Randomized, Masked Bilateral Comparison of LCOP and Standard Capsule Cleaning After Phacoemulsification for Cataract*.
630. **World Cornea Congress VI**. April 7-9, 2010. Boston, MA.
631. **American Society of Cataract and Refractive Surgery**. April 9-14, 2010. Boston, MA. *Panelist*: *Keratorefractive Presbyopia: Laser Based*.

632. **Weaver Lecturer, 27<sup>th</sup> Annual Wake Forest University Eye Center Conference, Bowman-Gray Campus.** Lecture Title: *Refractive Errors: The Number One Cause of Visual Disability*. May 7, 2010, Winston-Salem, North Carolina.
633. **Phacoemulsification Course and Crystalens Implantation**, Harvey Carter, MD. May 11, 2010, Dallas, Texas.
634. **American Ophthalmological Society Annual Meeting.** May 20-23, 2010, White Sulphur Springs, West Virginia. Paper Presentation: *Removal of Lens Epithelial Cells with Nd: YAG Laser Photolysis System to Prevent Capsula Opacities*.

**CONTRIBUTIONS OF GEORGE O. WARING III, MD  
TO CLINICAL OPHTHALMOLOGY  
2010**

Dr. Waring's contributions are summarized here in two ways: first, a quantitative list and, second, a list of his most significant contributions.

**QUANTITATIVE SUMMARY**

268+ peer reviewed articles

7 National Eye Institute grants as Principal Investigator

5 National Eye Institute grants as participant

55 other research grants

73 book chapters

3 books

262+ additional publications

60+ countries teaching clinical ophthalmology

Over 635 ophthalmic meetings as speaker on six continents

36 named lectures

**SIGNIFICANT CONTRIBUTIONS**

**THE 100 MOST FREQUENTLY CITED ARTICLES IN OPHTHALMOLOGY JOURNALS  
(Citation Classics):**

**Two of Waring's papers** are cited in this compilation of articles from 1975 to 2006. The 100 Most Frequently Cited Articles in Ophthalmology Journals by Ohba, N; Nakao K; Isashiki Y; Ohba A, in: *Arch Ophthalmol*, 2007;125:952-960. 1) Waring GO III, Bourne WM, Edelhauser HF, Kenyon KR. **The corneal endothelium: normal and pathologic structure and function.** *Ophthalmology*. 1982;89(6):531-590, #45, page 30. 2) Fantès FE, Hanna KD, Waring GO III, Poulighen Y, Thompson KP, Savoldelli M. **Wound healing after excimer laser keratomileusis (photorefractive keratectomy) in monkeys.** *Arch Ophthalmol*. 1990;108(5):665-675, #144, page 36.

**MOST SIGNIFICANT PEER-REVIEWED ARTICLES:**

1. Waring GO, Lynn MJ, McDonnell PJ, and The Prospective Evaluation of Radial Keratotomy Study Group: **Results of the Prospective Evaluation of Radial**

**Keratotomy (PERK) Study 10 Years after Surgery.** Arch Ophthalmol 1994; 112: 1298-1308.

This article summarized the long-term results of the PERK study and documented that a hyperopic shift occurs at least 10 years after radial keratotomy. It was one of approximately 38 peer reviewed articles from the PERK study.

2. Sundar Raj N, Geiss MJ, Fantès F, Hanna K, Anderson SC, Thompson KP, Thoft RA, Waring GO: **Healing of excimer laser ablated monkey corneas: an immunohistochemical evaluation.** Arch Ophthalmol 1990; 108:1604-1610.  
This article emanated from Dr. Waring's laboratory for research on excimer laser corneal surgery and documented the details of the corneal epithelial and stromal healing response to excimer laser photorefractive keratectomy.
3. Bogan SJ, Waring GO, Ibrahim O, Drews C, Curtis L: **Classification of normal topography based on computer-assisted videokeratography.** Arch Ophthalmol 1990; 108:945-949.  
This article was the first to classify normal corneal topography on the basis of color coded videokeratography, and has served as a basis for further elaboration and refinement by other authors.
4. Waring GO, Carr JD, Stulting RD, Thompson KP, Wiley W. **Prospective randomized comparison of simultaneous and sequential bilateral laser in situ keratomileusis for the correction of myopia.** Ophthalmology 1999; 106:732-738.  
This study, carried out in the context of a United States Food & Drug Administration investigation, formed the basis for simultaneous bilateral LASIK, which is now standard of care in most locations.
5. Waring GO: **Posterior collagenous layer of the cornea. Ultrastructural classification of abnormal collagenous tissue posterior to Descemet's membrane in 30 cases.** Arch Ophthalmol 1982; 100:122-134.  
This article documented and classified the tissue elaborated posterior to Descemet's membrane by diseased corneal endothelium.
6. Salah T, Waring GO, El-Maghraby A, Moadel K, Grimm S. **Excimer laser in-situ keratomileusis (LASIK) under a corneal flap for myopia of 2 to 20 D.** Am J Ophthalmol 1996; 121:143-155.  
This was one of the first articles published on LASIK, stemming from work done during the transition from cryolathe keratomileusis to automated lamellar keratoplasty to LASIK at the El-Maghraby Eye Hospital in Jeddah, Saudi Arabia, from 1993 to 1995.
7. Waring GO, Malaty A, Grossniklaus H, Kaj H. **Climatic proteoglycan stromal keratopathy: a new corneal degeneration.** Am J Ophthalmol 1995; 120:330-341.  
This original description of climatic stromal corneal degeneration emanated from Dr. Waring's two years as Chairman of the Department of Ophthalmology at El-Maghraby Eye Hospital in Jeddah, Saudi Arabia.
8. Ekins MB, Sgoutas DS, Waring GO, Kanés GJ: **Oval lipid corneal opacities in beagles: VI. Quantitation of excess stromal cholesterol and phospholipid.** Exp Eye Res 1983; 36:279-286.  
This was one of a series six of articles characterizing lipid corneal dystrophy in beagles (and part of a companion series describing lipid corneal dystrophy in huskies) - both original descriptions of these new disorders in dogs. The research was supported by an RO1 Grant from the National Eye Institute.

9. Waring GO, Rodrigues MM, Laibson PR: **The anterior chamber cleavage syndrome: a stepladder classification.** Surv Ophthalmol 1975; 20:3-27.  
This article organized the wide range of anterior segment mesenchymal dysgenesis and is commonly cited as a “classic” in residency teaching programs.
10. Mamalis N, Grossniklaus HE, Waring III GO, Werner L, Brubaker J, Davis, D: **Removal of lens epithelial cells with the laser photolysis system: histopathology, ultrastructure and immunohistory.** J Catar Refract Surg 2010;  
This article reports the original contribution of what happens when a Nd YAG laser is used to remove lens epithelial cells from the lens capsule, by documenting that the proteoglycans of laminin and fibronectin are also removed in addition to the cells.

### **MOST SIGNIFICANT EDITORIAL**

**A Cautionary Tale of Innovation in Refractive Surgery.** Arch Ophthalmol 1999; 117:1069-73. In this editorial, Dr. Waring opines that ophthalmologists (and the public) must critically evaluate claims of the safety and effectiveness of new refractive surgical techniques on the basis of carefully conducted clinical trials in contrast to colloquial results reported by authoritative individuals.

### **MOST SIGNIFICANT BOOK**

**Refractive Keratotomy for Myopia and Astigmatism.** St. Louis, Mosby-Yearbook, 1991; pp 1-1,326; with 1,650 illustrations.

This 1300 page textbook is the authoritative source of information on radial and transverse keratotomy. Its comprehensive scope (including chapters on biomechanics and laser corneal surgery) sets it apart from other books on the subject.

### **MOST SIGNIFICANT NATIONAL INSTITUTES OF HEALTH GRANT**

The **Prospective Evaluation of Radial Keratotomy (PERK) Study**, which Waring conceived and directed spanned 1980 to 1996 and is widely regarded as the most thorough study of radial keratotomy. The 20 million dollar trial involved nine centers, created a rational academic base for the evaluation of refractive surgical procedures, established radial keratotomy as a reasonably safe and effective method of correcting nearsightedness, documented that a hyperopic shift occurs over 10 years after surgery, and produced approximately 38 peer reviewed publications.

### **MOST SIGNIFICANT INTERNATIONAL CONTRIBUTION**

**Chairman of the Department of Ophthalmology at the El Maghraby Eye Hospital.** From 1993 to 1994, Dr. Waring instituted a program of teaching and research that produced seven publications in the peer reviewed American literature. He also helped refine two advanced refractive surgical techniques: excimer laser in-situ keratomileusis (LASIK) and phakic intraocular lens implantation for myopia.

### **MOST SIGNIFICANT U.S. FOOD & DRUG ADMINISTRATION ACTIVITY**

Designer and Principal Investigator of the **first physician-sponsored investigational device exemption (IDE)** and pre-market approval application (PMA) in the ophthalmic branch of the FDA, which was the first formal trial of laser in situ keratomileusis (LASIK) in the United States from 1995 to 1999.

**MOST SIGNIFICANT EDITORIAL ACTIVITY**

**Editor-in-Chief** of the *Journal of Refractive Surgery* from 1989 to 2010. The Waring Medal is awarded annually since 2006 for a best paper.

**MOST SIGNIFICANT FELLOWSHIP**

**Fogarty Senior International Scholars Award** from the National Institutes of Health for research on penetrating keratoplasty and excimer laser corneal surgery at Hotel Dieu Hospital, Paris, France, in 1992.

**MOST SIGNIFICANT LABORATORY INVESTIGATION**

**Effects of excimer laser photorefractive keratectomy on wound healing in corneas of monkeys**, funded by a National Eye Institute RO1 grant, 1988 to 1991, established the histopathologic basis for subepithelial haze after PRK, which resulted from epithelial-stromal interactions and documented the absence of endothelial damage.

**MOST SIGNIFICANT ORGANIZATION MEMBERSHIP**

He was elected a member of the **American Ophthalmological Society** in 1989. His thesis was "Development of a System for Excimer Laser Corneal Surgery." The AOS is the oldest ophthalmology organization in the United States.

**MOST SIGNIFICANT INTERNATIONAL AWARD**

The **Pan Arab Council of Ophthalmology** presented Dr. Waring with a **Gold Medal** on May 12, 1993, "in recognition of his contributions to international ophthalmology" and presented him with a **Second Gold Medal** on May 5, 1997.

**MOST SIGNIFICANT NATIONAL AWARD**

**Lifetime Achievement Awards** from both the American Academy of Ophthalmology (2004) and the International Society of Refractive Surgery (1997).

**MOST SIGNIFICANT NAMED LECTURE**

**Mildred Weisenfeld Lecture** (For Excellence in Ophthalmology) at the Association for Research in Vision and Ophthalmology (ARVO), April 28, 2008.