

## CURRICULUM VITÆ Précis

Dan Zoltan Reinstein, MD, MA(Cantab), DABO, FRCSC, FRCOphth

Professor Reinstein is a GMC registered specialist in ophthalmology in the United Kingdom, equally certified by the American Board of Ophthalmology and the Royal College of Physicians and Surgeons of Canada. He is a sub-specialist in cornea, and a formally trained specialist in refractive surgery. In his clinical practice at the London Vision Clinic in London/UK he combines extensive post-doctorate fellowship sub-specialty training in cornea, external diseases, refractive surgery, ophthalmic ultrasound, and ultrasound bioengineering with his extensive experience as a research scientist. His special interests include the systematization of surgical technique and the assessment and correction of the complications of refractive surgery.

Professor Reinstein is the former Chief Medical Officer of LASIK Vision Corporation/Canada. During his tenure, the company grew to be not only the largest provider of laser vision correction services in the world (performing over 100,000 procedures per year) but the first large refractive surgery multi-clinic system with a full outcomes and safety tracking system. Professor Reinstein was responsible for the training and quality control of a body of 58 staff surgeons operating in 31 clinics in both Canada and the USA under standardized protocols largely defined by his research on the safety and accuracy of LASIK. In addition to these responsibilities, Professor Reinstein has performed over 20000 refractive surgical procedures and regularly teaches his techniques to surgeons internationally.

In scientific research, Professor Reinstein has led the development and use of the 'Artemis': A 3-D Very High Frequency (VHF) digital ultrasound scanning system that for the first time can provide thickness measurements of individual corneal layers as well as ocular dimensions of the anterior segment with one micron precision. He has developed and pioneered the use of this technology with focus on studying the healing responses within the cornea and analysis of the complications of corneal refractive and intraocular lens implant surgery. Because the Artemis VHF ultrasound technology can determine the exact anatomical basis for surface corneal irregularities it provides unique information for the analysis of the optical complications of refractive surgery. The integration of epithelial thickness profiles, stromal surface shape, and residual stromal bed have led to an unprecedented level of measurements are currently being utilized for the experimental customization of corneal laser surgery LASIK and has enabled the repair of many cases in which no other possible solution appeared possible. The Artemis' ability to measure internal ocular dimensions (angle-to-angle and sulcus-to-sulcus) also promises to greatly improve the safety on refractive phakic intra-ocular lenses; custom sizing of phakic IOLs promises to become the standard of care worldwide. He is also working on algorithms for new intra-ocular lens power calculation in cataract surgery that will incorporate measurements of the true anterior-chamber depth to the zonular and sulcus plane and lead to much higher refractive accuracy applied to the new field of femto-cataract surgery.

Professor Reinstein had held appointments as Honorary Consultant Ophthalmologist and Senior Research Associate in the Department of Ophthalmology, Guy's and St Thomas' Hospital, Kings College, London, under the pioneer developer of the excimer refractive surgery laser, Professor John Marshall. He also held the position of Assistant Professor of Clinical Ophthalmology and Research Director of Refractive Surgery at the Weill Medical College of Cornell University in New York. Professor Reinstein was appointed full Professor of Ophthalmology at the University of Paris VI, France, and has an ongoing appointment as Professeur Associé at the Centre Hospitalier National d'Ophthalmologie des Quinze-Vingts, Paris, France's national ophthalmological referral center where he consults with Professor Laurent Laroche. He was appointed Clinical Professor of Ophthalmology at Columbia University, New York in December 2010. He is a Fellow of the American Academy of Ophthalmology, Fellow of the Royal College of Physicians and Surgeons of Canada and Fellow of the Royal College of Ophthalmologists (UK).

Concurrently with his medical career Professor Reinstein has been playing the saxophone for 35 years including two years of study on a performance scholarship at the Berkley College of Music, Boston, USA, and he is continuing to play jazz on a regular basis in the UK but also worldwide on any given occasion.

**CURRICULUM VITÆ,**

Dan Zoltan Reinstein, MD, MA(Cantab), DABO, FRCSC, FRCOphth

**A. GENERAL INFORMATION:**

Birth date: 26 September 1962  
 Birth place: Lima, Peru  
 Nationality: American, British Citizen  
 Marital Status: Married, (wife Dr. med. vet. Ursula Reinstein, Austrian)  
 Children: Julia (born 3/2000), Maxwell (born 5/2002), Oscar (born 7/2004)  
 Languages: English, Spanish, French (fluent trilingual); German, Italian (Basic)

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 138 Harley Street  
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 Web: <http://www.londonvisionclinic.com>

**B. EDUCATIONAL BACKGROUND****DEGREES**

• <b>B.A. (Honors)</b>	Cambridge University, Cambridge, England	1984
• <b>M.A. (Cantab)</b>	Cambridge University, Cambridge, England	1988
• <b>M.B. B.Chir.</b>	Cambridge University, Cambridge, England	1989
• <b>FRCS (C)</b>	Royal College of Physicians and Surgeons of Canada	1999
• <b>DABO</b>	American Board of Ophthalmology	1999
• <b>M.D.</b>	State University of New York, New York, USA	2001
• <b>FRCOphth</b>	Royal College of Ophthalmologists, United Kingdom	2007

**EDUCATION****Undergraduate:**

- St. John's College, Cambridge University, Cambridge, England 1981-1984

**Postgraduate:**

- University College London School of Medicine, Univ. of London, London, England 1985-1989
- Research Fellow in Ophthalmic Epidemiology, Institute of Ophthalmology, University of London, London, England 1990-1991
- Fellow in Ophthalmology, Cornell University Weill Medical College, New York, USA 1991-1994
- Visiting Fellow in Ophthalmology, Cornell University Weill Medical College, New York, USA 1994-1996
- Ophthalmology Residency, Mount Sinai School of Medicine, New York, USA 1993-1996
- Fellow in Cornea, External Diseases and Refractive Surgery, University of British Columbia, Vancouver, Canada 1997-1999

**POST-GRADUATE COURSES**

Success with Presbyopic IOLs, RCO Congress Birmingham	05/11
Effective Counselling of Dissatisfied Patients from a psychiatrist's perspective	11/08
Nidek International NAVEX Seminar	11/07
Refractive Surgery and Beyond, ESCRS	09/07
Users' Meeting PriaGel UVA XLA Evaluation Kit and test protocols, ASCRS	04/07
Users' Group Meeting 'Ocular Response Analyzer and its measurements, ASCRS	04/07
Invue Lens wet-lab, AAO	11/06
Mission impossible with Phacogymnastics, ESCRS	09/06
The Ethical Ophthalmologist: Commerc. Relationships, Compensation and Advertising, AAO onl.	04/06
The Ethical Ophthalmologist: Informed Consent, Dr-Patient Rel.ship and Deleg. Services, AAO	04/06
The Ethical Ophthalmologist: Research, New Technology and Collegiality, AAO online	04/06
Creating Biomechanical Stability in LASIK and Corneal Surgery, ASCRS	03/06
Corneal and anterior segment optical coherence tomography, by David Huang, AAO	10/05
Optical Coherence Tomography of the anterior chamber with the CZM Visante OCT, ESCRS	09/05
Diagnosis & surgical alternatives for correction of keratoconus & ectatic corneal disease, ESCRS	09/05
INTACS Course: Prolate, and Keratoconus, by Bradley Foreger, ASCRS	04/05
Stabilizing the ectatic cornea though the use of INTACS, by McDonald, Colin, a. o, ASCRS	04/05
LASIK Video Grand Rounds: 'Complications...' by Chu Y Ralph, AAO	11/03
Expert Management of LASIK Striae by Mark G Speaker, AAO	11/03
Ophthalmic wavefront sensing and wavefront-guided corneal laser surgery, San Francisco	02/03
Ophthalmic wavefront sensing and wavefront-guided corneal laser surgery, Interlaken	02/02
C-LASIK Instructor Certification	11/99
Intra-corneal ring segment Certification, Instrs: Chayet	11/98
C-LASIK- Hansatome, Instrs.: Breslin, Toronto, Canada	07/98
VISX PRK Certification & VISX PTK Certification Courses, New York City	10/97
C-LASIK - ACS, Instrs.: Slade, Doanne, Villanueva, Monterrey, Mexico	12/96
Modern Incisional Refractive Surgery, Instrs.: Robin, Assil, O'Day, Kelley, AAO 1996	10/96
Radial and Astigmatic Keratotomy, Instrs.: Casebeer, Assil, ISRS Summer Symposium	07/96
Advanced Phacoemulsification, Instrs.: Macool, Schulman, Mount Sinai Med Ctr.	05/96
Greater New York Ophthalmology Clinical Lecture Series, New York	93-94
Radial and Astigmatic Keratotomy, Instrs.: Robin, Lindstrom, ISRS Pre-AAO Ann. Meeting	11/93
Excimer and Other Lasers in Corneal and Refractive Surgery, University of Barcelona, Spain	09/93
Advanced Imaging of the Eye and Orbit, Cornell University Weill Medical College, New York	06/92
Clinical Ultrasonography of Eye and Orbit, Cornell University Weill Medical College, New York	06/92
Training in Identification and Reporting of Child Abuse and Maltreatment, New York	03/92
Radiology in Accident and Emergency, University of London	01/91
Accident and Emergency Course for Senior House Officers, University of London	01/91
Basic Sciences Course for Ophthalmologists, University of Oxford	01/91

**SPECIALIST QUALIFICATIONS AND DIPLOMAS**

• Fellow of the Royal College of Ophthalmologists of the United Kingdom	2007
• Board Certified Specialist of the American Board of Ophthalmology	2001
• Fellow of the Royal College of Physicians and Surgeons of Canada	2000
• Registered Specialist in Ophthalmology: Royal College of Surgeons of Canada	1998
• Experto Internacional, Colegio de Medicos y Cirujanos de Costa Rica	
• Refractive Surgery, Cornea and External Diseases; Fellowship Trained	
• Ophthalmic Ultrasound; Fellowship Trained	
• Ultrasound Bio-engineering; Fellowship Trained	
• C-LASIK - Bausch & Lomb Certified LASIK and Hansatome™ Instructor	
• USA: ECFMG Certified	1990
• USA: FLEX (NY) Certified	1992

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**C. PROFESSIONAL ACTIVITIES, POSITIONS, AND EMPLOYMENT**

<b>Clinical Professor of Ophthalmology</b> Columbia University Medical Centre, New York	2010-present
<b>Medical Director</b> London Vision Clinic, London	08/2002-present
<b>Lead Clinical Refractive Surgery Consultant</b> Carl Zeiss Meditec, Jena, Germany	10/2001-present
<b>Professeur Associé en Ophtalmologie</b> Service V - Prof. Laroche Centre Hospitalier National d'Ophtalmologie des Quinze Vingts, Paris, France	2000-present
<b>Clinical Assistant Professor of Ophthalmology</b> Weill Medical College of Cornell University, New York	1998-2011
<b>Consultant Ophthalmologist (Honorary)</b> Dept. of Ophthalmology, Guy's and St Thomas' Hospital, Kings College, London	05/2003-2006
<b>Visiting Senior Research Fellow</b> John Marshall, PhD, Dept. of Ophthalmology, School of Biomedical & Health Sciences, Guy's Campus, King's College London	02/2004-01/2007
<b>Honorary Senior Research Associate</b> John Marshall, PhD, Dept. of Ophthalmology, GKT School of Biomedical Sciences, St Thomas' Campus, King's College London	01/2002-01/2004
<b>Refractive Surgeon</b> Sunrise Laser Vision Correction, London	02/2002-08/2002
<b>Chief Medical Officer / International Medical Director / Chairman, Medical Standards Board</b> LASIK Vision Corporation, Vancouver, Canada	2000-2001
<b>Professeur Associé en Ophtalmologie (Level I; Class I)</b> Pole Hospitalo-Universitaire d'Ophtalmologie St. Antoine - XV-XX University of Paris VI; Faculty of Medicine St. Antoine, France	09/1999-09/2000
<b>National Medical Director</b> LASIK Vision Corporation, Vancouver, Canada	1999-2000
<b>Director of Research in Refractive Surgery</b> Bio-acoustic Research Facility-Dyson Vision Research Institute Weill Medical College of Cornell University, NY, NY	1995-1999
<b>Fellow in Refractive Surgery, Cornea and External Disease of the Eye</b> Hugo F.S. Sutton, MD FRCS & Simon P. Holland, MB MRCP FRCS FRCS University of British Columbia, Vancouver, Canada	1997-1999

<b>Instructor in Ophthalmology</b> Director of anterior segment ultrasound research - Cornea and Refractive Surgery D. Jackson Coleman, MD, Chairman Bio-acoustic Research Facility-Dyson Vision Research Institute New York Hospital-Cornell University Weill Medical College, New York	07/96-01/98
<b>Visiting Fellow in Ophthalmology</b> D. Jackson Coleman, MD, Chairman, The New York Hospital - Cornell University Weill Medical College, New York	02/94-12/96
<b>Resident in Ophthalmology</b> Robert Fischer, MD, Residency Director Mount Sinai Medical Center, New York	07/93-07/96
<b>Fellow in Ophthalmology</b> D. Jackson Coleman, MD, Chairman, The New York Hospital - Cornell University Weill Medical College, New York	09/91-01/94
<b>A&amp;E Senior House Officer</b> Robin Touquet, FRCS FRCGP RD St. Mary's Hospital Medical School, University of London, England	02/91-08/91
<b>Research Fellow in Ophthalmic Epidemiology</b> Richard P. L. Wormald, MA MSc FRCS, FRCOphth, Lecturer Institute of Ophthalmology, London, England	08/90-01/91
<b>Pre-registration House-jobs</b> Internal/Thoracic Medicine – Whittington University Hospital, London Geriatric Medicine – Whittington University Hospital, London General/Vascular Surgery – Edgware General Hospital, London Orthopedic Surgery Intern – Edgware General Hospital, London	05/90-07/90 02/90-05/90 11/89-02/90 08/89-11/89

### **EXTRAMURAL PROFESSIONAL ACTIVITIES**

Advisory Board Member Optimeyes	2013
HCP Himalayan Cataract Project Medical Advisory Meeting, AAO Orlando	2011-2012
Examiner EBO Exams Paris	2010, 2011, 2012
Carl Zeiss Meditec Advisory Meeting, AAO Chicago	2010
Board Member Cure Blindness	2009
Carl Zeiss Meditec Refractive Laser Scientific Board Meeting, ESCRS	2009
Specialist Advisor to National Institute for Health and Clinical Excellence (NICE)	2009-2013
Board Member European Society of Cataract and Refractive Surgeons	2008
Carl Zeiss Meditec Refractive Laser Scientific Board Meeting, ESCRS	2008
Specialist Advisor to National Institute for Health and Clinical Excellence (NICE), Phakic IOLs	2008
ISRS/AAO International Council Steering Committee Member	2007-2013
Royal College of Ophthalmologists, Pilot Examiner, Assessment Module	2007
Journal of Refractive Surgery, Editorial Board Meeting, AAO	2005-2012
ISRS/AAO International Council Representative for England	2005-2006
Specialist Advisor to National Institute for Health and Clinical Excellence (NICE), LASIK	2004
President, American Society of Ophthalmic Ultrasound	2000-present
Research Committee Member, European Society of Cataract and Refractive Surgery	2001-present
Committee Member, Communications Committee, Int. Society of Refractive Surgery	1999-2001
Scientific Committee Member, Soc. Internationale d'Ultrason Ophthalmologique (SIDUO)	1999-2000

Board Member at Large, American Society of Ophthalmic Ultrasound	1998-2000
FDA Ophthalmic Devices Panel	1999
Chairman, Ophthalmology Section, American Institute of Ultrasound in Medicine	1997-1999
Member of the Council on Sections, American Institute of Ultrasound in Medicine	1997-1999
Vice-president, American Society of Ophthalmic Ultrasound	1996-1998

### **EDITORIAL BOARDS, EDITOR**

International Journal of Keratoconus and Ectatic Corneal Diseases	2012-present
EyeWorld, International Advisory Group	2011-present
Journal of Emmetropia	2011-present
Ultrasonography of the Eye, Prof. Jack Coleman	2008
Journal of Refractive Surgery, Section Editor, Biomechanics	2005-present
Chinese Journal of Optometry & Ophthalmology	2006-present
Core Reviewer, <i>BioMed Central Ophthalmology</i>	2001-present
<i>Revista Española de Oftalmología</i>	2001-present

### **SCIENTIFIC JOURNAL REVIEWER**

<i>Cornea</i>	2000-present
<i>Journal of Refractive Surgery</i>	1997-present
<i>Cochrane Eyes and Vision Group, International Centre for Eye Health</i>	2004
<i>American Journal of Ophthalmology</i>	2004
<i>European Journal of Ophthalmology</i>	2004
<i>Journal of Cataract and Refractive Surgery</i>	1999-present
<i>Optometry and Visual Science</i>	2001
<i>Investigative Ophthalmology and Visual Science</i>	2000-present
<i>Current Eye Research</i>	1997

### **SCIENTIFIC INTERNATIONAL MEETING PANELS**

Moderator ISRS/AO 'Refractive Surgery 2013: Perfecting Vision', AAO New Orleans, USA	2013
Clinical Advisory Panel for Zeiss Users, ESCRS Amsterdam, The Netherlands	2013
Panelist, A new Society in Europe: Opportunities vs Challenges, ACOS Cannes, France	2013
Panelist, What will Cataract Surgery be in 10 years? ACOS Cannes, France	2013
Moderator, Keratorefractive Presbyopia, ASCRS San Francisco, USA	2013
Panelist, Sally Letson Symposium, Ottawa, Canada	2012
Advisory Panelist, CZM Refractive Advisory Panel Meeting, ESCRS Milan, Italy	2012
Panelist, 'Keratorefractive Presbyopia', ASCRS Chicago, USA	2012
Chairman, CZM Lunch Symposium 'Innovations in Refractive Surgery', ESCRS, Paris	2010
Chairperson, Clinical Research Symposia 'High Definition Diagnostics & Imaging', ESCRS, Paris	2010
Panelist, 7 <sup>th</sup> Annual Anti-Ageing Conference, London, UK	2010
Chairperson, 'Refractive Surgery/Refraction 4', WOC, Berlin, Germany	2010
Chairman, Carl Zeiss Meditec Lunch Symposium, WOC, Berlin, Germany	2010
Moderator, Carl Zeiss Meditec Symposium on 'FLEX', ASCRS, Boston, USA	2010
Panelist, 'Keratorefractive Presbyopia, Inlays and Lasers', ASCRS, Boston, USA	2010
Moderator, Correct Diagnosis and Prevention of Complications, ESCRS, Barcelona, Spain	2009
Panelist, 'Keratorefractive: Presbyopia Alternatives', ASCRS San Francisco, USA	2009
Chairperson, 'New diagnostic techniques in refr surgery for preventing complications, WOC	2008
Panelist 'Keratorefractive LASIK Presbyopia and Flaps', ASCRS, Chicago, USA	2008
Faculty, Sub-Specialty Day, Amer. Acad. of Ophthalmology, Ann. Meetg., New Orleans, USA	2007
Chairperson, 'Myopia/Keratorefractive Presbyopia', ESCRS, Stockholm	2007

Chairperson, Clin. Res. Symp: 'High res. ant. segmt. imagg. and biometry', ESCRS, Stockholm	2007
Panelist 'Keratorefractive: Epi-LASIK, Lasek, PRK", ASCRS Annual Meeting, San Diego	2007
Chairman, Carl Zeiss Innovation Symposium: Refractive Highlights, ASCRS, San Diego	2007
Chairman, Carl Zeiss Mel 80 International User Symposium, Singapore	2007
Presidente de la Mesa, Videocomplicaciones, Alicante Refractiva	2007
Panelist, Sub-Specialty Day, Amer. Academy of Ophthalmology, Annual Meeting, Las Vegas	2006
Panelist, ISRS/AAO Session 'Expanding frontier of refractive surgery', ESCRS, London	2006
Chairman, Carl Zeiss Innovation Symposia 'Refractive Highlights', ESCRS, London	2006
Chairperson, 'Phakic IOLs I', European Society of Cataract and Refractive Surgery, London	2006
Chairperson, 'What needs to be measured in refractive surgery?', ESCRS, London	2006
Panelist, American Society of Cataract and Refractive Surgery, Annual Meeting, San Francisco	2006
Faculty, Sub-Specialty Day, Amer. Academy of Ophthalmology, Ann. Meetg., Chicago, USA	2005
Moderator, 'Dynamic imaging of the anterior segment of the eye', ESCRS, Lisbon, Portugal	2005
Moderator, 'LASIK, phakic IOL and presbyopic surgery safety', ESCRS, Lisbon, Portugal	2005
Moderator, 'Refractive Wavefront', ASCRS, Annual Meeting, Washington, DC, USA	2005
Chairperson, Carl Zeiss Meditec Wavefront Symposium, ASCRS, Washington, DC, USA	2005
Moderator, Alicante Refractiva, Alicante, Spain	2005
Moderator, European Society of Cataract and Refractive Surgery, Rome, Italy	2005
Moderator, Carl Zeiss Meditec Symposium, ESCRS, Rome, Italy	2005
Faculty, Sub-Specialty Day, Amer. Academy of Ophthalmology, Ann. Meetg., New Orleans, USA	2004
Chairperson, Symposium 'Imaging Techniques Anterior Segment Eye', ESCRS, Paris, France	2004
Chairperson, Carl Zeiss Meditec Wavefront Symposium, ESCRS, Paris, France	2004
Moderator, 'Keratorefractive Surgery outcomes: hyperopia/presbyopia', ESCRS, Paris, France	2004
Chairperson, Carl Zeiss Wavefront Symposium, ASCRS, Annual Meeting, San Diego, USA	2004
Moderator, European Society of Cataract and Refractive Surgery, Munich, Germany	2003
Moderator, 'Refractive Wavefront', ASCRS, Annual Meeting, San Francisco, USA	2003
Panelist, Alicante Refractiva, Annual Meeting, Alicante, Spain	2003
Panelist, European Society of Cataract and Refractive Surgery, Winter Meeting, Rome, Italy	2003
Session Moderator (x2), International Society of Refractive Surgery, Orlando, USA	2002
Faculty, Sub-Specialty Day, American Academy of Ophthalmology, Ann. Meeting, Orlando, USA	2002
Panelist, European Society of Cataract and Refractive Surgery, Annual Meeting, Nice, France	2002
Panelist, American Society of Cataract and Refractive Surgery, Annual Meeting, Philadelphia	2002
Panelist, Int. Wavefront Congress, Interlaken, Switzerland	2002
Faculty, Sub-Specialty Day, American Academy of Ophthalmology, Ann. Meeting, New Orleans	2001
Session Panelist, World Refractive Surgery Symposium, ISRS, Orlando, FL, USA	2001
Session Panelist, Centro Mexicano de Cirugia Refractiva & ISRS, Ann. Meeting, Cancun, Mexico	2001
Session Panelist, American Soc. Cataract and Refractive Surgery Annual Meeting, San Diego	2001
American Institute of Ultrasound in Medicine, Scientific Program	2001
Review Committee Member, Archivos de la Sociedad Española de Oftalmología	2001
American Institute of Ultrasound in Medicine, Scientific Program	2000
Session Panelist, American Soc. Cataract and Refractive Surgery, Annual Meeting, Boston, USA	2000
American Institute of Ultrasound in Medicine, Scientific Program	1999
Session Moderator, LASIK Safety Issues, Assoc. Research in Vision and Ophth., Ann. Meeting	1999
American Institute of Ultrasound in Medicine, Scientific Program	1998
Session Panelist, International Society of Refractive Surgery Symposium, Minneapolis, USA	1997
American Institute of Ultrasound in Medicine, Scientific Program	1997
American Institute of Ultrasound in Medicine, Scientific Program	1996
American Institute of Ultrasound in Medicine, Scientific Program	1995
American Institute of Ultrasound in Medicine, Scientific Program	1994

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#### **D. MEDICAL LICENSURES**

- Georgia State, USA (#048708) – [inactive] 01/2000
- British Columbia, Canada (#525822) 11/1999-11/2001
- Washington State, USA (#38080) 11/1999-present
- New Jersey, USA (#64947) – [inactive] 10/1996

- New York, USA (#204103) 08/1996-present
- United Kingdom (GMC #3339466) 08/1990-present

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### **E. PROFESSIONAL MEMBERSHIPS**

Cambridge Graduates' Medical Society	2008-present
Royal Society of Medicine	2003-present
European Society of Cataract and Refractive Surgery	2002-present
British Medical Association	2002-present
American Academy of Ophthalmology	2001-present
International Society of Refractive Surgery	2001-present
American Society of Cataract and Refractive Surgery	2000-present
Pan-American Association of Ophthalmology	1997-present
Royal College of Physicians and Surgeons of Canada	1997-present
Mount Sinai School of Medicine Alumni Association	1997-present
General Medical Council	1996-present
Association for Research in Vision and Ophthalmology	1996-present
American Society of Ophthalmic Ultrasound	1996-present
General Medical Council	1990-1991, 1996-present
American Institute of Ultrasound in Medicine	1998-2002

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### **F. HONORS, AWARDS AND PRIZES**

- EyeWorld News Service covering the ESCRS Amsterdam, Front Cover 2013
- Video competition ACOS 2013, Cannes, Winner: Spot PTK for keratin plugging in Radial Keratotomy incisions; Producer: Dan Reinstein 2013
- UK's Best Workplaces (small category), 7<sup>th</sup> Place 2013
- Best Paper of Session Award, ASCRS, San Francisco (SMILE Biomechanics Model) 2013
- Kritzing Memorial Award, ISRS Annual Meeting, AAO Chicago 2012
- UK's Best Workplaces (small category), 2<sup>nd</sup> Place 2012
- Best Paper of Session Award, ASCRS, San Diego (IOL Vault Height) 2011
- Best Paper of Session Award, ASCRS, Boston (Stereo Acuity in Laser Blended Vision) 2010
- Liveryman of the Worshipful Company of Spectacle Makers 2009-present
- Video competition Videocatarattarefrattiva 2009, Milan, Winner: Presbyopic micro-monovision LASIK outcomes in myopia, hyperopia and emmetropia; Producer: Dan Reinstein 2009
- ASCRS 2009 Film Festival 'New Techniques', Winner: Presbyopic LASIK by Micro-monovision Using Increased Depth of Field from Nonlinear Aspheric Ablation Profiles; Producer: Dan Reinstein 2009
- Gusi Peace Prize, Philippine Committee, Recipient for 2008 2008
- Best Paper of Session Award, AAO, Atlanta (Refractive) 2008
- Best Paper of Session Award, ASCRS, Chicago (Refractive) 2008
- Waring Medal, New York 2007
- Best Paper of Session Award, ASCRS, San Diego (Refractive) 2007
- Best Paper of Session Award, ASCRS, Washington (Refractive: Phakic IOLs) 2005
- Achievement Award, American Academy of Ophthalmology, Anaheim 2003
- Best Paper of Session Award, ISRS, Orlando (Centration of Hyperopic LASIK) 2001
- Best Paper of Session Award, ASCRS, Boston (Flap Buttonholes in LASIK) 2001
- Best Paper of Session Award, ASCRS, Boston (Hansatome Flap Consistency by 3D VHFU) 2000
- Castroviejo Cornea Society 1998 Fellows Award 1998
- Best Paper of Session Award, ASCRS, San Diego (Low contrast acuity in Hyperopic LASIK) 1998
- Best Paper of Session Award, ASCRS, San Diego (Anatomy of the flap in LASIK by HFU) 1998
- ISRS/Alcon Laboratories, Travel Fellowship Award 1997
- Paul Keyser International Scholar, Pan-American Assoc. Ophthalmology 1997
- National Eye Institute/ARVO Fellowship Grant 1994



- Allergan/Fisons Grant Award for Young Investigators 1993
- Allen Goldsmith Prize in Ophthalmology, University College London 1989
- Duke-Elder National Prize in Ophthalmology (Commended), UK 1989
- Rolleston Award for Clinical Elective, University of Cambridge 1988
- Roussel Essay Award for Clinical Elective, Roussel Laboratories 1988
- B.A. Honors degree, University of Cambridge 1984

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## G. PATENTS

1. **"Method of performing refractive eye surgery centered along the visual axis of the human eye"**  
*Dan Z. Reinstein, Hartmut Vogelsang, Daniel R. Neal*  
 London, GB.1.20100114076.  
 05.06.2010, Patent pending.
2. **"Method of performing refractive eye surgery centered along the visual axis of the human eye"**  
*Dan Z. Reinstein, Hartmut Vogelsang, Daniel R. Neal*  
 Internal Reference: P17365USPRO.  
 U.S. Patent Application No. 20100114076.  
 11.05.2008, Patent pending.
3. **"Verfahren und Vorrichtung zum Ausbilden von Schnittflächen in einem transparenten Material"**  
*Hartmut Vogelsang, Dan Z. Reinstein, Matthias Wottke, Andre Narr, Wilfried Bißmann*  
 German Patent Application No. 10 2008 017 772.5, German Patent and Trademark Office.  
 04.04.2008, Patent pending.
4. **"Method for controlling a device for treating the human eye"**  
*Manfred Dick, Holger Mäusezahl, Dan Z. Reinstein, Eckhard Schröder, Hartmut Vogelsang*  
 United States patent number 7,836,892, 2010. (November 23, 2010)
5. **"Head Support"**  
*Dan Z. Reinstein, Paul W. Taylor, Scott H. Phillips, Mark L. Foster, Adrian A. Van Wijk*  
 Canadian Patent Application CA 2299483  
 Canada, Application No. 2,295,431, 2000-01-06  
 United States, Canadian and PCT file # 82300-3/-5, 2002  
 U.S. Patent Application No. 20020169460.
6. **"Method and Apparatus for Ultrasound Corneal Scanning"**  
*D. Jackson Coleman, Dan Z. Reinstein, Ronald H. Silverman*  
 Canadian Patent Application CA 2385889  
 PCT Filing Number: PCT/US2000/027009  
 International Publication No: WO2001/022886, 2002-03-18.  
 USA, Application No. 09/408,256, 1999-09-29.  
 United States patent number 6,315,727, 2001. (November 13, 2001)
7. **"Ophthalmological Ultrasonography Scanning Apparatus"**  
*Dan Z. Reinstein, Scott H. Phillips, Paul W. Taylor, Mark L. Foster*  
 Canadian Patent Application CA 2395203.  
 PCT Filing Number: PCT/CA2001/000008  
 International Publication No: WO2001/049181, 2002-07-02.  
 Canada, Application No. 2,295,431, 2000-01-06.  
 United States patent number 6,887,203, 2002. (April 09, 2002)

8. **"Methods of Ocular Biometry"**  
Dan Z. Reinstein  
Canadian Patent Application CA 2270273  
US Patent Application No 60/128,568, 1999-04-09.  
US Patent Application No 09/545,035, 2002.
9. **"Ophthalmic Apparatus"**  
Scott H. Phillips, Dan Z. Reinstein, Mark L. Foster, Adrian A. Van Wijk, Paul W. Taylor  
Canadian Patent Application CA 2295431
10. **"Ultrasonic scanning of the eye using a stationary transducer"**  
George Simoni, D. Jackson Coleman, Dan Z. Reinstein, David J. Najafi, Ronald H. Silverman  
Canadian Patent Application CA 2294363  
PCT Filing Number: PCT/US1998/010716, 1999-12-16  
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11. **"System and method for producing and maintaining parallel and vertical fixation of visual axis"**  
Dan Z. Reinstein, Ronald H. Silverman, D. Jackson Coleman  
United States patent number 5,369,454, 1994. (November 29, 1994)
12. **"System for ultrasonically determining corneal layer thickness and shape"**  
Dan Z. Reinstein, Ronald H. Silverman, D. Jackson Coleman, Frederic L. Lizzi  
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## **H. RESEARCH SUPPORT**

1. **RO1/NIH 'Early Detection of Keratoconus'**, Department of Ophthalmology, Columbia University Medical Center, 9/30/09 to 8/31/14, Principal Investigator: Ronald H. Silverman, Co-Investigator: Dan Z. Reinstein, Annual sub-award: USD 45,000
2. **SBIR/NIH 'Three-Dimensional Ocular Imaging Using Ultrasound'**, Department of Ophthalmology, Cornell University Weill Medical College, USD 5,100, April 2004 to March 2006, Principal Investigator: David Kynor (Creare, Inc.), Co-Investigator: Dan Z. Reinstein
3. **Research to Prevent Blindness**, Department of Ophthalmology, Cornell University Weill Medical College, Unrestricted, 1993-1997, Principal Investigator: Dan Z. Reinstein
4. **Dyson Research Fellowship**, Department of Ophthalmology, Cornell University Weill Medical College, USD 20,000, 1992 & 1993, Principal Investigator: Dan Z. Reinstein

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## **I. INTERESTS, SKILLS AND HOBBIES**

**Music:** Saxophones: Touring and performances at international jazz festivals in Europe, the US and Caribbean (1985 - 1993) with:

- **"Vital Information"** with: Steve Smith (Journey), Tom Coster (Santana), Kai Eckhardt (John McLaughlin, Billy Cobham), Werner Gierig (Najee, Angela Bofill, Will Downing, Regina Carter)
- **"Night Dive"** with: Tom Barney (Miles Davis, Dave Sanborn), Werner Gierig, Morris Pleasure (George Duke, Earth Wind & Fire).
- Monthly concerts at London's 606 Club, Chelsea, "Dan Reinstein Quintet" 2001- present

**Magic:** A lifelong interest; specializing in close-up techniques.

**Computing:** Advanced user of Macintosh O/S, MS-DOS, Windows, UNIX and VMS (Vax, DEC) operating systems. Well versed in medical statistical analysis, Database Programming (Excel, FileMakerPro), Image Processing Software (Photoshop, NIH-Image), Basic HTML programming, Computer Graphics, Text Processors, Desktop Publishing.

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*Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe, Richard C. Rothman*
2. **Lenticule thickness readout for small incision lenticule extraction (SMILE) compared to Artemis three-dimensional very high-frequency digital ultrasound stromal measurements**  
Journal of Refractive Surgery. 2014 [In Press]  
*Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe*
3. **Trans-epithelial phototherapeutic keratectomy protocol for treating irregular astigmatism based population on epithelial thickness measurements by Artemis very high-frequency digital ultrasound**  
Journal of Refractive Surgery. 2014 [In Press]  
*Dan Z. Reinstein, Timothy J. Archer, Zach Dickeson, Marine Gobbe*
4. **Measurement of the crystalline lens radius with Artemis very high frequency ultrasound biomicroscopy for Implantable Collamer Lens sizing**  
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5. **Artemis very high-frequency digital ultrasound guided femtosecond laser recut after flap complication**  
Digital Journal of Ophthalmology. 2014 [In Press] [video online]  
*Dan Z. Reinstein, Zachary Dickeson, Timothy J. Archer, Marine Gobbe*
6. **Comparison of biomechanical response parameters using dynamic bidirectional applanation analysis between myopic and hyperopic eyes**  
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*Cynthia J. Roberts, Dan Z. Reinstein, Timothy J. Archer, Ashraf M. Mahmoud, Marine Gobbe, Linden Lee*
7. **Epithelial remodelling as basis for machine-based identification of keratoconus**  
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*Ronald H. Silverman, Raksha Urs, Arindam RoyChoudhury, Timothy J. Archer, Marine Gobbe, Dan Z. Reinstein*
8. **Reproducibility of manifest refraction between surgeons and optometrists in a clinical refractive surgery practice**  
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9. **Accuracy and reproducibility of cap thickness in small incision lenticule extraction**  
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*Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe*
10. **Femtosecond laser assisted keyhole Endokeratophakia: Correction of hyperopia by implantation of an allogeneic lenticule obtained by small incision lenticule extraction from a myopic donor**  
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13. **Mathematical model to compare the relative tensile strength of the cornea after PRK, LASIK and small incision lenticule extraction**  
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Journal of Refractive Surgery. 2012 Sep;28(9):657-663  
**Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe**
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#### **CONTRIBUTIONS TO PUBLICATIONS IN OPHTHALMIC PRESS**

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**K. INVITED LECTURESHIPS, COURSES, LIVE SURGERY, VIDEOPRESENTATIONS**

- 'Treatment of cases by SMILE not considered candidates for LASIK and PRK'  
**Invited Speaker**, DGII Deutschsprachige Gesellschaft fuer Intraokularlinsen-Implantation, interventionelle und refractive Chirurgie  
 March 7-8, 2014, Bochum, Germany
- 'Correction of corneal complications using topography and sub-surface topographically driven data'  
**Invited Speaker**, DGII Deutschsprachige Gesellschaft fuer Intraokularlinsen-Implantation, interventionelle und refractive Chirurgie  
 March 7-8, 2014, Bochum, Germany
- 'Current and Future Refractive Surgery Frontiers: What is currently available outside US FDA jurisdiction and what may never be possible within FDA jurisdiction'  
**Invited Speaker**, Basic Science Course in Ophthalmology, Columbia University New York  
 January 25, 2014, New York, USA
- 'Smile: Scientific rationale for why ReLEx is the future of corneal refractive surgery'  
**Skype Presentation**, Bangalore Meeting India  
 11 January 2014, Bangalore, India
- 'Presbyond Laser Blended Vision: The highest standard by far in presbyopic correction'  
**Skype Presentation**, Bangalore Meeting India  
 11 January 2014, Bangalore, India
- 'A step-by-step primer to starting lasik in 2013'  
**Course Instructor**, American Academy of Ophthalmology  
 15-19 November 2013, New Orleans, United States
- 'Mathematical Model to Compare the Relative Tensile Strength of the Cornea after PRK, LASIK and Small Incision Lenticule Extraction (SMILE)  
**Invited Speaker**, The Journal of Refractive Surgery, American Academy of Ophthalmology  
 15-19 November 2013, New Orleans, United States
- 'Epithelial Measurement and Healing'  
**Keynote Lecture**, International Society of Refractive Surgery / American Academy of Ophthalmology  
 15-19 November 2013, New Orleans, United States
- 'Corneal surgery assisted by femtosecond laser'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
 5-9 October 2013, Amsterdam, The Netherlands
- 'Laser Refractive Correction for presbyopia'  
**Invited Speaker**, ISRS Symposium, European Society of Cataract and Refractive Surgery  
 5-9 October 2013, Amsterdam, The Netherlands
- 'Treatment strategy for the custom ablation of visually disturbing irregular astigmatism after refractive surgery and in keratoconus'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
 5-9 October 2013, Amsterdam, The Netherlands
- 'Complications after Lasik or PRK: achieving excellent outcomes in therapeutic corneal refractive surgery'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
 5-9 October 2013, Amsterdam, The Netherlands
- 'Small incision lenticule extraction for myopia and astigmatism'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
 5-9 October 2013, Amsterdam, The Netherlands

- 'Aberration induction in surgery in presbyopia: benefits and detriments to visual function in cataract and corneal refractive surgery'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
5-9 October 2013, Amsterdam, The Netherlands
- 'PRESBYOND @ Laser Blended Vision with new Excimer Technology'  
**Invited Speaker**, Carl Zeiss Meditec Lunch Symposium  
European Society of Cataract and Refractive Surgery  
5-9 October 2013, Amsterdam, The Netherlands
- 'Very high frequency ultrasound for the imaging of the cornea'  
**Invited Speaker**, European Society of Cataract and Refractive Surgery  
5-9 October 2013, Amsterdam, The Netherlands
- 'Optimizing Ocular Aberrations in the Treatment of Presbyopia'  
**Invited Speaker**, Presbyopia  
4 October 2013, Amsterdam, The Netherlands
- 'Outcomes of Corneal Presbyopia using Algorithms'  
**Invited Speaker**, Presbyopia  
4 October 2013, Amsterdam, The Netherlands
- 'What's new in Intra-lamellar keratorefractive surgery'  
**Invited Speaker**, UKISCRS Annual Meeting  
5-6 September 2013, Manchester, United Kingdom
- 'ReLEx Smile: The advantages over Lasik or PRK by leaving the anterior cornea intact'  
**Invited Speaker**, Meet the Experts Carl Zeiss Meditec Session  
APACRS Asia-Pacific Association of Cataract & Refractive Surgeons  
11-12 July 2013, Singapore, Indonesia
- 'Presbyond Laser Blended Vision: The highest standard in presbyopic correction'  
**Invited Speaker**, Meet the Experts Carl Zeiss Meditec Session  
APACRS Asia-Pacific Association of Cataract & Refractive Surgeons  
11-12 July 2013, Singapore, Indonesia
- 'ReLEx Smile and Presbyond Laser Blended Vision – Refinements on Corneal and Refractive Surgery'  
**Invited Speaker**, Carl Zeiss Meditec Session Innovation Symposium  
APACRS Asia-Pacific Association of Cataract & Refractive Surgeons  
11-12 July 2013, Singapore, Indonesia
- 'The Search for the Holy Grail in Presbyopia Correction'  
**Invited Speaker, Keynote Speech**, ACOS American-European Congress of Ophthalmic Surgery  
28-30 June 2013, Cannes, France
- 'When structure meets function: what have we learned these 20 years'  
**Invited Speaker**, COS Centre d'Ophtalmologie Specialisee  
28 June 2013, Lausanne, Switzerland
- 'Very high-frequency digital ultrasound'  
**Invited Speaker**, Imaging Symposium, BSRS British Society of Refractive Surgery  
29-30 June 2013, Belfry, United Kingdom
- 'Lasers then and now: MEL 80'  
**Invited Speaker**, Imaging Symposium, BSRS British Society of Refractive Surgery  
29-30 June 2013, Belfry, United Kingdom
- 'Artemis keratoconus screening based on epithelial thickness profiles and patterns'  
**Invited Speaker**, Refr@ctive Online & SICSSO  
27-28 June 2013, Siena, Italy

- 'Artemis-guided transepithelial PTK'  
**Invited Speaker**, Refr@ctive Online & SICSSO  
27-28 June 2013, Siena, Italy
- 'Impact of the epithelium in irregular astigmatism'  
**Invited Speaker**, Refr@ctive Online & SICSSO  
27-28 June 2013, Siena, Italy
- 'Disadvantages of ReLEx smile – are there any?'  
**Invited Speaker**, Carl Zeiss Meditec Users Meeting  
May 31 - 2 June 2013, Mallorca, Spain
- 'PRESBYOND Laser Blended Vision: Scientific concept and proof'  
**Invited Speaker**, Carl Zeiss Meditec Users Meeting, Symposium  
May 31 - 2 June 2013, Mallorca, Spain
- 'The facts and physics of why only the VisuMax can cut with same or better-than excimer laser precision in cornea'  
**Invited Speaker**, Carl Zeiss Meditec Users Meeting, Symposium  
May 31 - 2 June 2013, Mallorca, Spain
- 'ReLEx smile: The advantages over LASIK or PRK by leaving the anterior cornea intact'  
**Invited Speaker**, Carl Zeiss Meditec Users Meeting, Symposium  
May 31 - 2 June 2013, Mallorca, Spain
- 'Enhancement options after primary ReLEx smile'  
**Invited Speaker**, Carl Zeiss Meditec Users Meeting, Symposium  
May 31 - 2 June 2013, Mallorca, Spain
- 'PRESBYOND Laser Blended Vision – Scientific concept, outcomes and comparison to other presbyopic surgical techniques' – 'Presbyond, le nouveau module de traitement de la presbytie en chirurgie corneenne'  
**Invited Speaker**, SFO – Societe Francaise d'Ophthalmologie  
May 11-12, 2013, Paris, France
- 'Laser Blended Vision'  
**Invited Speaker**, Paris Refractive Surgery Teaching Day at Ile-de-France and Centre Hospitalier National d'Ophthalmologie (CHNO) des Quinze-Vingts  
April 6, 2013, Paris, France
- 'Performing the perfect LASIK procedure'  
**Invited Speaker**, Paris Refractive Surgery Teaching Day at Ile-de-France and Centre Hospitalier National d'Ophthalmologie (CHNO) des Quinze-Vingts  
April 6, 2013, Paris, France
- 'SMILE'  
**Invited Speaker**, Trends of Ophthalmology Meeting 2013  
February 7, 2013, London, United Kingdom
- 'Beyond the 2012 state of the art in refractive surgery'  
**Invited Speaker**, Basic Science Course Columbia University  
January 26, 2013, New York, USA
- 'The perfect LASIK Procedure & Common Complication Management'  
**Invited Speaker**, Basic Science Course Columbia University  
January 26, 2013, New York, USA

- 'The next refinement in presbyopic corneal surgery with Laser Blended Vision: Wavefront-guided PRESBYOND®'  
**Invited Speaker**, Carl Zeiss Meditec Refractive Symposium, American Academy of Ophthalmology  
November 9-13, 2012, Chicago, USA
- 'Blended Vision: Concept and Experimental Evidence'  
**Course Faculty**, American Academy of Ophthalmology  
November 9-13, 2012, Chicago, USA
- 'Limitations of topography or wavefront guided therapeutic ablations require epithelial profile and sub-surface stromal shape'  
**Course Faculty**, American Academy of Ophthalmology  
November 9-13, 2012, Chicago, USA
- 'The Routine LASIK Procedure'  
**Course Instructor**, American Academy of Ophthalmology  
November 9-13, 2012, Chicago, USA
- 'Point: Monovision is the Way for Laser Vision Correction'  
**Invited Speaker**, Refractive Subspecialty Day, American Academy of Ophthalmology  
November 9-13, 2012, Chicago, USA
- 'The Physics of Laser Eye Surgery'  
**Invited Speaker**, Physics Forum Latymer Upper School  
September 28, 2012, London, United Kingdom
- ReLEx SMILE: Benefits of keyhole femtosecond corneal refractive surgery over LASIK'  
**Invited Speaker**, UKISCRS  
September 27-28, 2012, Brighton, United Kingdom
- 'Therapeutic refractive surgery'  
**Invited Speaker**, Sally Letson Symposium  
September 20-22, 2012, Ottawa, Canada
- 'All femtosecond corneal refractive surgery'  
**Invited Speaker**, Sally Letson Symposium  
September 20-22, 2012, Ottawa, Canada
- 'Unique applications of high resolution 3D epithelial and stromal mapping in corneal refractive surgery'  
**Invited Speaker**, Sally Letson Symposium  
September 20-22, 2012, Ottawa, Canada
- 'Excimer Laser Presby Cornea: Zeiss Meditec – Blended Vision'  
**Invited Speaker**, Sally Letson Symposium  
September 20-22, 2012, Ottawa, Canada
- 'Understanding how epithelial profile masks the sub-surface stromal shape and limits the effectiveness of topography and wavefront guided therapeutic surgery'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'Limitations of topography or wavefront guided therapeutic ablations require epithelial profile and sub-surface stromal shape'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'Scientific rationale for why femtorefractive keratomileusis is the future of corneal refractive surgery'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

- 'Limitations of topography or wavefront guided therapeutic ablations require epithelial profile and sub-surface stromal shape'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'Very High Frequency Ultrasound for the imaging of the cornea'  
**Invited Speaker**, Workshop on Visual Optics, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'ReLEx smile: The final frontier in perfecting corneal refractive surgery for patients and surgeons alike'  
**Invited Speaker**, CZM Lunch Symposium, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'The next refinement in presbyopic corneal surgery with Laser Blended Vision: Wavefront-guided PRESBYOND'  
**Invited Speaker**, CZM Lunch Symposium, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'Clinical outcomes and visual quality for LASIK integrating spherical aberration control for correction in myopic, hyperopic and emmetropic presbyopia'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'The next refinement in presbyopic corneal surgery with Laser Blended Vision: Wavefront-guided PRESBYOND'  
**Invited Speaker**, European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy
- 'PRESBYOND Laser Blended Vision: Concept and Experimental Evidence'  
**Invited Speaker**, ISOP Presbyopia International 2012  
September 7, 2012, Milan, Italy
- 'Keynote – Lasik for Presbyopia by Spherical Modulation'  
**Invited Speaker**, Femto & Presby Ophthalmic Solutions in Cataract and Refractive Surgery Symposium (OSCARS)  
June 30 – July 1, 2012, Cannes, France
- 'Laser Blended Vision: The highest standard in presbyopic correction'  
**Invited Speaker**, BOW Balkan Ophthalmic Wetlab Course 2012  
June 29-30, 2012, Sofia, Bulgaria
- 'Femtosecond Laser Refractive Surgery'  
**Invited Speaker**, BOW Balkan Ophthalmic Wetlab Course 2012  
June 29-30 2012, Sofia, Bulgaria
- **Live Surgery SMILE**, BOW Balkan Ophthalmic Wetlab Course 2012  
June 29-30, 2012, Sofia, Bulgaria
- 'Femtosecond Laser Refractive Surgery'  
**Invited Speaker**, British Society of Refractive Surgery Annual Congress  
June 23-24, 2012, The Belfry, West Midlands, United Kingdom
- 'Corneal refractive surgery'  
**Invited Speaker**, University College Hospital Ophthalmic Study Day  
June 22, 2012, London, United Kingdom
- 'Corneal Presbyopia Surgery: Laser Blended Vision'  
**Invited Speaker**, XIIth State of the Art Refractive and Cataract Surgery Symposium  
June 15, 2012, Hull, United Kingdom

- 'Keyhole LASIK – Future of Laser Eye Surgery?'  
**Invited Speaker**, XIIth State of the Art Refractive and Cataract Surgery Symposium  
June 15, 2012, Hull, United Kingdom
- 'LBV: The highest standard in presbyopic correction'  
**Invited Speaker**, International Refractive Symposium Carl Zeiss  
June 1-2, 2012, Limassol, Cyprus, Greece
- 'My practise: Is the UK ready for ReLEx?'  
**Invited Speaker**, International Refractive Symposium Carl Zeiss  
June 1-2, 2012, Limassol, Cyprus, Greece
- 'ReLEx: Corneal Sensitivity and Biomechanical influence on spherical aberration induction'  
**Invited Speaker**, International Refractive Symposium Carl Zeiss  
June 1-2, 2012, Limassol, Cyprus, Greece
- 'The future of refractive surgery'  
**Invited Speaker**, British Contact Lens Association  
May 24-27, 2012, Birmingham, United Kingdom
- 'Corneal Tomography by VHF digital Ultrasound: reaching the parts that other technologies cannot reach'  
**Invited Speaker**, Royal College of Ophthalmologists Annual Congress  
May 15-17, 2012, Liverpool, United Kingdom
- 'Laser Blended Vision versus multifocal iol implantation in the treatment of presbyopia'  
**Invited Speaker**, Scientific Symposium "BOLC 15 years", Belgian Ocular Laser Center  
May 5, 2012, Ghent, Belgium
- 'Laser Blended Vision: rationally the best possible option for the correction of presbyopia with emmetropia, myopia and hyperopia'  
**Invited Speaker**, Carl Zeiss Meditec Meeting 'Presbytie: les solutions refractives Carl Zeiss'  
April 26, 2012, Paris, France
- 'Aberration Induction Surgery in Presbyopia: Benefits and Deprivments to Visual Function in Cataract and Corneal Refractive Surgery'  
**Course Instructor**, American Society of Cataract and Refractive Surgery  
April 21-24, 2012, Chicago, USA
- 'Epithelial Mapping with the RTVue SD-OCT and future clinical applications in corneal refractive surgery'  
**Invited Speaker**, Optovue Symposium, American Society of Cataract and Refractive Surgery  
April 21-24, 2012, Chicago, USA
- 'After Dinner Speech'  
**Invited Speaker**, St John's College Medical Society Dinner  
March 9, 2012, Cambridge, United Kingdom
- 'The Road less travelled... a Johnian medic's unconventional journey to academic clinical practice, huge job satisfaction and a happy life'  
**Invited Speaker**, Careers Talk, St John's College, Medical Society  
March 9, 2012, Cambridge, United Kingdom
- 'Scientific rationale why control of spherical aberration is the optimal solution for presbyopic corrections'  
**Invited Speaker Web Cast Lecture**, AIOC All India Ophthalmological Conference  
February 3, 2012, Cochin, Kerala, India
- 'Corneal Refractive Surgery Technology and Management'  
**Invited Speaker**, Basic Science Course of Ophthalmology 2012, Columbia University New York  
January 28, 2012, New York, USA



- 'Laser Blended Vision'  
**Live Surgery**, Carl Zeiss Meditec Live Surgery Event 'ReLEx smile'  
December 1-4, 2011, Mexico City, Mexico
- 'ReLEx SMILE'  
**Live Surgery**, Carl Zeiss Meditec Live Surgery Event 'ReLEx smile'  
December 1-4, 2011, Mexico City, Mexico
- 'Laser Blended Vision: Inducing 'good' aberrations for correcting presbyopia'  
**Invited Speaker**, Live Surgery Event 'ReLEx smile'  
December 1-4, 2011, Mexico City, Mexico
- 'Scientific rationale for why ReLEx SMILE is the corneal refractive procedure of the future'  
**Invited Speaker**, Live Surgery Event 'ReLEx smile'  
December 1-4, 2011, Mexico City, Mexico
- 'Epithelium is the Clue to Finding the Bulge'  
**Invited Speaker**, American Academy of Ophthalmology Subspecialty Day  
October 20-25, 2011, Orlando, United States of America
- 'Laser Blended Vision: Using the Most Natural Optical Language of the Visual System for Treating Presbyopia'  
**Invited Speaker**, American Academy of Ophthalmology, Carl Zeiss Meditec Booth Presentation  
October 20-25, 2011, Orlando, United States of America
- 'Clinical Evaluation of the Effect of Adding Sulcus Diameter to ICL Sizing on the Predictability of Postop Vault Height'  
**Invited Speaker**, American Academy of Ophthalmology Subspecialty Day  
October 20-25, 2011, Orlando, United States of America
- 'Mel80 Laser Blended Vision'  
**Course Faculty**, American Academy of Ophthalmology  
October 20-25, 2011, Orlando, United States of America
- 'The routine LASIK procedure'  
**Course Instructor**, American Academy of Ophthalmology  
October 20-25, 2011, Orlando, United States of America
- 'The Challenging Patient: Risk Management and Optimizing Patient Satisfaction by Effectively Managing Personality Styles'  
**Course Faculty**, American Academy of Ophthalmology  
October 20-25, 2011, Orlando, United States of America
- 'Regression after hyperopic LASIK: laser or lens surgery'  
**Invited Speaker**, UKISCRS Annual Meeting  
October 13-14, 2011, Southport, United Kingdom
- 'Moderate to High Myopia – LASIK best option'  
**Invited Speaker**, UKISCRS Annual Meeting  
October 13-14, 2011, Southport, United Kingdom
- 'Diagnostic technology and techniques for complicated cases after refractive surgery'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'Treatment options for small optical zone / high spherical aberration (induced night vision glare and halos)'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria

- 'Treatment options for decentration'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'Treatment options for irregularly irregular astigmatism'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'Excimer laser presbyLASIK techniques: Peripheral presbyLASIK techniques'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'Corneal structural analysis of complicated corneas using Artemis VHF digital ultrasound scanning'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'Treatment of complex cases combining internal corneal anatomical data with an excimer laser'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'Laser Blended Vision: Using the most natural optical language of the visual system for treating presbyopia'  
**Invited Speaker**, Carl Zeiss Meditec Symposium 'Highlights in Corneal and Cataract Surgery'  
European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'Very high frequency ultrasound for the imaging of the cornea'  
**Invited Speaker**, Workshop on Visual Optics, ESCRS  
September 16-20, 2011, Vienna, Austria
- 'Mel80 Laser Blended Vision' in 'Presbyopia, the corneal approach: state of the art'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria
- 'The History of LASIK: From Lathes to Lasers'  
**Film Presentation**, Southern African Society of Cataract & Refractive Surgery  
August 19-20, 2011, Durban, South Africa
- 'Laser Blended Vision: The end of Multifocal IOLs for Presbyopia?'  
**Invited Speaker**, Southern African Society of Cataract & Refractive Surgery  
August 19-20, 2011, Durban, South Africa
- 'ReLEx: The Final Frontier of Corneal Refractive Surgery'  
**Invited Speaker**, Southern African Society of Cataract & Refractive Surgery  
August 19-20, 2011, Durban, South Africa
- 'Present Pearls and Future Advances in Diagnosis and Therapeutic Treatment of Refractive Corneal Complications'  
**Invited Speaker**, Southern African Society of Cataract & Refractive Surgery  
August 19-20, 2011, Durban, South Africa
- 'Extending the range of Corneal Refractive Surgery to above +5.00 above -10.00 D'  
**Invited Speaker**, Southern African Society of Cataract & Refractive Surgery  
August 19-20, 2011, Durban, South Africa
- 'High Frequency Ultrasound Imaging'  
**Invited Speaker**, 1<sup>st</sup> Joint International Congress ISRS Refr@ctive Online and SICSSO  
July 7-9, 2011, Tuscany, Italy
- 'Femtosecond Laser Symposium: Flaps'  
**Invited Speaker**, British Society for Refractive Surgery 18<sup>th</sup> Annual Scientific Congress  
June 25-26, 2011, Belfry West Midlands, United Kingdom

- 'Surgical Management of corneal dystrophies'  
**Invited Speaker**, BCLA British Contact Lens Association Clinical Conference & Exhibition  
May 27, 2011, Manchester, United Kingdom
- 'Excimer Laser Complications: Flap Wrinkles'  
**Invited Speaker**, RCO Royal College of Ophthalmologists Annual Congress  
May 24-26, 2011, Birmingham, United Kingdom
- 'Very high myopic LASIK using new hybrid aspheric profiles'  
**Invited Speaker**, Carl Zeiss Meditec International Refractive User Symposium  
April 9-10, 2011, Dubai, United Arab Emirates
- 'Laser Blended Vision – the safest and most effective solution for emmetropic, myopic and hyperopic presbyopia'  
**Invited Speaker**, Carl Zeiss Meditec International Refractive User Symposium  
April 9-10, 2011, Dubai, United Arab Emirates
- 'History of Keratomileusis: From Lathes to LASIK'  
**Film Presentation**, American Society for Cataract and Refractive Surgery  
March 25-28, 2011, San Diego, USA
- 'Multifocal Ablations: centre near, off-centre, hyperopic and aspheric ablations'  
**Invited Speaker**, Combined Symposium of Cataract and Refractive Societies  
American Society for Cataract and Refractive Surgery  
March 25-28, 2011, San Diego, USA
- 'Management of Complicated Cases in Cataract and Refractive Surgery (Presented in Spanish)'  
**Invited Speaker**, American Society for Cataract and Refractive Surgery Symposium  
March 25-28, 2011, San Diego, USA
- 'Laser Blended Vision – The Safest and Most Effective Solution for Emmetropic, Myopic and Hyperopic Presbyopia'  
**Invited Speaker**, Carl Zeiss Meditec Refractive Laser Symposium 'Innovations and Highlights in Refractive Surgery', American Society for Cataract and Refractive Surgery  
March 25-28, 2011, San Diego, USA
- 'Laser Blended Vision'  
**Invited Speaker**, International Refractive User Symposium Kuala Lumpur 2010  
November 25-28, 2010, Kuala Lumpur, Malaysia
- 'Very high myopic LASIK using new hybrid aspheric profiles'  
**Invited Speaker**, International Refractive User Symposium Kuala Lumpur 2010  
November 25-28, 2010, Kuala Lumpur, Malaysia
- 'Accuracy of the VisuMax Femtosecond Laser'  
**Invited Speaker**, International Refractive User Symposium Kuala Lumpur 2010  
November 25-28, 2010, Kuala Lumpur, Malaysia
- 'Treatment of emmetropic or ametropic presbyopia by corneal aberration modification'  
**Invited Speaker**, USISCRS Annual Meeting  
November 11, 2010, Brighton, United Kingdom
- 'Safety and Efficacy of new profiles designed for low-tissue consumption high myopic corneal refractive surgery'  
**Invited Speaker**, USISCRS Annual Meeting  
November 11, 2010, Brighton, United Kingdom
- 'A step-by-step primer to starting LASIK in 2010'  
**Course Instructor**, American Academy of Ophthalmology  
October 15-19, 2010, Chicago, USA

- 'The challenging patient: Risk management and optimizing patient satisfaction by effectively managing personality styles'  
**Course Faculty**, American Academy of Ophthalmology  
October 15-19, 2010, Chicago, USA
- 'Safety, efficacy, contrast sensitivity, and stereoacuity after corneal presbyopic LASIK in emmetropic patients'  
**Invited Speaker**, American Academy of Ophthalmology, Subspecialty Day  
October 15-19, 2010, Chicago, USA
- 'The Future of the MEL80 Zeiss System'  
**Invited Speaker**, American Academy of Ophthalmology, Subspecialty Day  
October 15-19, 2010, Chicago, USA
- 'Setting the clock back on ageing eyes: treating presbyopia by laser eye surgery'  
**Invited Speaker**, 7<sup>th</sup> Annual Anti-Ageing Conference  
September 10-12, 2010, London, United Kingdom
- 'Corneal surgical techniques of managing astigmatism: excimer ablation'  
**Invited Speaker**, Symposium on 'Astigmatism'  
European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'LASIK in young patients with large pupils'  
**Invited Speaker**, ISRS Symposium 'Controversies: Refractive Surgery, Corneal Collagen Cross Linking and Refractive Cataract Surgery'  
European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'Peripheral presbyLASIK techniques'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'Complications after LASIK or PRK: achieving excellent outcomes in therapeutic corneal refractive surgery'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'Laser Blended Vision – the Safest and Most Effective Solution for Emmetropic, Myopic and Hyperopic Presbyopia'  
**Invited Speaker**, Carl Zeiss Meditec Lunch Symposium 'Innovations in Refractive Surgery: ReLEX and Laser Blended Vision'  
European Society of Cataract and Refractive Surgery  
September 3-7, Paris, France
- 'Very high frequency ultrasound for the imaging of the cornea'  
**Invited Speaker**, Workshop on Visual Optics 'Imaging the Human Eye'  
Basic Optics Course, European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'History of LASIK' Video presentation  
**Presenter and Producer**, Symposium '20/10 in 2010: The 20<sup>th</sup> Anniversary of LASIK'  
European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'How does LBV work in principle? How does it work in daily practice?'  
**Invited Speaker**, LBV User Breakfast Meeting  
European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France

- 'Ordinary and special use of contrast sensitivity testing in refractive surgery'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'Artemis VHF digital ultrasound guided repair of irregular corneal surfaces – Ultrasound guided PTK – Zeiss Mel 80'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'Surface and sub-surface corneal diagnostic technology in refractive surgery complications'  
**Invited Speaker**, Clinical Research Symposia 'New Technology Applications in Ophthalmic Surgery'  
European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France
- 'Laser Blended Vision – the safest and most effective solution for emmetropia, myopic and hyperopic presbyopia'  
**Invited Speaker**, British Society of Refractive Surgery  
June 27, 2010, Belfry Birmingham, United Kingdom
- "VisuMax" in "The Femtosecond Face-Off"  
**Invited Speaker**, World Ophthalmology Congress  
June 5-8, 2010, Berlin, Germany
- "Surface and sub-surface corneal diagnostic technology in refractive surgery complications"  
**Invited Speaker**, World Ophthalmology Congress  
June 5-8, 2010, Berlin, Germany
- "Laser Blended Vision – the safest and most effective solution for emmetropic, myopic and hyperopic presbyopia"  
**Invited Speaker**, Carl Zeiss Meditec Lunch Symposium, World Ophthalmology Congress  
June 5-8, 2010, Berlin, Germany
- 'Ultrasound and ultrasound biomicroscopy (UBM)' in 'Anterior Segment Imaging'  
**Invited Speaker**, Royal College of Ophthalmologists Annual Congress  
May 25, 2010, Liverpool, United Kingdom
- 'The role of VHF digital ultrasound diagnostics in the scientific advancement of corneal and intraocular refractive surgery'  
**Invited Speaker**, Coleman Lecture  
April 15, 2010, New York, USA
- 'Laser Blended Vision for Presbyopia: Seven-in-one LASIK'  
**Invited Speaker**, Carl Zeiss Meditec Booth talk  
American Society for Cataract and Refractive Surgery  
April 9-14, 2010, Boston, USA
- 'Is ReLEx a Potential Treatment Method for all Femtosecond Laser Systems'  
**Invited Speaker**, Zeiss Refractive Laser Innovations: Enhancing Refractive Surgery with the VisuMax ReLEx Procedure', American Society of Cataract and Refractive Surgery  
April 9-14, 2010, Boston, USA
- 'Controversies in Topographic Evaluation'  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 9-14, 2010, Boston, USA
- 'The Day after Tomorrow'  
**Invited Speaker**, Professor John Marshall Academic Day of Lectures  
March 26, 2010, London, United Kingdom

- 'Keynote, LASIK, IntraLASIK and surface ablation. Which one is the best surgical procedure?'  
**Invited Speaker**, 1er Congreso Fundacional ASETCIRC  
January 29, 2010, Madrid, Spain
- 'The Routine Procedure'  
**Course Instructor**, A Step-by-Step Primer to Starting LASIK in 2009  
American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA
- 'Sequential Therapeutic Corneal Refractive Surgery'  
**Invited Speaker**, ISRS/AAO Symposium  
American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA
- 'The new CRS-Master Laser Blended Vision module: Age optimized treatments for the management of Presbyopia with Hyperopia, Myopia or Emmetropia'  
**Invited Speaker**, Carl Zeiss Meditec Innovation Symposium  
American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA
- 'The Great Femtosecond Face-off: Carl Zeiss Meditec VisuMax'  
**Course Faculty**, American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA
- 'FLEx Procedure: LASIK without an Excimer'  
**Invited Speaker**, Subspecialty Day: Hot, Hotter, Hottest: Late Breaking News  
American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA
- 'Laser Blended Vision – A new method of managing presbyopia by LASIK regardless of refractive error in an age optimized fashion'  
**Invited Speaker**, Carl Zeiss Meditec Booth Presentation  
American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA
- 'Artemis Consolidated'  
**Invited Speaker**, Artemis Board Meeting  
American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA
- 'Innovation Category'  
**Video Presentation**, Videocatarattarefrattiva  
October 16-17, 2009, Milan, Italy
- 'LASIK for high myopia: New Considerations'  
**Invited Speaker**, Main Symposium 'Surgical Solutions for High Refractive Errors'  
European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain
- 'Ultrasound guided PTK - Zeiss MEL 80'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain
- Artemis VHF digital ultrasound guided repair of irregular corneal surfaces'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain

- 'The new CRS-Master Laser Blended Vision module - accurate LASIK treatment for presbyopia in Plano, myopic and hypermetropic patients without visual compromises in contrast sensitivity or stereopsis'  
**Invited Speaker**, Carl Zeiss Meditec Innovation Symposium  
European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain
- 'Ordinary and Special Use of Contrast Sensitivity Testing in Refractive Surgery'  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain
- 'Exploring the anterior segment of the eye'  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain
- 'Confocal microscopy and ultrasound imaging of the cornea'  
**Invited Speaker**, Workshop on Visual Optics  
European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain
- 'Wider Limits' in 'Excimer Laser for Hyperopia: What are Age and Degree Limits?'  
**Invited Speaker**, JCRS Symposium on 'Controversies in Cataract and Refractive Surgery'  
European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain
- 'Blended Vision with Refractive Surgery'  
**Invited Speaker**, Presbyopia 2009  
September 11, 2009, Barcelona, Spain
- "Dry eye in corneal laser patients"  
**Invited Speaker**, Annual Congress of The Royal College of Ophthalmologists  
May 19-21, 2009, Birmingham, UK
- "Laser Blended Vision with the CZM Excimer Platform for the Management of Presbyopia with Hyperopia, Myopia or Emmetropia"  
**Invited Speaker**, CZM Symposium 'Optimizing Outcomes with Advanced Technologies', ASCRS  
April 2-7, 2009, San Francisco, USA
- "Introduction to the design and performance characteristics of the VisuMax Femtosecond Laser"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 2-7, 2009, San Francisco, USA
- "Screening for keratoconus using epithelial thickness profiles"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 2-7, 2009, San Francisco, USA
- "Diagnostic and Therapeutic Relevance of Epithelial Thickness Profiles in Corneal Crosslinking"  
**Invited Speaker**, ASCRS Symposium 'Controversies in Corneal Collagen Crosslinking'  
April 2-7, 2009, San Francisco, USA
- "Corneal refractive surgery complications presenting to an NHS emergency department"  
**Invited Speaker**, Regional Study Day, St Thomas Hospital  
March 25, 2009, London, United Kingdom
- "Expert LASIK for beginners"  
**Invited Speaker**, Regional Study Day, St Thomas Hospital  
March 25, 2009, London, United Kingdom
- "The ultimate ablation: excimer refractive surgery"  
**Invited Speaker**, Royal Society of Medicine  
March 23, 2009, London, United Kingdom

- "The ultimate ablation: excimer refractive surgery" in 'Laser weapons in ophthalmology and in war'  
**Invited Speaker**, Royal Society of Medicine  
March 12, 2009, London, United Kingdom
- "Introduction to refractive surgery"  
**Invited Speaker**, London Bridge Hospital  
January 29, 2009, London, United Kingdom
- "Monovision - What can we learn from Corneal Laser Surgery"  
**Invited Speaker**, Trends in Ophthalmology Annual Meeting, St Thomas' Hospital  
January 23, 2009, London, United Kingdom
- "VisuMax Femtosecond Laser System"  
**Invited Speaker**, Carl Zeiss Meditec Symposium, American Academy of Ophthalmology  
November 8-11, 2008, Atlanta, USA
- "Topography in 2008: What Every Surgeon Needs to Know"  
**Course Faculty**, American Academy of Ophthalmology  
November 8-11, 2008, Atlanta, USA
- "ISRS/AAO Sponsored A Step-by-Step Primer to Starting LASIK in 2008"  
**Course Instructor**, American Academy of Ophthalmology  
November 8-11, 2008, Atlanta, USA
- "The Role of the Epithelium in the Detection of Forme Fruste Keratoconus"  
**Invited Speaker**, The Journal of Refractive Surgery, AAO Subspecialty Day in 'Refractive Surgery: The Danger Zone'  
November 7-8, 2008, Atlanta, USA
- "Secrets of Success"  
**Invited Speaker**, The Telegraph Business Club  
October 7, 2008, London, United Kingdom
- "LASIK is safe in the long run; looking back at 50 years of lamellar corneal surgery"  
**Invited Speaker**, Symposium 'Veiligheid & Moderne Refractiechirurgie', VisionClinics  
October 3, 2008, Utrecht, The Netherlands
- "Clinical Outcomes and Assessment of Flap Thickness Accuracy and precision by 3D VHF ultrasound scanning in femto LASIK with the VisuMax femtosecond laser system"  
**Invited Speaker**, Carl Zeiss Innovation Symposium 'Refractive Surgery Highlights'  
September 15, 2008, Berlin, Germany
- "Exploring the anterior segment of the eye"  
**Course Instructor**, European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany
- "Imaging the Cornea" in 'Imaging the Human Eye'  
**Invited Speaker**, Workshop on Visual Optics, European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany
- "Artemis VHF digital ultrasound guided repair of irregular corneal surfaces" in 'Customized ablation in management of irregular astigmatism'  
**Course Faculty**, European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany
- "Centration along pupil or visual axis in corneal laser surgery" in 'Ocular Alignment'  
**Invited Speaker**, Clinical Research Symposium, European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany



- "Outcomes of Presbyopic Micro-Monovision LASIK for Myopia, Hyperopia and Emmetropia"  
**Invited Speaker**, International Society of Presbyopia  
September 12, 2008, Berlin, Germany
- "Introduction to refractive surgery"  
**Invited Speaker**, London Bridge Hospital  
September 3, 2008, London, United Kingdom
- "Presbyopic LASIK: Laser Blended Vision" in 'Bring a case – members present interesting or challenging cases'  
**Invited Speaker**, British Society of Refractive Surgery  
July 5-6, 2008, Oxford, United Kingdom
- "Hyperopic treatment debate: Corneal treatment is best" (versus 'Lens treatment is best')  
**Invited Speaker**, British Society of Refractive Surgery  
July 5-6, 2008, Oxford, United Kingdom
- "Accuracy and Reproducibility of Flap Thickness with the Visumax Femtosecond Laser System", IV-RS-073  
**Video Presentations**, World Ophthalmology Congress  
June 28-July 2, 2008, Hong Kong, SAR
- "Topography-guided retreatment for the 'Sins' of Refractive Surgery (Mel 80)" in Refractive Surgery Symposium 'Best Excimer Laser'  
**Invited Speaker**, World Ophthalmology Congress  
June 28-July 2, 2008, Hong Kong, SAR
- "Phakic IOL Sizing"  
**Invited Speaker** (on behalf of Carlo Lovisolo), World Ophthalmology Congress  
June 28-July 2, 2008, Hong Kong, SAR
- "Detection of Keratoconus – Analysis Based on Epithelial Thickness Profiles"  
**Invited Speaker**, World Ophthalmology Congress  
June 28-July 2, 2008, Hong Kong, SAR
- "Residual Stromal Thickness – Probability Model of the inaccuracy of RST Prediction using different Flap-Creating Technologies"  
**Invited Speaker** (on behalf of Timothy J. Archer), World Ophthalmology Congress  
June 28-July 2, 2008, Hong Kong, SAR
- "Clinical Outcomes and Assessment of Flap Thickness Accuracy and Precision by 3D VHF Ultrasound Scanning in Femto LASIK with VisuMax Femtosecond Laser System"  
**Invited Speaker**, Carl Zeiss Refractive Forum  
May 24-25, 2008, Hong Kong, SAR
- "Introduction to the VisuMax Femto Laser System & Evaluation of IOP during the procedure"  
**Invited Speaker**, Carl Zeiss Refractive Forum  
May 24-25, 2008, Hong Kong, SAR
- "Introduction to the VisuMax Femtosecond Laser System and Evaluation of IOP during the Procedure"  
**Invited Speaker**, Carl Zeiss Innovation Symposium: Refractive Highlights, ASCRS  
April 4-9, 2008, Chicago, USA
- "Clinical Outcomes and Assessment of Flap Thickness Accuracy and Precision by 3D VHF Ultrasound Scanning in Femto LASIK with the VisuMax Femtosecond Laser System"  
**Invited Speaker**, Carl Zeiss Innovation Symposium: Refractive Highlights, ASCRS  
April 4-9, 2008, Chicago, USA

- "Artemis VHF digital ultrasound guided repair of irregular corneal surfaces – Ultrasound guided PTK – Zeiss Mel 80" in "Customized Ablation in Surgical Management of irregular Astigmatism"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 4-9, 2008, Chicago, USA
- "Advanced Corneal Topography for Refractive Surgeons"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 4-9, 2008, Chicago, USA
- "A new treatment method for presbyopia without compromising the quality of vision"  
**Invited Speaker**, Videocatarattarefrattiva 2008  
February 15-16, 2008, Milan, Italy
- "Extending the range of myopic laser refractive surgery up to -15.00 D using a new custom programmed non-linear aspheric low tissue consumption ablation profile"  
**Invited Speaker**, Videocatarattarefrattiva 2008  
February 15-16, 2008, Milan, Italy
- "LASIK in eyes with a large angle kappa"  
**Invited Video presentation**, Videocatarattarefrattiva 2008  
February 15-16, 2008, Milan, Italy
- "LASIK with the Carl Zeiss Meditec VisuMax femtosecond laser system and Mel80 excimer laser"  
**Invited Video presentation**, Videocatarattarefrattiva 2008  
February 15-16, 2008, Milan, Italy
- "Flap Accuracy and Clinical Results combining VisuMax + Mel80 + CRS Master"  
**Invited Speaker**, Cirugia Refractiva Internacional 2007  
December 14, 2007, Barcelona, Spain
- "A new Method for Treating Presbyopia using the Mel80 Excimer Laser and the CRS Master"  
**Invited Speaker**, Cirugia Refractiva Internacional 2007  
December 14, 2007, Barcelona, Spain
- "Utility of VHF Digital Ultrasound in Improving the Safety of Refractive Surgery (Artemis)"  
**Invited Speaker**, Cirugia Refractiva Internacional 2007  
December 14, 2007, Barcelona, Spain
- "High Resolution Ultrasound Imaging"  
**Invited Speaker**, Trends in Ophthalmology  
November 22, 2007, Royal Society, London, UK
- "Corrective Vision Eye Surgery"  
**Invited Speaker**, GP Masterclass, Clinical Specialties  
November 21, 2007, Institute of Physics, London, UK
- "The Routine LASIK Procedure" in "A Step-by-Step Primer to Starting LASIK in 2007"  
**Course Instructor**, American Academy of Ophthalmology Annual Meeting  
November 10-13, 2007, New Orleans, USA
- "Clinical outcomes and assessment of the flap thickness accuracy and precision with the VisuMax femtosecond system"  
**Invited Speaker**, American Academy of Ophthalmology Annual Meeting, Carl Zeiss Innovation Symposium: Refractive Highlights  
November 10-13, 2007, New Orleans, USA
- "Diagnosis and Management of Post-Refractive Surgery Complex Eyes Using Artemis 3D VHF Digital Ultrasound" in "Custom Excimer Treatment for Complex Eyes"  
**Course Faculty**, American Academy of Ophthalmology Annual Meeting  
November 10-13, 2007, New Orleans, USA

- "Can mathematical modeling prevent ectasia?" in "Innovation in Refractive Surgery: So New it May not be True"  
**Course Faculty**, American Academy of Ophthalmology Annual Meeting  
November 10-13, 2007, New Orleans, USA
- "The Combination of the VisuMax Femtosecond System and the Mel80 Excimer Laser – Results of the European VisuMax Study Group"  
**Invited Speaker**, American Academy of Ophthalmology Annual Meeting, Carl Zeiss Booth  
November 10-13, 2007, New Orleans, USA
- "Ultrasound Biomicroscopy"  
**Invited Speaker**, American Academy of Ophthalmology Cornea Subspecialty Day  
November 9-10, 2007, New Orleans, USA
- "Update on Diagnostics for Refractive Surgery"  
**Keynote Presenter**, American Academy of Ophthalmology Refractive Subspecialty Day  
November 9-10, 2007, New Orleans, USA
- "Tratando la presbicia con Laser Excimer. Y.... tambien: Donde se aplica el laser?"  
**Invited Speaker**, FuturOftal  
October 19-20, 2007, Madrid, Spain
- "Tratamientos de casos complicados: Laser guiado por topografia"  
**Invited Speaker**, FuturOftal  
October 19-20, 2007, Madrid, Spain
- "Can I avoid Ectasia in all of my keratorefractive patients"  
**Invited Speaker**, Ocular Surgery News Meeting  
October 13-14, 2007, New York, USA
- "Introduction to Refractive Surgery"  
**Invited Speaker**, Metropolitan Police, Quarterly Meeting of Occupational Health Clinical Staff  
September 13, 2007, London, England
- "Refractive surgery with the new Zeiss VisuMax femtosecond laser & Mel 80"  
**Near Live Surgery Video Session**, European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden
- "VHF digital ultrasound guided repair of irregular corneal surfaces – Ultrasound guided PTK – Zeiss Mel 80"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden
- "Assessment of VisuMax femtosecond laser flap thickness accuracy and precision"  
**Invited Speaker**, Carl Zeiss Meditec Innovation Symposium, European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden
- "Very high ultrasonography - Artemis"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden
- "Exploring the anterior segment of the eye"  
**Course Instructor**, European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden
- "VHF Digital Arcscan: Corneal Imaging"  
**Invited Speaker**, Clinical Research Symposium, European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden

- "CRS Master: A complete platform for all forms of corneal refractive surgery"  
**Invited Speaker**, 12<sup>th</sup> Congress of the Chinese Ophthalmological Society  
August 31 - September 1, 2007, Zhengzhou, China
- "Prevention of Ectasia in corneal refractive surgery"  
**Invited Speaker**, 8<sup>th</sup> Dutch Symposium on Refractive Surgery  
May 11-12, 2007, Leiden, The Netherlands
- "LASIK is safe in the long run: Looking back at 50 years of lamellar corneal surgery"  
**Invited Speaker**, 8<sup>th</sup> Dutch Symposium on Refractive Surgery  
May 11-12, 2007, Leiden, The Netherlands
- "Customized Ablation in surgical management of irregular astigmatism"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 28 - May 1, 2007, San Diego, USA
- "Diagnosis of keratoconus as early as possible with high frequency ultrasound"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 28 - May 1, 2007, San Diego, USA
- "Topography-guided customized laser ablation in complex refractive cases"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 28 - May 1, 2007, San Diego, USA
- "Custom Treatment of Challenging Cases with the CRS-Master: Choice of Topography and Wavefront Treatment Modalities"  
**Invited Speaker**, Carl Zeiss Innovation Symposium: Refractive Highlights, ASCRS  
April 28 - May 1, 2007, San Diego, USA
- "Assessment of VisuMax Flap Thickness Accuracy and Precision by 3D VHF Ultrasound Scanning"  
**Invited Speaker**, Carl Zeiss Innovation Symposium: Refractive Highlights, ASCRS  
April 28 - May 1, 2007, San Diego, USA
- "Topographic guided ablations in a symposium covering wavefront guided, wavefront optimized and topographic guided"  
**Invited Speaker**, Cornea Day, ASCRS  
April 27, 2007, San Diego, USA
- **Live Surgery**, Customized Ablation  
Carl Zeiss Mel 80, International User Symposium  
March 23-25, 2007, Singapore
- "Extending the role of extraocular refractive surgery"  
**Invited Speaker**, Carl Zeiss Mel 80, International User Symposium  
March 23-25, 2007, Singapore
- "6-Months-Results of a Wavefront-Topography-Supported Custom Ablation: Mel80 CRS-Master II"  
**Invited Speaker**, Carl Zeiss Mel 80, International User Symposium  
March 23-25, 2007, Singapore
- "Presbyopic LASIK without visual compromises"  
**Invited Speaker**, Carl Zeiss Mel 80, International User Symposium  
March 23-25, 2007, Singapore
- "Presbyopia and Aging Eyes: Turning the clock back on near vision"  
**Invited Speaker**, Anti-Aging Medicine World Congress  
March 22-24, 2007, Monte Carlo
- "Epilasik y Lasek: Con o sin flap?"  
**Invited Speaker**, Debate, Alicante Refractiva International  
March 8-10, 2007, Alicante, Spain

- "Ponencia: Espesor del flap. Flap grueso o flap fino?"  
**Invited Speaker**, Alicante Refractiva International  
March 8-10, 2007, Alicante, Spain
- "Cirugia refractiva corneal y calidad visual"  
Alicante Refractiva, Official ISRA/AAO Course 'Calidad de la vision en cirugia refractive y de la caqtarata"  
**Invited Speaker**, Alicante Refractiva International  
March 8-10, 2007, Alicante, Spain
- "Predicting Ectasia – A new Model"  
**Invited Speaker**, The Aspen Invitational Refractive Symposium  
March 5-7, 2007, Aspen/Colorado, USA
- "Spotting Keratoconus as early as possible"  
**Invited Speaker**, The Aspen Invitational Refractive Symposium  
March 5-7, 2007, Aspen/Colorado, USA
- "Extending the role of corneal refractive surgery: presbyopia, and high ametropias"  
**Invited Speaker**, Royal Free Hospital  
January 12, 2007, London, UK
- "VHF Digital ultrasound scanning observations after corneal cross linking"  
**Invited Speaker**, 2<sup>nd</sup> International Corneal Cross-Linking Congress  
December 8-9, 2006, Zurich, Switzerland
- "High frequency ultrasound of the cornea"  
**Invited Speaker**, Medical Contact Lens and Ocular Surface Association (MCLOSA), Ann. Meeting  
November 17, 2006, Royal College of Obstetricians and Gynaecologists, London, United Kingdom
- "Biomechanics Section"  
**Invited Speaker**, JRS Board Meeting, American Academy of Ophthalmology  
November 9-14, 2006, Las Vegas, USA
- "New approaches to optimizing safety and efficacy in refractive surgery using emerging technologies for high-precision biometry"  
**Course Instructor**, American Academy of Ophthalmology  
November 9-14, 2006, Las Vegas, USA
- "Custom Excimer Treatment for Complex Eyes"  
**Course Faculty**, American Academy of Ophthalmology  
November 9-14, 2006, Las Vegas, USA
- "C3-Riboflavin treatment for Keratoconus and other ectatic disorders"  
**Course Faculty**, American Academy of Ophthalmology  
November 9-14, 2006, Las Vegas, USA
- "Mel 80 – The evolution of the CRS-Master custom ablation platform"  
**Invited Speaker**, Carl Zeiss Meditec Innovation Symposium, American Academy of Ophthalmology  
November 9-14, 2006, Las Vegas, USA
- "An unexpected wave: Revolutionising the safety and efficacy of refractive surgery with ultrasound"  
**Invited Speaker - Keynote Talk**, American Society of Ophthalmic Ultrasound  
American Academy of Ophthalmology  
November 9-14, 2006, Las Vegas, USA
- "New technologies in anterior segment biometry"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 9-13, 2006, London, United Kingdom

- **Live Surgery**, St. Anne's Hospital, Moorfield's Hospital  
European Society of Cataract and Refractive Surgery  
September 9-13, 2006, London, United Kingdom
- "The new safety guidelines of Phakic IOL implantation"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 9-13, 2006, London, United Kingdom
- "Customized ablation in management of irregular astigmatism"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 9-13, 2006, London, United Kingdom
- "Exploring the anterior segment of the eye"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 9-13, 2006, London, United Kingdom
- "Spotting Keratoconus as early as possible – what techniques can we use?"  
**Invited Speaker**, Clinical Research Symposium, ESCRS  
September 9-13, 2006, London, United Kingdom
- "Extending the range of corneal refractive surgery"  
**Invited Speaker**, Wenzhou Medical College  
July 22, 2006, Wenzhou, China
- "Extending the range of corneal refractive surgery"  
**Invited Speaker**, ENT Hospital Shanghai  
July 21, 2006, Shanghai, China
- "Applications of high-precision 3D anatomical imaging of the cornea and anterior segment in refractive surgery"  
**Invited Speaker**, Annual Scientific Congress, British Society for Refractive Surgery  
July 1, 2006, Oxford, United Kingdom
- "Topography Wavefront Treatment of Refractive Corneal Complications"  
**Invited Speaker**, Makina Users Meeting and Symposium  
June 23-25, 2006, Antalya, Turkey
- "Extending the treatment range of high myopic corneal refractive surgery"  
**Invited Speaker**, Scandinavian Congress of Ophthalmology (NOK)  
June 18-19, 2006, Copenhagen, Denmark
- "Corrective vision eye surgery: Cataract and Photorefractive laser surgery"  
**Invited Speaker**, GP Masterclass – Clinical Specialties II  
June 21, 2006, BMA House, London, United Kingdom
- "Mel 80 and CRS Master"  
**Invited Speaker**, Scandinavian Congress of Ophthalmology (NOK)  
June 18-19, 2006, Copenhagen, Denmark
- "Extending the role of extraocular refractive surgery, presbyopia and high myopia"  
**Invited Speaker**, Western Ophthalmic Hospital  
June 16, 2006, London
- "VHF digital ultrasound scanning of the cornea in excimer laser surgery: What's it for?"  
**Invited Speaker**, Israeli Cornea Society Annual Meeting  
June 9-10, 2006, Zefat, Israel
- "Ocular dimensions for phakic IOL surgery: what correlates to what?"  
**Invited Speaker**, Israeli Cornea Society Annual Meeting  
June 9-10, 2006, Zefat, Israel

- "All you wanted to know about ectasia (but were reluctant to ask): Prevention and Treatment"  
**Invited Speaker**, Israeli Cornea Society Annual Meeting  
June 9-10, 2006, Zefat, Israel
- "Extending the range of corneal refractive surgery into the high myopic and hyperopic range"  
**Invited Speaker**, Israeli Cornea Society Annual Meeting  
June 9-10, 2006, Zefat, Israel
- "How does internal corneal anatomical information help us in solving complex corneal refractive surgical problems?"  
**Invited Speaker**, Israeli Cornea Society Annual Meeting  
June 9-10, 2006, Zefat, Israel
- "Modern Diagnosis and Surgical Treatment for Keratoconus and Post-LASIK Corneal Ectasia"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
March 17-22, 2006, San Francisco, USA
- "Prolaticity for Better Vision"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
March 17-22, 2006, San Francisco, USA
- "Customized Ablation in Surgical Management of Irregular Astigmatism"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
March 17-22, 2006, San Francisco, USA
- "Combined Wavefront and Topography Guided Treatment"  
**Invited Speaker**, Carl Zeiss Innovation Symposium Cataract and Refractive Highlights  
American Society of Cataract and Refractive Surgery  
March 17-22, 2006, San Francisco, USA
- "High-Frequency Ultrasound Detection of Ectatic Conditions"  
**Invited Speaker**, Symposium: Anterior Segment Imaging  
American Society of Cataract and Refractive Surgery  
March 17-22, 2006, San Francisco, USA
- "Everyday Use of Artemis VHF digital ultrasound scanning in optimizing outcomes and avoiding the complications of refractive surgery"  
**Invited Speaker**, American Society of Cataract and Refractive Surgery  
March 17-22, 2006, San Francisco, USA
- "Customized corneal refractive surgery"  
**Invited Lecturer**, MSc Module on Refractive Surgery, Department of Optometry, City University,  
University of London  
January 30, 2006, London
- "Managing complex refractive surgical complications"  
**Invited Speaker**, Refractive Surgery work-shop, Ophthalmic Winter Seminar  
January 19-22, 2006, Saas Fee, Switzerland
- "Artemis VHF Digital Ultrasound Imaging and Biometry Applications for Optimizing the Safety of Refractive Surgery"  
**Invited Speaker**, Ophthalmic Winter Seminar  
January 19-22, 2006, Saas Fee, Switzerland
- "Combined topography wavefront guided treatment"  
**Invited Speaker**, International MEL 80 User Symposium Carl Zeiss Meditec  
November 18-20, 2005, Bangkok, Thailand
- "What is the best OZ (optical zone) with modern ablation profiles?"  
**Invited Speaker**, International MEL 80 User Symposium Carl Zeiss Meditec  
November 18-20, 2005, Bangkok, Thailand

- "LASIK after previous refractive surgery"  
**Course Faculty**, American Academy of Ophthalmology  
October 16-19, 2005, Chicago, USA
- "Advanced clinical corneal topography for refractive surgeons"  
**Course Faculty**, American Academy of Ophthalmology  
October 16-19, 2005, Chicago, USA
- "Combined Topography/Wavefront guided treatment"  
**Invited Speaker**, Carl Zeiss Meditec Symposium, American Academy of Ophthalmology  
October 16-19, 2005, Chicago, USA
- "New Approaches to optimizing safety and efficacy in refractive surgery using emerging technologies for high precision biometry"  
**Course Director**, Subspecialty Day, American Academy of Ophthalmology  
October 14-15, 2005, Chicago, USA
- "Phakic IOLs taken to Court – Jury"  
**Invited Speaker**, Subspecialty Day, American Academy of Ophthalmology  
October 14-15, 2005, Chicago, USA
- "Use of Artemis VHF digital ultrasound arc-scanning technology to optimize the practice of corneal and intraocular refractive surgery"  
**Invited Speaker**, Symposium, European Society of Cataract and Refractive Surgery  
September 9-14, 2005, Lisbon, Portugal
- "Face-off on current wavefront sensors: The wavefront-minator"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 9-14, 2005, Lisbon, Portugal
- "LASIK, Phakic IOL and presbyopic surgery: Optimizing safety and efficacy using VHF digital ultrasound 3D arc-scanning"  
**Course Director**, European Society of Cataract and Refractive Surgery  
September 9-14, 2005, Lisbon, Portugal
- "Customized ablation in management of irregular astigmatism"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 9-14, 2005, Lisbon, Portugal
- "Exploring the anterior segment of the eye"  
**Course Faculty**, European Society of Cataract and Refractive Surgery  
September 9-14, 2005, Lisbon, Portugal
- "Anterior Segment Imaging: High Frequency digital ultrasound"  
**Invited Speaker**, Symposium, European Society of Cataract and Refractive Surgery  
September 9-14, 2005, Lisbon, Portugal
- "Topography-guided repair of night vision disturbances induced by LASIK"  
**Invited Speaker**, Carl Zeiss Innovation Symposium: Refractive Highlights, ESCRS  
September 9-14, 2005, Lisbon, Portugal
- "Carl Zeiss Meditec Mel80 and CRS-Master: Aberration Smart, Wavefront and Topography guided treatments?"  
**Invited Speaker**, 10<sup>th</sup> Congress of Chinese Ophthalmological Society  
September 7-9, 2005, Tianjin, China
- "Customized ablation with Carl Zeiss Meditec CRS-Master and Mel80"  
**Invited Speaker**, Carl Zeiss Refractive Symposium  
August 8, 2005, Hong Kong, China



- "Custom customized LASIK with CRS Master and Mel 80"  
**Invited Speaker**, Makina Optik Users Meeting  
June 10-12, 2005, Antalya, Turkey
- "Emergence of phakic IOLs"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 15-20, 2005, Washington, DC, USA
- "Face off of current Wavefront Sensors"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 15-20, 2005, Washington, DC, USA
- "Artemis VHF digital ultrasound scanning in LASIK"  
**Course Faculty**, American Society of Cataract and Refractive Surgery  
April 15-20, 2005, Washington, DC, USA
- "Correction of night-vision problems after LASIK and residual refractive error by Wavefront-guided enhancement"  
**Invited Speaker**, Wavefront Symposium, American Society of Cataract and Refractive Surgery  
April 15-20, 2005, Washington, DC, USA
- "Custom Customized LASIK using the CRS-Master and Mel-80"  
**Invited Speaker**, Chinese Ophthalmology and Optometry Congress  
April 8-10, 2005, Shanghai, China
- "Custom Customized LASIK surgery using the CRS-Master and Mel-80"  
**Live Surgery**, Chinese Ophthalmology and Optometry Congress  
April 8-10, 2005, Shanghai, China
- "Carl Zeiss Meditec CRS-Master and Mel-80 outcomes in myopia, hyperopia, and night vision problems repair"  
**Invited Speaker**, SHIOL-Hungarian Society of Cataract and Refractive Surgery  
March 30 – April 1, 2005, Keszthely, Hungary
- "Artemis VHF digital ultrasound applications in improving the safety of refractive surgery"  
**Invited Speaker**, SHIOL-Hungarian Society of Cataract and Refractive Surgery  
March 30 – April 1, 2005, Keszthely, Hungary
- "My worst case of the year: Did I do it well?"  
**Invited Speaker**, 7<sup>th</sup> Alicante Refractiva Internacional 2005  
March 10-12, 2005, Alicante, Spain
- "Discovering the anterior segment anatomy: For and against optical methods versus ultrasonic methods": "High resolution ultrasonic techniques"  
**Invited Speaker**, 7<sup>th</sup> Alicante Refractiva Internacional 2005  
March 10-12, 2005, Alicante, Spain
- "The flap: present situation and its future?"  
**Live Surgery**, 7<sup>th</sup> Alicante Refractiva Internacional 2005  
March 10-12, 2005, Alicante, Spain
- "Latest developments in refractive surgery technology: Corneal Modeling"  
**Invited Discussion**, 7<sup>th</sup> Alicante Refractiva Internacional 2005  
March 10-12, 2005, Alicante, Spain
- "Shaping the cornea with Excimer laser"  
**Live Surgery**, 7<sup>th</sup> Alicante Refractiva Internacional 2005  
March 10-12, 2005, Alicante, Spain
- "A discussion by surgeons with minimal ties to industry of how to improve existing technology"  
**Invited Speaker**, 6<sup>th</sup> International Congress of Wavefront  
February 11-13, 2005, Athens, Greece

- "Clinical outcomes with the CRS-master"  
**Invited Speaker**, Carl Zeiss Symposium, European Society of Cataract and Refractive Surgery  
February 4-6, 2005, Rome, Italy
- "The role of high resolution ultrasound after refractive surgery"  
**Invited Speaker**, Trends in Ophthalmology, St. Thomas' Hospital  
November 25-26, 2004, London, England
- "Que es la aberrometria?"  
**Invited Speaker**, X Curso Annual del Centro Mexicano de Cornea y Cirugia Refractiva  
November 18-21, 2004, Cancun, Mexico
- "Equipos con tecnologia de ablacion personalizada II"  
**Invited Speaker**, X Curso Annual del Centro Mexicano de Cornea y Cirugia Refractiva  
November 18-21, 2004, Cancun, Mexico
- "La Guerra de los lasers `Excimator`"  
**Invited Speaker**, X Curso Annual del Centro Mexicano de Cornea y Cirugia Refractiva  
November 18-21, 2004, Cancun, Mexico
- "Wavefront guided repair of night vision disturbances induced by LASIK"  
**Invited Speaker**, Carl Zeiss Meditec Wavefront Symposium, AAO/SOE, Annual Meeting  
October 23-26, 2004, New Orleans, USA
- "Wavefront guided repair of night vision disturbances induced by LASIK"  
**Invited Speaker**, Carl Zeiss Meditec booth theatre presentation, AAO/SOE, Annual Meeting  
October 23-26, 2004, New Orleans, USA
- "Sub-surface pachymetric topography: Artemis VHF digital ultrasound scanning in LASIK" in  
"Advanced clinical corneal topography for refractive surgeons"  
**Course Faculty**, AAO/SOE, Annual Meeting  
October 23-26, 2004, New Orleans, USA
- "Pathophysiology of regression following LASIK"  
**Invited Speaker**, AAO Subspecialty Day, Annual Meeting  
October 22-23, 2004, New Orleans, USA
- "Unique applications: How to make Artemis make money for you" in "Artemis 2: 21<sup>st</sup> century  
precision biometry"  
**Invited Speaker**, Artemis User Meeting, AAO Subspecialty Day, Annual Meeting  
October 22-23, 2004, New Orleans, USA
- "Using the CRS-Master and MEL-80 to repair night vision disturbances after corneal refractive  
surgery"  
**Invited Speaker**, Refractiva online  
September 23-25, 2004, Milan, Italy
- "Improving the safety of refractive surgery by Artemis VHF digital ultrasound scanning"  
**Invited Speaker**, Refractiva online  
September 23-25, 2004, Milan, Italy
- "Wavefront guided repair of night vision disturbances induced by LASIK"  
**Invited Speaker**, Carl Zeiss Meditec Wavefront Symposium, ESCRS  
September 18-22, 2004, Paris. France
- "Corneal refractive surgery applications of the Artemis"  
**Invited Speaker**, Clinical Research Symposium, ESCRS  
September 18-22, 2004, Paris. France
- "Blue-blocking IOLs"  
**Invited Speaker**, Symposium on 'New Biomaterials in Cataract and Refractive Surgery, ESCRS  
September 18-22, 2004, Paris. France

- "LASIK, phakic IOL and presbyopic surgery: Optimizing safety and efficacy using VHF digital ultrasound 3D Arc-Scanning"  
**Course Director**, ESCRS  
September 18-22, 2004, Paris. France
- "Presentation Discussion"  
**Invited Speaker**, Ultralink, ESCRS  
September 18-22, 2004, Paris. France
- "Customized Ablation with CRS Master and MEL-80"  
**Invited Speaker**, Annual Ophthalmic Congress  
September 11-13, 2004, Wuhan, China
- "In favour of: Wavefront LASIK is the way to go!"  
**Invited Speaker**, UKISCRS Satellite Meeting  
September 10, 2004, Chester, United Kingdom
- "Platforms for Custom Ablations"  
**Invited Speaker**, Visual Excellence Symposium (Carl Zeiss), 17<sup>th</sup> International Cataract Implant Microsurgery & Refractive Keratoplasty (ICIMRK) of the Asia Pacific Association of Cataract & Refractive Surgeons (APACRS) & 30<sup>th</sup> Indonesian Ophthalmologists Association (IOA), Annual Meeting  
June 12-15, 2004, Bali, Indonesia
- "Refractive Laser: How to Perform a Perfect Refractive Surgery"  
**Invited Speaker**, Visual Excellence Symposium (Carl Zeiss), 17<sup>th</sup> International Cataract Implant Microsurgery & Refractive Keratoplasty (ICIMRK) of the Asia Pacific Association of Cataract & Refractive Surgeons (APACRS) & 30<sup>th</sup> Indonesian Ophthalmologists Association (IOA), Annual Meeting  
June 12-15, 2004, Bali, Indonesia
- "Customized Custom LASIK with the Carl Zeiss Meditec CRS-Master"  
**Invited Speaker**, Korean Society of Cataract and Refractive Surgery  
June 12-13, 2004, Seoul, Korea
- "Clinical Applications of Artemis VHF Digital Ultrasound Scanning Technology"  
**Invited Speaker**, Korean Society of Cataract and Refractive Surgery  
June 12-13, 2004, Seoul, Korea
- "Guidelines for Refractive Surgery"  
**Invited Speaker**, Houses of Parliaments  
June 8, 2004, London, United Kingdom
- "Artemis 2 technology: Future development and applications in refractive surgery"  
**Invited Speaker**, Instituto Oftalmologico de Alicante  
May 31, 2004, Alicante, Spain
- "Understanding the Cornea after Refractive Surgery" in 'A Cataract, An Excimer & An Ophthalmologist'  
**Invited Speaker**, UKISCRS Satellite Meeting  
May 10, 2004, Manchester, United Kingdom
- "Mysteries of Refractive Surgery Revealed by Artemis 2: 3D Very-High-Frequency Digital Ultrasound Scanning Technology"  
**Course Director**, ASCRS Annual Meeting  
May 1-5, 2004, San Diego, California, USA
- "Pearls for Avoiding Ectasia after LASIK"  
**Course Faculty**, ASCRS Annual Meeting  
May 1-5, 2004, San Diego, California, USA

- "Customized LASIK Enhancement from Multiple Platforms"  
**Course Faculty**, ASCRS Annual Meeting  
May 1-5, 2004, San Diego, California, USA
- "Correcting the complications of LASIK using the CRS-Master and MEL-80"  
**Invited Speaker**, Carl Zeiss Wavefront Symposium, ASCRS Annual Meeting  
May 2, 2004, San Diego, California, USA
- "Live laser surgery with IntraLase and excimer laser"  
**Live Surgery**, Italian Congress of Refractive Surgery  
March 19, 2004, Milan, Italy
- "Laser and IOLs surgery"  
**Live Surgery**, Italian Congress of Refractive Surgery  
March 19, 2004, Milan, Italy
- "Unique Clinical Applications of the Artemis VHF digital ultrasound scanning technology in LASIK surgery"  
**Invited Speaker**, Italian Congress of Refractive Surgery  
March 19, 2004, Milan, Italy
- "Unique Clinical Applications of the Artemis VHF digital ultrasound scanning technology in phakic IOL surgery"  
**Invited Speaker**, Italian Congress of Refractive Surgery  
March 19, 2004, Milan, Italy
- "Customized Ablation: Highly Aberrated Eyes"  
**Invited Speaker**, International Congress of Wavefront  
February 21-23, 2004, Whistler, British Columbia, Canada
- "Industry Answers Questions from the Audience"  
**Invited Physician Speaker**, International Congress of Wavefront  
February 21-23, 2004, Whistler, British Columbia, Canada
- "Founders Workshop I"  
**Invited Speaker**, International Congress of Wavefront  
February 21-23, 2004, Whistler, British Columbia, Canada
- "Founders Workshop II"  
**Invited Speaker**, International Congress of Wavefront  
February 21-23, 2004, Whistler, British Columbia, Canada
- "Forum: Laser Eye Surgery and Public Concern"  
**Invited Speaker**, House of Commons  
February 10, 2004, London, England
- "Artemis VHF digital ultrasound technology in Phakic IOL Surgery"  
**Invited Speaker**, Dutch Symposium on Refractive Surgery  
February 7, 2004, Rotterdam, Netherlands
- "Artemis VHF digital ultrasound technology in Corneal Refractive surgery"  
**Invited Speaker**, Dutch Symposium on Refractive Surgery  
February 7, 2004, Rotterdam, Netherlands
- "Is Supervision possible with today's available microkeratome technology?"  
**Invited Speaker**, Symposium 'Supervision', ESCRS  
January 24, 2004, Barcelona, Spain
- **Invited Speaker**, 19<sup>th</sup> Congress of Asia-Pacific Academy of Ophthalmology, APAO  
November 29 - December 3, 2003, Bangkok, Thailand

- "Physical Principles and Diagnostic Aspects of Modern Ultrasonography of the Eye"  
**Course Director/Faculty**, American Academy of Ophthalmology Annual Meeting 2003  
November 15-18, 2003, Anaheim, California, USA
- "LASIK for Myopia"  
**Invited Moderator**, ESCRS  
September 6-10, 2003, Munich, Germany
- "Structural Complications of LASIK"  
**Invited Speaker**, ESCRS  
September 6-10, 2003, Munich, Germany
- "Overview of MEL-80 Clinical Results"  
**Invited Speaker**, MEL-80 Excimer Laser IDE Clinical Trial Investigators' Meeting  
September 4-5, 2003, Jena, Germany
- "Discussion of Surgical Procedure for Clinical Trial"  
**Invited Speaker**, MEL-80 Excimer Laser IDE Clinical Trial Investigators' Meeting  
September 4-5, 2003, Jena, Germany
- "Mysteries of Refractive Surgery Revealed by Artemis 2: 3D Very-High-Frequency Digital Ultrasound Scanning Technology"  
**Course Director**, ASCRS Annual Meeting  
April 12-16, 2003, San Francisco, California, USA
- "Clinical Corneal Topography for Refractive Surgeons"  
**Course Faculty**, ASCRS Annual Meeting  
April 12-16, 2003, San Francisco, California, USA
- "Refractive Wavefront"  
**Invited Moderator**, ASCRS Annual Meeting  
April 12-16, 2003, San Francisco, California, USA
- "Nightmares in Refractive Surgery: What to do when you can't do anything?"  
**Invited Moderator**, Alicante Refractiva  
March 13-15, 2003, Alicante, Spain
- "What to do when you can't do anything in Refractive Surgery?" (Session: "Nightmares in Refractive Surgery: What to do when you can't do anything?")  
**Invited Speaker**, Alicante Refractiva  
March 13-15, 2003, Alicante, Spain
- "Ectasia post LASIK: What are the chances that I will see this in my practice? How do I reduce this?" (Session: "Nightmares in Refractive Surgery: What to do when you can't do anything?")  
**Invited Speaker**, Alicante Refractiva  
March 13-15, 2003, Alicante, Spain
- "Ablation Profiles: Optimization versus customization" (Session: "Supervision and Aberrations: How to improve the quality of vision?")  
**Invited Speaker**, Alicante Refractiva  
March 13-15, 2003, Alicante, Spain
- "White to White..." (Session: "New Trends in Refractive Surgery")  
**Invited Speaker**, Alicante Refractiva  
March 13-15, 2003, Alicante, Spain
- "Focus on Physics: Artemis 2 VHF arc-scan: Maximizing the efficacy and safety of anterior segment surgery"  
**Invited Speaker**, American College of Eye Surgeons Annual Meeting  
February, 15<sup>th</sup>, 2003, Orlando, Florida, USA

- "Eye Tracking Systems/Refractive Surgery Complications I"  
**Invited Moderator**, ESCRS  
February 7-9, 2003, Rome, Italy
- "CRS-Master - The first fully integrated platform for corneal refractive surgery"  
**Invited Speaker**, Carl Zeiss Meditec Wavefront-Symposium, ESCRS  
February 8, 2003, Rome, Italy
- "LASEK technique: Carl Zeiss Meditec MEL80"  
**Live surgery**, UPDATE on Refractive Surgery Course, University of Mainz  
November 24, 2002, Mainz, Germany
- "La realidad de Cirugía refractiva"  
**Invited Faculty**, Joint Meeting of the American Academy of Ophthalmology and the Pan-American Association of Ophthalmology  
October 22, 2002, Orlando, Florida, USA
- "Surgeon controlled custom ablation: The Carl Zeiss Meditec CRS-Master"  
**Invited Speaker**, Sub-Specialty Day, American Academy of Ophthalmology, Annual Meeting  
October 18, 2002, Orlando, Florida, USA
- "Advances in Refractive Surgery"  
**Invited Moderator**, International Society of Refractive Surgery, Annual Meeting  
October 18, 2002, Orlando, Florida, USA
- "Flap dimensions with modern microkeratomes: the importance of the standard deviation"  
**Invited Speaker**, International Society of Refractive Surgery, Symposium at the ESCRS, Annual Congress  
September 10, 2002, Nice, France
- "Mysteries of Refractive Surgery Revealed by 3D Very-High-Frequency Digital Ultrasound Scanning"  
**Course Director**, European Society of Cataract and Refractive Surgery  
September 10, 2002, Nice, France
- "CRS-Master - The new platform for refractive surgery"  
**Invited Speaker**, Carl Zeiss Meditec Wavefront-Symposium, ESCRS  
September 10, 2002, Nice, France
- "Phakic IOL Posterior Chamber"  
**Invited Moderator**, European Society of Cataract and Refractive Surgery  
September 9, 2002, Nice, France
- "VHF digital ultrasound as the slit-lamp of the 21<sup>st</sup> century"  
**Invited Speaker**, Research Symposium, European Society of Cataract and Refractive Surgery  
September 7 2002, Nice, France
- "Pearls on performing the perfect LASIK procedure: Should we be centering spherocylindrical ablations on the pupil?"  
**Invited Speaker**, Symposium on Advanced LASIK  
August 28, 2002, Bangkok, Thailand
- "Custom Ablation Design: Developing the CRS-Master workstation"  
**Invited Speaker**, Eye Center Affiliated Second Hospital College of Medicine Zhejiang University  
July 20, 2002, Hangzhou, China
- "Corneal refractive surgery: New diagnostic techniques and custom treatment modalities"  
**Invited Speaker**, Hospital  
July 17, 2002, Bangkok, Thailand

- "LASIK custom ablation – surgical planning and technique using the WASCA and MEL70 excimer laser"  
**Live Surgery**, Vibhavadi General Hospital  
July 17, 2002, Bangkok, Thailand
- "Mysteries of refractive surgery revealed by 3D Very-High-Frequency Digital Ultrasound Scanning"  
**Course Director**, American Society of Cataract and Refractive Surgery Annual Meeting  
June 4, 2002, Philadelphia, PA, USA
- "CRS-Master: The advanced platform for customized ablation"  
**Invited Speaker**, Asclepion Symposium on Refractive Surgery  
June 2, 2002, Philadelphia, PA, USA
- "Orbscan Analysis: Advanced Applications" in "Use of Orbscan Anterior Segment Analysis in Clinical Practise"  
**Invited Faculty**, Orbscan Course, American Academy of Ophthalmology  
November 13, 2001, New Orleans, LA, USA
- "PRK, LASEK and Intra-corneal ring Segments"  
**Invited Faculty**, Sub-Specialty Day, American Academy of Ophthalmology  
November 12, 2001, New Orleans, LA, USA
- Debate: "Premium / Lower Pricing in LASIK is best for the health of ophthalmology"  
**Invited Speaker**, AAO Symposium, Refractive Surgery Special Interest Group,  
American Academy of Ophthalmology  
November 12, 2001, New Orleans, LA, USA
- **Invited Speaker**, Staar Surgical Symposium, American Academy of Ophthalmology  
November 11-14, 2001, New Orleans, LA, USA
- "Orbscan II: Part I. Instrument Reproducibility, Part II. Biomechanical Analysis for Planning Retreatments"  
**Invited Speaker**, Bausch & Lomb Innovators' Lecture Series, American Academy of Ophthalmology  
November 11, 2001, New Orleans, LA, USA
- "PRK and Intracorneal Implants" in "Refractive Surgery 2001: New Options and New Horizons"  
**Invited Panelist**, American Academy of Ophthalmology  
November 9, 2001, New Orleans, LA, USA
- "Live Refractive Surgery: Hyperopic LASIK"  
**Invited Surgeon/Faculty**, 3rd International Forum on Refractive Surgery  
October 20, 2001, Milan, Italy
- "Unique applications of the Artemis VHF digital ultrasound arc- scanner in refractive surgery"  
**Invited Faculty**, 3rd International Forum on Refractive Surgery  
October 20, 2001, Milan, Italy
- "Anterior segment biometry for planning phakic IOL implantation"  
**Invited Faculty**, 3rd International Forum on Refractive Surgery  
October 20, 2001, Milan, Italy
- "Chirurgie réfractive et publicité (Refractive surgery and advertising)"  
**Invited Faculty**, Refractiva 2001  
September 22, 2001, Paris, France
- "Limites de l'ablation custom-wavefront" (The Limits of Wavefront Customized Ablations)"  
**Invited Faculty**, Refractiva 2001  
September 22, 2001, Paris, France

- "Live Refractive Surgery: ZYOPTICS™"  
**Invited Surgeon/Faculty**, European Society of Cataract and Refractive Surgery, Annual Meeting  
September 1-4, 2001, Amsterdam, Netherlands
- "Live Refractive Surgery: ZYOPTICS™"  
**Invited Surgeon/Faculty**, European Society of Cataract and Refractive Surgery, Annual Meeting  
September 1-4, 2001, Amsterdam, Netherlands
- "I: Riesgo de ectasia en LASIK: modelo matemático para generar nuevos criterios de seguridad"  
"II: Desarrollo "flaps" consistentemente mas delgados como una medida de seguridad"  
"III: Estudio Prospectivo al Azar Simple Ciego: Técnica Clásica de PRK vs. Flap Epitelial PRK"  
"IV: Orbscan : Analisis Biomecánico y Epitelial"  
"V: Reproducibilidad Orbscan II en 3D"  
**Guest Professor**, Centro Mexicano de Cirugia Refractiva &  
International Society of Refractive Surgery, Annual Meeting  
July 4-8, 2001, Cancun, Mexico
- "Complicaciones en LASIK"  
**Invited Faculty**, International Society of Refractive Surgery, GLORY Refractive Surgery Course  
July 4, 2001, Cancun, Mexico
- "Excimer laser surgery for the correction of refractive errors"  
**Guest Lecturer**, MENSA Canada Society, Annual Meeting  
June 27, 2001, Vancouver, British Columbia, Canada
- "Three-dimensional precision of the Orbscan II; II: Biomechanical analysis of the cornea using the  
Orbscan II", in ' Use of Orbscan Corneal Elevation Maps in Clinical Practice'  
**Invited Faculty**, American Society of Cataract and Refractive Surgery, Annual Meeting  
April 28 - May 2, 2001, San Diego, USA
- "LASIK Outcomes in 20,000 eyes using the Orbscan II, Hansatome and Technolas 217C"  
**Guest Lecturer**, Innovators Lecture Series, B&L, American Society of Cataract and Refractive  
Surgery, Annual Meeting  
April 28 - May 2, 2001, San Diego, USA
- "Mysteries of corneal refractive surgery revealed by 3D very high-frequency ultrasound scanning"  
**Course Director/Faculty**, American Society of Cataract and Refractive Surgery, Annual Meeting  
April 28 - May 2, 2001, San Diego, USA
- "Very High Frequency Ultrasound: Instrumentation and Signal Analysis "  
**Course Director/Faculty**, Ophthalmologic and High-frequency Ultrasound Categorical Course,  
American Institute of Ultrasound in Medicine, Annual Meeting  
March 11-14, 2001, Orlando, Florida, USA
- "Que estamos haciendo mal? Misterios de la cirugia refractive revelados por ultrasonido de alta  
frecuencia"  
**Guest Professor**, LXII National Medical Congress and Costa Rican Ophthalmological Society,  
Annual Meeting,  
December 1, 2000, San José, Costa Rica
- "Very high frequency ultrasound: Clinical applications and technological update"  
**Invited Lecturer**, Netherlands Intra-ocular Implant and Refractive Surgery Society (Netherlands  
Ophthalmological Society), Annual Meeting,  
November 18, 2000, Hertogenbosch, Netherlands
- "Management of optical complications of refractive surgery"  
**Invited Lecturer**, Refractive Surgery Workgroup (Netherlands Ophthalmological Society), Annual  
Meeting  
November 17, 2000, Hertogenbosch, Netherlands



- "Mysteries of corneal refractive surgery revealed by 3D very high-frequency ultrasound scanning"  
**Course Director/Faculty**, American Society of Cataract and Refractive Surgery, Annual Meeting  
May 22, 2000, Boston, MA, USA
- "Ultrasonographie de tres haute frequence de l'oeil"  
**Invited Lecturer**, Societe Francaise d'Ophtalmologie, Annual Meeting  
May 10, 2000, Paris, France
- "Applications of High-Frequency Ultrasound: Intravascular Imaging, Blood-Flow, Dermatology, Ophthalmology and Others" **Course Director/Faculty**, Ophthalmologic and High-frequency Ultrasound Categorical Course, American Institute of Ultrasound in Medicine, Annual Meeting  
April 2, 2000, San Francisco, FL, USA
- "Very High-frequency Ultrasound Digital Signal Processing in Refractive Surgery"  
**Course Director/Faculty**, Ophthalmologic and High-frequency Ultrasound Categorical Course, American Institute of Ultrasound in Medicine, Annual Meeting  
April 2, 2000, San Francisco, FL, USA
- "Ultrasonographie de haute frequence en chirurgie refractive" (High-frequency ultrasonography in refractive surgery)  
**Invited Lecturer**, DIU Chirurgie Refractive et Phacoemulsification, Hotel Dieu  
January 21, 2000, Paris, France
- "Echographie de haute frequence en chirurgie refractive de la cornée et du segment anteieur" (High-frequency ultrasound echography of the cornea and the anterior segment)  
**Invited Lecturer**, Chirurgie Refractive Avancée en Direct, Journee micro-chirurgicale de l'hopital Foch, Hopital Americain  
January 16, 2000, Paris, France
- "Ultrasonographie de haute frequence en chirurgie refractive" (High-frequency ultrasonography in refractive surgery)  
**Invited Lecturer**, Jounee Des XV-XX, Salons Hoche  
January 15, 2000, Paris, France
- "Management of Irregular Astigmatism Following Excimer Laser Surgery of the Cornea"  
**Course Director/Faculty**, American Academy of Ophthalmology, Annual Meeting  
October 26, 1999, Orlando, FL, USA
- "Estudios Ultrasonicos sobre el epitelio, el flap el estroma residual y la seguridad del LASIK"  
(Ultrasound studies of the epithelium, the flap, the residual stroma and the safety of LASIK)  
**Invited Lecturer**, 3a Reunion Cientifica de Cirugia Refractiva y Catarata del CEOVAL,  
May 20-22, 1999, Aruba, Venezuela
- "Management of Irregular Astigmatism Following Excimer Laser Surgery of the Cornea"  
**Course Director/Faculty**, American Society of Cataract and Refractive Surgery, Annual Meeting  
April 13, 1999, Seattle, Washington, USA
- "Very High-frequency ultrasound – Clinical Applications and Technological Update"  
**Course Director/Faculty**, Ophthalmologic and High-frequency Ultrasound Categorical Course, American Institute of Ultrasound in Medicine, Annual Meeting  
March 16, 1999, San Antonio, Texas, USA
- "Management of Irregular Astigmatism Following Excimer Laser Surgery of the Cornea"  
**Course Director/Faculty**, American Academy of Ophthalmology, Annual Meeting  
November 11, 1998, New Orleans, Louisiana, USA
- "High-frequency Ultrasound and the Future of Refractive Surgery"  
**Symposium Chairman/Lecturer**, First International Symposium on High-frequency Ultrasound in Refractive Surgery, International Society of Eye Research  
July 30, 1998, Paris, France

- "Utilidad del Ultrasonido de Alta-Frecuencia en Cirugia Refractiva" (High-frequency ultrasound in Refractive Surgery)  
**Invited Lecturer**, 2a Reunion Cientifica de Cirugia Refractiva y Catarata del CEOVAL, May 16th, 1998, Valencia, Venezuela
- "High-frequency Ultrasound Applications in Medicine"  
**Course Director/Faculty**, Ophthalmologic and High-frequency Ultrasound Categorical Course, American Institute of Ultrasound in Medicine, Annual Meeting, March 23, 1998, San Diego, California, USA
- "Fisica del Ultrasonido" (Ultrasound Physics) & "Avances en Diferenciación Tisular" (Advances in Tissue Characterization) & "Utilidad del Ultrasonido de Alta-Frecuencia en Cirugia Refractiva" (High-frequency ultrasound in Refractive Surgery)  
**Invited Lecturer**, XIX Curso de Actualización, Fundación Oftalmológica Nacional February 12, 1998, Bogotá, Colombia
- "Utilidad del Ultrasonido de Alta-Frecuencia en Cirugia Refractiva" (High-frequency ultrasound in Refractive Surgery)  
**Invited Lecturer**, Clinica Oftalmologica de Cali September 9, 1997, Cali, Colombia
- "Utilidad del Ultrasonido de Alta-Frecuencia en Cirugia Refractiva" (High-frequency ultrasound in Refractive Surgery)  
**Invited Lecturer**, Clinica Barraquer August 27, 1997, Bogotá, Colombia
- "Utilidad del Ultrasonido de Alta-Frecuencia en Cirugia Refractiva" (High-frequency ultrasound in Refractive Surgery)  
**Invited Lecturer**, Instituto Zaldivar August 7, 1997, Mendoza, Argentina
- "High-frequency ultrasound examination of the cornea - unique diagnostic modalities"  
**Faculty**, Categorical Course, American Institute of Ultrasound in Medicine March 24, 1997, San Diego, California, USA
- "Microanatomic evaluation of the cornea after excimer laser keratectomy by 3-D high-frequency ultrasound Corneal Pachymetric Topography"  
**Invited Lecturer**, Symposium on Effects of Excimer Laser on the Cornea, International Society of Eye Research November 13-18, 1994, New Delhi, India
- "La utilidad del ultrasonido de alta frecuencia en el examen paquimétrico tridimensional del epitelio corneal"  
(The use of high-frequency ultrasound in three-dimensional pachymetric examination of the cornea)  
**Faculty**, for Course Module in Research "Excimer and other lasers in refractive and corneal surgery", Facultad de Medicina, Universidad Autonoma de Barcelona September 10-11, 1993, Barcelona, Spain
- "Applications of High-Frequency Ultrasound Signal Processing in Ophthalmology"  
**Invited Lecturer**, *Special Interdisciplinary Lecture Series* Department of Theoretical Physics, The Clarendon Laboratory, University of Oxford May 24, 1993, Oxford, England
- "L'examen ophthalmologique à l'aide d'ultrasons. Pachymetrie aux ultrasons à haute frequence digitalisés et caracterisation du tissu par analyse informatique"  
(*"Ophthalmic ultrasound examination. High-frequency digital ultrasound pachymetry and tissue characterization using signal processing techniques"*)  
**Invited Lecturer**, Club de Travail, d'Etudes et de Recherches en Echographie en Ophtalmologie (CTEREO), Annual Meeting

May 16, 1993, Paris, France

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**L. SELECTED SCIENTIFIC PAPER PRESENTATIONS / PUBLISHED ABSTRACTS / POSTER / E-POSTER / FILM PRESENTATION**

**Corneal Sensation after Small Incision Lenticule Extraction Compared to Previous LASIK Studies**

American Academy of Ophthalmology  
October 15-19, 2013, New Orleans, United States  
***Dan Z. Reinstein, Marine Gobbe, Elena Bartoli, Timothy J. Archer***

**Computer-Aided Diagnosis of Keratoconus Based on Ultrasound Layered Pachymetric Map Analysis**

American Academy of Ophthalmology  
October 15-19, 2013, New Orleans, United States  
***Ronald H. Silverman, Raksha Urs, Timothy J. Archer, Marine Gobbe, Arindam Roy Choudhury, Dan Z Reinstein***

**Postoperative Relative Total Tensile Strength After Small Incision Lenticule Extraction for Moderate Myopia Compared to Matched LASIK Controls**

International Society of Refractive Surgery Annual Meeting / American Academy of Ophthalmology  
October 15-19, 2013, New Orleans, United States  
***Dan Z. Reinstein, Timothy J. Archer, J. Bradley Randleman***

**Outcomes including Contrast Sensitivity of high Myopic Small Incision Lenticule Extraction (SMILE) compared to Matched LASIK Controls**

International Society of Refractive Surgery Annual Meeting / American Academy of Ophthalmology  
October 15-19, 2013, New Orleans, United States  
***Dan Z. Reinstein, Glenn I. Carp, Timothy J. Archer, Marine Gobbe***

**Mathematical model to compare the relative tensile strength of the cornea after PRK, LASIK and small incision lenticule extraction (SMILE)**

European Society of Cataract and Refractive Surgery  
October 4-9, 2013, Amsterdam, The Netherlands  
***Dan Z. Reinstein, Timothy J. Archer, J. Bradley Randleman***

**Improved effectiveness of trans-epithelial phototherapeutic keratectomy versus topography-guided ablation degraded by epithelial compensation on irregular stromal surfaces**

European Society of Cataract and Refractive Surgery  
October 4-9, 2013, Amsterdam, The Netherlands  
***Glenn I. Carp, Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Bilateral LASIK procedure time using the VisuMax femtosecond laser and MEL80 excimer laser: comparison of two experienced surgeons**

European Society of Cataract and Refractive Surgery  
October 4-9, 2013, Amsterdam, The Netherlands  
***Timothy J. Archer, Dan Z. Reinstein, Glenn I. Carp, Marine Gobbe***

**Corneal Sensation after small incision lenticule extraction (SMILE) compared to previous LASIK studies'**

European Society of Cataract and Refractive Surgery  
October 4-9, 2013, Amsterdam, The Netherlands

***Dan Z. Reinstein, Marine Gobbe, Elena Bartoli, Timothy J. Archer***

**Learning curve for small incision lenticule extraction (SMILE) of a novice corneal laser refractive surgeon evaluated by procedure time for consecutive cases**

European Society of Cataract and Refractive Surgery  
October 4-9, 2013, Amsterdam, The Netherlands

***Kishore R. Pradhan, Dan Z. Reinstein, Timothy J. Archer, Glenn I. Carp, Marine Gobbe***

**Femtosecond Laser Assisted Keyhole Endokeratophakia**

European Society of Cataract and Refractive Surgery  
October 4-9, 2013, Amsterdam, The Netherlands

***Kishore R. Pradhan, Dan Z. Reinstein, Reeta Gurung, Timothy J. Archer, Glenn I. Carp, Marine Gobbe***

**Three months outcomes including contrast sensitivity of moderate and high myopic small incision lenticule extraction (SMILE) compared to matched LASIK controls**

European Society of Cataract and Refractive Surgery  
October 4-9, 2013, Amsterdam, The Netherlands

***Glenn I. Carp, Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Mathematical Model to Compare Relative Tensile Strength of Cornea after Lasik, PRK and Smile**

American Society of Cataract and Refractive Surgery  
April 19-23, 2013, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer***

**Film presentation on 'Near, intermediate and distal visual acuity and visual quality in corneal presbyopic Lasik based on modification of spherical aberration'**

American Society of Cataract and Refractive Surgery  
April 19-23, 2013, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Transepithelial Phototherapeutic Keratectomy as powerful tool for repair of Corneal Refractive Surgical Complications**

American Society of Cataract and Refractive Surgery  
April 19-23, 2013, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Comparing Early Visual Recovery and Aberrations in ReLEx with Lasik**

American Academy of Ophthalmology  
November 9-13, 2012, Chicago, USA

***Dan Z. Reinstein, Glenn I. Carp, Kishore R. Pradhan, Timothy J. Archer, Marine Gobbe***

**Comparing the predictability of Refractive Astigmatism Correction by LASIK in Eyes with Lowe and High Ocular Residual Astigmatism**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Timothy J. Archer, Dan Z. Reinstein, Marine Gobbe***

**Transepithelial phototherapeutic keratectomy as a powerful tool for repair of corneal refractive surgical complications**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**LASIK for the correction of presbyopia in emmetropic patients using aspheric ablation profiles and a mico-monovision protocol with the Carl Zeiss Meditec MEL80 and VisuMax'**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Glenn I. Carp, Dan Z. Reinstein, Marine Gobbe, Timothy J. Archer***

**Distance Corrected Near Vision and Contrast Sensitivity in Presbyopic Patients after Laser Blended Vision: The Effect of Spherical Aberration and Total Higher Order Aberrations**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Marine Gobbe, Timothy J. Archer, Dan Z. Reinstein***

**Comparison between changes in front surface corneal aberrations and changes in whole eye ocular aberrations after LASIK**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Marine Gobbe, Dan Z. Reinstein, Timothy J. Archer***

**Comparison of early visual recovery and biomechanical influence on higher order aberrations between Small Incision Lenticule Extraction (SMILE) and femtosecond LASIK**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Dan Z. Reinstein, Kishore R. Pradhan, Glenn I. Carp, Timothy J. Archer, Marine Gobbe***

**SMILE Lenticule Thickness Readout of the VisuMax Femtosecond Laser compared to Artemis VHF Digital Ultrasound Stromal Measurements**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Timothy J. Archer, Dan Z. Reinstein, Marine Gobbe***

**Creation of flaps using the VisuMax femtosecond laser assisted by Artemis VHF digital ultrasound epithelial thickness measurement for retreatment after previous PRK due to thin corneas**

European Society of Cataract and Refractive Surgery  
September 8-12, 2012, Milan, Italy

***Glenn I. Carp, Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Spherical Aberration change as a function of pupil size: a comparison between Small Incision Lenticule Extraction [SMILE] and non-linear aspheric LASIK in moderate to high myopia**

Association for Research in Vision and Ophthalmology  
May 5-10, 2012, Fort Lauderdale, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Effect of Spherical Aberration and Total Higher Order Aberrations on Distance Corrected Near Vision and Contrast Sensitivity in Presbyopic Patients after Laser Blended Vision**

Association for Research in Vision and Ophthalmology  
May 5-10, 2012, Fort Lauderdale, USA

***Timothy J. Archer, Dan Z. Reinstein, Marine Gobbe***

**Masking Effect of the Epithelium on Ocular Wavefront Aberrations in the Virgin Cornea and after Myopic Lasik**

American Society of Cataract and Refractive Surgery  
April 21-24, 2012, Chicago, USA

***Marine Gobbe, Dan Z. Reinstein, Timothy J. Archer***

**Influence of Epithelial Thickness Profile Changes on Topography- or Wavefront-Guided Custom Ablation for Refractive Surgery Complications**

American Society of Cataract and Refractive Surgery  
April 21-24, 2012, Chicago, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Stereoacuity Safety and Efficacy after Corneal Presbyopic LASIK in Myopic, Hyperopic and Emmetropic Patients**

American Society of Cataract and Refractive Surgery  
April 21-24, 2012, Chicago, USA

***Dan Z. Reinstein, Marine Gobbe, Timothy J. Archer***

**Laser Blended Vision: Corneal Presbyopia Correction by Control of Spherical Aberration**

American Academy of Ophthalmology  
October 20-25, 2011, Orlando, United States of America

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Impact of Epithelial Thickness Profile Changes on Topography- or Wavefront-Guided Custom Ablation**

American Academy of Ophthalmology  
October 20-25, 2011, Orlando, United States of America

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Accuracy of refraction measurements with the WASCA aberrometer in myopic and hyperopic astigmatism evaluated by calculating the predicted accuracy of LASIK had the WASCA refraction been used instead of the manifest refraction**

European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria

***Merce Morral, Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Clinical Evaluation of the Effect of Adding Sulcus Diameter to ICL Sizing on the Predictability of Postop Vault Height**

European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria

***Timothy J. Archer, Carlo F. Lovisolo, Marine Gobbe, Dan Z. Reinstein***

**Impact of epithelial thickness profile changes on topography- or wavefront-guided custom ablation for refractive surgery complications**

European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Comparison of an Experienced Surgeon with a fellowship trained surgeon: Visual Outcomes of the first 200 consecutive myopic LASIK procedures with flaps created using the VisuMax Femtosecond Laser'**

European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria

***Glenn I. Carp, Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Comparison between stromal and corneal topography in the normal cornea**

European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria

***Marine Gobbe, Dan Z. Reinstein, Timothy J. Archer***

**Stereoacuity after corneal presbyopic LASIK in myopic, hyperopic and emmetropic patients**

European Society of Cataract and Refractive Surgery  
September 16-20, 2011, Vienna, Austria

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Comparison between stromal and corneal elevation topography in the normal cornea**

Association for Research in Vision and Ophthalmology  
May 1-5, 2001, Fort Lauderdale, USA

***Marine Gobbe, Dan Z. Reinstein, Timothy J. Archer***

**Spherical aberration change from 4.50 to 6.50 mm analysis zones comparing Munnerlyn, aspheric and a new non-linear aspheric ablation profile in high myopia**

Association for Research in Vision and Ophthalmology  
May 1-5, 2001, Fort Lauderdale, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Changes in epithelial thickness profile 24 hours and longitudinally for 1 year after myopic LASIK**

Association for Research in Vision and Ophthalmology  
May 1-5, 2001, Fort Lauderdale, USA

***Timothy J. Archer, Dan Z. Reinstein, Marine Gobbe***

**Predictability of Post-op Copolymer Phakic IOL Vault Height: Clinical Evaluation of Effect of Adding Sulcus Diameter on Sizing**

American Society of Cataract and Refractive Surgery  
March 25-28, 2011, San Diego, USA

***Dan Z. Reinstein, Carlo F. Lovisolo, Timothy J. Archer, Marine Gobbe***

**Corneal Presbyopic LASIK in Emmetropic Patients: Safety, Efficacy, Contrast Sensitivity and Stereoacuity**

American Society of Cataract and Refractive Surgery  
March 25-28, 2011, San Diego, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Presbyopia Correction with Wavefront-guided Monofocal Ablation and Micro-monovision, IOL-Implantation, and Monovision: Two-Year Results'**

American Society of Cataract and Refractive Surgery  
March 25-28, 2011, San Diego, USA

***S. Lee, Dan Z. Reinstein, S. Lee, S. Kim, H. Lee, M. Kim***

**Clinical evaluation of the effect of adding sulcus diameter to implantable contact lens sizing on the predictability of postop vault height**

American Academy of Ophthalmology  
October 15-19, 2010, Chicago, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**VHF Digital Ultrasound, intraoperative handheld ultrasound and OCT: Comparing residual stromal bed thickness measurement accuracy**

American Academy of Ophthalmology  
October 15-19, 2010, Chicago, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Safety of Hyperopic LASIK above +4.00 D is increased by monitoring epithelial thickness profiles**

American Academy of Ophthalmology  
October 15-19, 2010, Chicago, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Comparison of residual stromal bed thickness measurement between Artemis VHF Digital Ultrasound, Sonogage intraoperative handheld ultrasound and Visante OCT**

European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Epithelial thickness mapping to improve the safety of hyperopic LASIK**

European Society of Cataract and Refractive Surgery  
September 3-7, 2010, Paris, France

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Clinical Outcomes of LASIK for High Hyperopia: +4.00 to +7.50**

World Ophthalmology Congress  
June 5-8, 2010, Berlin, Germany

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Corneal Vertex Versus Entrance Pupil Centration for Hyperopic Corneal Ablations**

World Ophthalmology Congress  
June 5-8, 2010, Berlin, Germany

***Timothy J. Archer, Dan Z. Reinstein, Marine Gobbe***

**Quality of Vision after Presbyopic LASIK: Contrast Sensitivity and Stereo Acuity**

World Ophthalmology Congress  
June 5-8, 2010, Berlin, Germany

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Laser Blended Vision for Presbyopia: One-Year Outcomes, Contrast Sensitivity and Stereo Acuity for Myopia to -8.50 D, Hyperopia to +5.75 D and Emmetropia**

American Society of Cataract and Refractive Surgery  
April 9-14, 2010, Boston, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Approaches to Presbyopia Correction: Comparative Analysis of Wavefront-Guided Monofocal Ablation, Multifocal IOLs and Monovision: Two-Year Results**

American Society of Cataract and Refractive Surgery  
April 9-14, 2010, Boston, USA

***Sven Lee, Dan Z. Reinstein, Eckhard Schroeder, Honil Lee, Muyan Kim***

**Wavefront Correction of High Refractive Errors with Aspheric Shotfiles to Increase Depth-of-Field ASA LASEK: Three-Year Results'**

American Society of Cataract and Refractive Surgery  
April 9-14, 2010, Boston, USA

***Sven Lee, Eckhard Schroeder, Dan Z. Reinstein, Muyan Kim, Honil Lee***



**One- and Two-Year Clinical Outcomes of LASIK for High Hyperopia**

American Society of Cataract and Refractive Surgery  
April 9-14, 2010, Boston, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Stability of LASIK in Topographic Suspect Keratoconus Confirmed Nonkeratoconic by Epithelial Thickness Mapping: Two Years Follow-up**

American Academy of Ophthalmology, Subspecialty Day  
October 23-27, 2009, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Outcomes Including Stereo Acuity of Presbyopic Micro-Monovision LASIK for Myopia, Hyperopia and Emmetropia'**

American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Stability of LASIK in Topographic Suspect Keratoconus Confirmed Nonkeratoconic by Epithelial Thickness Mapping: Two Years Follow-up**

American Academy of Ophthalmology  
October 23-27, 2009, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Outcomes Including Stereo Acuity of Presbyopic Micro-Monovision LASIK for Myopia, Hyperopia and Emmetropia'**

European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Stability of LASIK in corneas with topographic suspect keratoconus confirmed non-keratoconic by epithelial thickness mapping: 2 years follow-up**

European Society of Cataract and Refractive Surgery  
September 12-16, 2009, Barcelona, Spain

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Treatment of High Myopia and Hyperopia with Wavefront-Guided Advanced Surface Ablation Increasing the Depth-of-Field with Aspheric Shotfiles: Three-Year Follow-up**

American Society of Cataract and Refractive Surgery  
April 2-7, 2009, San Francisco, USA

***Sven Lee, Dan Z. Reinstein, Sungdae Lee, Muyan Kim, Honil Lee, Eckhard Schroeder***

**Stability of LASIK in Corneas Confirmed as Nonkeratoconic by Epithelial Thickness Mapping: Two-Year Follow-up**

American Society of Cataract and Refractive Surgery  
April 2-7, 2009, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Presbyopic LASIK by micro-monovision using increased depth of field from non-linear aspheric ablation profiles – Film presentation**

American Society of Cataract and Refractive Surgery  
April 2-7, 2009, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Outcomes of Nonlinear Aspheric Presbyopic Micro-monovision LASIK for Myopia, Hyperopia, and Emmetropia**

American Society of Cataract and Refractive Surgery  
April 2-7, 2009, San Francisco, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Creating Micro-monovision in the Non-dominant Eye for the Correction of Presbyopia by Altering Zernike Polynomials: Eighteen-Month Follow-up**

American Society of Cataract and Refractive Surgery  
April 2-7, 2009, San Francisco, USA

***Sven Lee, Dan Z. Reinstein, Eckhard Schroeder, Honil Lee, Muyan Kim, Sungdae Lee***

**Further Verification of the 'No space – No cells' concept: New information after analysis of a Ridley Lens that survived 57 years in a patient's eye**

European Society of Cataract and Refractive Surgery, 13<sup>th</sup> Winter Meeting  
February 6-8, 2009, Rome, Italy

***Andreas F. Borkenstein, David J. Apple, Dan Z. Reinstein, William Ayliffe, B. Zaugg, E. Assia, G. Kleinmann, G. Auffarth***

**Contrast Sensitivity and Higher-Order Aberration Changes in LASIK for Myopia From -8.00 to -15.00 D Using a New Nonlinear Aspheric Profile**

American Academy of Ophthalmology  
November 8-11, 2008, Atlanta, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Stability of LASIK in Corneas with Forme Fruste or Suspect Keratoconus, Where Keratoconus Was Excluded by Epithelial Thickness Mapping**

American Academy of Ophthalmology  
November 8-11, 2008, Atlanta, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Outcomes of presbyopic micro-monovision LASIK for myopia, hyperopia and emmetropia**

American Academy of Ophthalmology Subspecialty Day  
November 7-8, 2008, Atlanta, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Centration of Hyperopic Corneal Ablations: Corneal Vertex vs. Pupil Center**

American Academy of Ophthalmology Subspecialty Day  
November 7-8, 2008, Atlanta, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Outcomes of presbyopic micro-monovision LASIK for myopia, hyperopia and emmetropia**

European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Treatment of high myopia and hyperopia with wavefront-guided advanced-surface-ablation (ASA-LASEK). Increasing the depth-of-field with aspheric-shoffiles: 2 year-follow-up**

European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany

***Sven Lee, M. Kim, H. Lee, Eckhard Schroeder, Dan Z. Reinstein***

**Creating monovision on the non-dominant eye for the correction of presbyopia by altering Zernike Polynomials. A new approach: 1 year follow-up**

European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany

***Sven Lee, M. Kim, H. Lee, Eckhard Schroeder, Dan Z. Reinstein***

**Stability of LASIK in Corneas with Topographic Suspect Keratoconus confirmed as Nonkeratoconic by Epithelial Thickness Mapping**

European Society of Cataract and Refractive Surgeons  
September 13-17, 2008, Berlin, Germany

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Warum LASIK mit Femtolaser die beste Technik ist**

Swiss Society of Ophthalmology  
September 12, 2008, Interlaken, Switzerland

***Christian de Courten, Dan Z. Reinstein***

**Stability of LASIK in Corneas with Topographic Suspect Keratoconus confirmed as Nonkeratoconic by Epithelial Thickness Mapping**

American Society of Cataract and Refractive Surgery  
April 4-9, 2008, Chicago, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Wavefront-Guided Correction of Presbyopia, Contrast Sensitivity, and Mesopic Contrast Sensitivity with Advanced Surface Ablation: Four-Year Follow-Up**

American Society of Cataract and Refractive Surgery  
April 4-9, 2008, Chicago, USA

***Sven Lee, Dan Z. Reinstein***

**Design of New Aspheric Ablation Profiles with Modified Zernike Polynomials to Improve Presbyopia and Night Vision Problems**

American Society of Cataract and Refractive Surgery  
April 4-9, 2008, Chicago, USA

***Sven Lee, Dan Z. Reinstein***

**Film presentation: Assessment of VisuMax Femtosecond Laser Flap Thickness Accuracy and Precision by 3-D VHF Digital Ultrasound Scanning**

American Society of Cataract and Refractive Surgery  
April 4-9, 2008, Chicago, USA

***Dan Z. Reinstein, Glenn I. Carp, Timothy J. Archer***

**Assessment of VisuMax Femtosecond Laser Accuracy and Precision of Flap Thickness and Centration**

American Society of Cataract and Refractive Surgery  
April 4-9, 2008, Chicago, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Assessment of VisuMax Femtosecond Laser Flap Thickness Accuracy and Precision by 3-D VHF Digital Ultrasound Scanning**

American Academy of Ophthalmology Annual Meeting  
November 10-13, 2007, New Orleans, USA

***Dan Z. Reinstein, Timothy J. Archer***

**Exclusion of keratoconus initially diagnosed by Orbscan using epithelial and stromal layer thickness mapping**

American Academy of Ophthalmology Annual Meeting  
November 10-13, 2007, New Orleans, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe, Ronald H. Silverman, D. Jackson Coleman***

**Stability of LASIK performed on topographic suspect keratoconus in which epithelial thickness profiles excluded keratoconus**

American Academy of Ophthalmology Subspecialty Day  
November 9-10, 2007, New Orleans, USA

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Micro-monovision presbyopic LASIK for the treatment of presbyopia with myopia, hyperopia, and emmetropia**

American Academy of Ophthalmology Subspecialty Day  
November 9-10, 2007, New Orleans, USA

***Dan Z. Reinstein, Timothy J. Archer***

**Assessment of VisuMax femtosecond laser flap thickness accuracy and precision by 3D VHF digital ultrasound scanning**

European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Stability of LASIK performed on corneas topographically suggestive of keratoconus made possible by epithelial thickness mapping**

European Society of Cataract and Refractive Surgery  
September 8-12, 2007, Stockholm, Sweden

***Dan Z. Reinstein, Timothy J. Archer, Marine Gobbe***

**Preservation of mesopic contrast sensitivity in high myopic corneal photorefractive surgery using aspherical ablation profiles**

American Society of Cataract and Refractive Surgery, Annual Meeting 2007  
April 28 – May 1, 2007, San Diego, USA

***Dan Z. Reinstein, Timothy J. Archer, Darren G. Couch***

**Using Angle to Angle to estimate Sulcus to Sulcus**

American Society of Cataract and Refractive Surgery, Annual Meeting 2007  
April 28 – May 1, 2007, San Diego, USA

***Dan Z. Reinstein, Timothy J. Archer***

**Exclusion of keratoconus in corneas diagnosed as Forme Fruste Keratoconic by Orbscan using epithelial and stromal thickness mapping**

American Academy of Ophthalmology  
November 9-14, 2006, Las Vegas, USA

***Dan Z. Reinstein, Timothy J. Archer***

**First results of a new wavefront-topography supported custom ablation (TOSCA)**

European Society of Cataract and Refractive Surgery  
September 9-13, 2006, London, United Kingdom

***Dan Z. Reinstein***

**Can angle to angle be used to estimate sulcus to sulcus?**

European Society of Cataract and Refractive Surgery  
September 9-13, 2006, London, United Kingdom

***Dan Z. Reinstein***

**First results of a Wavefront-Topography-Supported Custom Ablation**

American Society of Cataract and Refractive Surgery, Annual Meeting 2006  
March 17-22, 2006, San Francisco, CA, USA

***Dan Z. Reinstein***

**How accurate is the ablation depth readout of an Excimer laser?**

American Academy of Ophthalmology Annual Meeting, Subspecialty Day  
October 14-15, 2005, Chicago, USA

***Dan Z. Reinstein, Darren G. Couch, Timothy J. Archer***

**Wavefront-guided repair of night vision disturbances induced by LASIK**

American Academy of Ophthalmology Annual Meeting, Subspecialty Day  
October 14-15, 2005, Chicago, USA

***Dan Z. Reinstein, Timothy J. Archer, Darren G. Couch***

**Probability model to quantify the inaccuracy of residual stromal thickness prediction to prevent ectasia in laser in situ keratomileusis**

European Society of Cataract and Refractive Surgery  
September 9-14, 2005, Lisbon, Portugal

***Dan Z. Reinstein***

**Correction of night-vision problems after LASIK and residual refractive error by Wavefront-guided enhancement**

American Society of Cataract and Refractive Surgery, Annual Meeting 2005  
April 15-20, 2005, Washington, DC, USA

***Dan Z. Reinstein***

**Inaccuracy of conventional external measurements in calculating optimal phakic IOL size**

American Society of Cataract and Refractive Surgery, Annual Meeting 2005  
April 15-20, 2005, Washington, DC, USA

***Dan Z. Reinstein***

**RAWS parameter evaluation of night vision disturbances as a metric of success in wavefront-guided repair**

6<sup>th</sup> International Congress of Wavefront  
February 11-13, 2005, Athens, Greece

***Dan Z. Reinstein***

**Evaluating microkeratome efficacy: 3D assessment of corneal lamellar flap thickness accuracy and reproducibility by Artemis arc-scanning very high frequency digital ultrasound**

European Society of Cataract and Refractive Surgery  
February 4-6, 2005, Rome, Italy

***Dan Z. Reinstein, Ronald H. Silverman, D. Jackson Coleman***

**Is there a correlation between white-to-white and sulcus-to-sulcus or angle-to-angle that can be used for predicting phakic IOL size?**

European Society of Cataract and Refractive Surgery  
February 4-6, 2005, Rome, Italy

***Dan Z. Reinstein, Ronald H. Silverman, D. Jackson Coleman***

**Binocular function after monovision induced by LASIK for hyperopic astigmatism**

American Academy of Ophthalmology/European Society of Ophthalmology  
October 23-26, 2004, New Orleans, USA

***Dan Z. Reinstein, Timothy J. Archer***

**Can the wavefront add benefit to aspherically optimized spherocylindrical treatments?**

American Academy of Ophthalmology Subspecialty Day  
October 22-23, 2004, New Orleans, USA

***Dan Z. Reinstein, Timothy J. Archer, Darren G. Couch***

**Modern refractive Excimer Laser surgery today: Carl Zeiss Meditec MEL-80 and surgeon controlled custom ablation with the CRS-Master**

German Society for Biomedical Engineering  
September 22, 2004, Ilmenau, Germany

***Eckhard Schroeder, Rudolf von Buenu, Dan Z. Reinstein***

**Binocular function after 'blended vision' induced by LASIK for hyperopic astigmatism with the Carl Zeiss Meditec MEL-80 and CRS-Master**

European Society of Cataract and Refractive Surgery, Summer Meeting 2004  
September 18-22, 2004, Paris, France

***Dan Z. Reinstein***

**Diagnosing the structural complications of LASIK by Artemis VHF digital ultrasound scanning technology**

European Society of Cataract and Refractive Surgery, Summer Meeting 2004  
September 18-22, 2004, Paris, France

***Dan Z. Reinstein***

**Treating Night-Vision Disturbances Induced by LASIK with the WASCA Aberrometer, CRS-Master, and MEL-80**

American Society of Cataract and Refractive Surgery, Annual Meeting 2004  
May 1-5, 2004, San Diego, California, USA

***Dan Z. Reinstein, Timothy J. Archer***

**Analysis of Structural Complications of LASIK by VHF Digital Ultrasound Scanning Technology**

American Society of Cataract and Refractive Surgery, Annual Meeting 2004  
May 1-5, 2004, San Diego, California, USA

***Dan Z. Reinstein***

**Correcting the Complications of LASIK using the Carl Zeiss Meditec WASCA, CRS-Master, and MEL-80**

European Society of Cataract and Refractive Surgery, Winter Meeting 2004  
January 23-25, 2004, Barcelona, Spain

***Dan Z. Reinstein, Timothy J. Archer***

**Artemis VHF Digital Ultrasound ARC-Scanning in assessing the structural Complications of LASIK**

European Society of Cataract and Refractive Surgery, Winter Meeting 2004  
January 23-25, 2004, Barcelona, Spain

***Dan Z. Reinstein***

**High-Frequency Ultrasound versus Optical Coherence Tomography**

American Academy of Ophthalmology, Annual Meeting 2003  
November 15-18, 2003, Anaheim, CA, USA

***Dan Z. Reinstein***

**Six-month outcomes of LASIK for the correction of myopia and myopic astigmatism using the Carl Zeiss Meditec MEL-80 and CRS-Master**

European Society of Cataract and Refractive Surgery, Summer Meeting 2003  
September 6-10, 2003, Munich, Germany

***Dan Z. Reinstein, Sabong Srivannaboon***

**Study of correlation between white-to-white and sulcus-to-sulcus or angle-to-angle: Can phakic IOL size be adequately predicted from the outside?**

European Society of Cataract and Refractive Surgery, Summer Meeting 2003  
September 6-10, 2003, Munich, Germany

***Dan Z. Reinstein, Ronald H. Silverman, Harriet O. Lloyd***

**Meditec MEL-80 and Surgeon-Controlled Custom Ablation Profile Design with the CRS Master**

American Society of Cataract and Refractive Surgery, Annual Meeting 2003  
April 12-16, 2003, San Francisco, California, USA

***Dan Z. Reinstein***

**Symposium: Refractive Surgery Complications**

American Society of Cataract and Refractive Surgery, Annual Meeting 2003  
April 12-16, 2003, San Francisco, California, USA

***Dan Z. Reinstein***

**Treating High Corneal Aberrations from LASIK and PRK Complications Using Meditec WASCA Aberrometer, MEL-70, and MEL-80**

American Society of Cataract and Refractive Surgery, Annual Meeting 2003  
April 12-16, 2003, San Francisco, California, USA

***Dan Z. Reinstein***

**Epithelial and Biomechanical Changes in LASIK: Are they significant, and can we characterize them for improving the accuracy of custom ablation?**

4th International Congress of Wavefront Sensing and Aberration-Free Refractive Correction  
February 14-16, 2003, San Francisco, California, USA

***Dan Z. Reinstein***

**Clinical outcomes of custom ablation with the Carl Zeiss Meditec platform**

4th International Congress of Wavefront Sensing and Aberration-Free Refractive Correction  
February 14-16, 2003, San Francisco, California, USA

***Dan Z. Reinstein***

**Estimation of angle-to-angle or sulcus-to-sulcus from white-to-white and other conventional ocular measurements is not adequate for planning phakic-IOL surgery**

European Society of Cataract and Refractive Surgery, Winter Meeting 2003  
February 7-9, 2003, Rome, Italy

***Dan Z. Reinstein, Ronald H. Silverman, Harriet O. Lloyd.***

**Correction of surgical complications with high corneal aberrations using the Carl Zeiss Meditec CRS-Master and Vision Master**

European Society of Cataract and Refractive Surgery, Winter Meeting 2003  
February 7-9, 2003, Rome, Italy

***Dan Z. Reinstein, Gordon Quinn***

**Carl Zeiss Meditec MEL-80: LASIK outcomes of the Bangkok Study**

European Society of Cataract and Refractive Surgery, Winter Meeting 2003  
February 7-9, 2003, Rome, Italy

***Dan Z. Reinstein***

**VHF digital ultrasound: Slit-lamp of the 21st Century**

American Society of Ophthalmic Ultrasound, Annual Meeting 2002  
October 20, 2002, Orlando, Florida, USA

***Dan Z. Reinstein, Ronald H. Silverman, Mark J. Rondeau, George Simoni, Harriet O. Lloyd, Tatyana Raevsky, D. Jackson Coleman***

**CRS-Master: Surgeon-Controlled Custom Ablation Profile Design**

ISRS World Refractive Surgery Symposium, Orlando, Florida, Annual Meeting 2002  
October 18-19, 2002, Orlando, Florida, USA

***Dan Z. Reinstein, Eckhard Schroder, Holger Mausezahl, Hartmut Vogelsang***

**Is estimation of angle-to-angle or sulcus-to-sulcus from white-to-white and other conventional ocular measurements adequate for planning phakic-IOL surgery?**

ISRS World Refractive Surgery Symposium, Orlando, Florida, Annual Meeting 2002  
October 18-19, 2002, Orlando, Florida, USA

***Dan Z. Reinstein, Ronald H. Silverman, Harriet O. Lloyd***

**Should LASIK spherocylindrical treatments be centered on the pupil?**

ISRS World Refractive Surgery Symposium, Orlando, Florida, Annual Meeting 2002  
October 18-19, 2002, Orlando, Florida, USA

***Dan Z. Reinstein, Emma Cremonesi***

**Prospective, controlled comparison of Hansatome vs. M2 aberrations:**

**Can we control for flap induced aberrations in primary wavefront guided LASIK?**

XX Congress of the European Society of Cataract and Refractive Surgery, 2002  
September 7-11, 2002, Nice, France

***Dan Z. Reinstein, Frank Goes***

**Estimation of angle-to-angle or sulcus-to-sulcus from white-to-white and conventional ocular measurements: Are there adequate correlations for safe phakic-IOL surgery?**

XX Congress of the European Society of Cataract and Refractive Surgery, 2002  
September 7-11, 2002, Nice, France

***Dan Z. Reinstein, Ronald H. Silverman, Harriet O. Lloyd***



**Multicenter outcomes of LASIK for Myopic Astigmatism Using a VISX S2 Laser**

American Society of Cataract and Refractive Surgery, Annual Meeting 2002  
June 1-5, 2002, Philadelphia, PA, USA

**Dan Z. Reinstein**

**Are wavefront data enough to accurately customize corneal ablations?**

American Society of Cataract and Refractive Surgery, Annual Meeting 2002  
June 1-5, 2002, Philadelphia, PA, USA

**Dan Z. Reinstein**

**Limits of wavefront guided customized ablation: biomechanical and epithelial factors**

Association for Research in Vision and Ophthalmology, Annual Meeting 2002  
May 5-10, 2002, Fort Lauderdale, FL, USA

**Dan Z. Reinstein Sabong Srivannaboon, Ronald H. Silverman, Hugo F.S. Sutton, D. Jackson Coleman**

**Wavefront guided treatment outcomes for the Asclepion-Meditec MEL-70 and WASCA: PRK vs. LASIK**

British Society of Refractive Surgery, 2002 Annual Meeting  
March 20-21, 2002, Birmingham, United Kingdom

**Dan Z. Reinstein**

**Clinical results of customized ablations using the Asclepion-Meditec MEL-70 and WASCA**

3rd International Congress of Wavefront Sensing and Aberration-Free Refractive Correction, 2002  
February 16-18, 2002, Interlaken, Switzerland

**Dan Z. Reinstein**

**Epithelial and Biomechanical Considerations May Be Required for Accurate Wavefront Guided Ablations**

3rd International Congress of Wavefront Sensing and Aberration-Free Refractive Correction, 2002  
February 16-18, 2002, Interlaken, Switzerland

**Dan Z. Reinstein**

**Prospective Randomized Controlled Single Blind Trial of Standard PRK vs. Laser In Situ Epithelial Keratomileusis (LASEK)**

American Academy of Ophthalmology, Annual Meeting 2001  
November 8-14, 2001, New Orleans, LA, USA

**Emma Cremonesi, Dan Z. Reinstein, William J. Threlfall, Hugo F.S. Sutton**

**Valsalva-like Retinopathy After Hyperopic LASIK**

American Academy of Ophthalmology, Annual Meeting 2001  
November 8-14, 2001, New Orleans, LA, USA

**Andrew A. Moshfeghi, Philip J. Ferrone, Dan Z. Reinstein**

**Reproducibility of anterior segment surgical anatomy using the Artemis 2000 VHF digital ultrasound arc-scan**

American Society of Ophthalmic Ultrasound, and American Academy of Ophthalmology, Annual Meeting 2001

November 7, 2001, New Orleans, LA, USA

**Dan Z. Reinstein, Nadina Bukowski, Ronald H. Silverman**

**Ectasia in routine LASIK: occurrence rate is reduced by one third when consistently using a thinner flap**

Association for Research in Vision and Ophthalmology, Annual Meeting 2001  
April 30 - May 4, 2001, Fort Lauderdale, FL, USA

**Dan Z. Reinstein, Emma Cremonesi**

**LASIK treated hyperopia and hyperopic astigmatism with the Bausch & Lomb 217C laser**

Association for Research in Vision and Ophthalmology, Annual Meeting 2001  
April 30 - May 4, 2001, Fort Lauderdale, FL, USA

**Mark J. Cohen, Avi A. Wallerstein, Y. Alzafiri, Myriam Assouline, Pierre Demers, Dan Z. Reinstein, A. Al-Buloushi**

**Thin button hole flaps in hansatome LASIK surgery**

Association for Research in Vision and Ophthalmology, Annual Meeting 2001  
April 30 - May 4, 2001, Fort Lauderdale, FL, USA

**Y. Alzafiri, Avi A. Wallerstein, Mark J. Cohen, Myriam Assouline, Jonathan D. Carr, Dan Z. Reinstein**

**LASIK treated mixed astigmatism using cross cylinder ablation on the Bausch & Lomb 217C laser**

Association for Research in Vision and Ophthalmology, Annual Meeting 2001  
April 30 - May 4, 2001, Fort Lauderdale, FL, USA

**Avi A. Wallerstein, Mark J. Cohen, Dan Z. Reinstein, Myriam Assouline, Pierre Demers**

**Multi-Center LASIK Outcomes In Myopia Using The Technolas 217C In Over 20,000 Eyes**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Dan Z. Reinstein; Jonathan D. Carr, William J. Threlfall, Msc; Randall Cook, Emma Cremonesi, Hugo F.S. Sutton**

**Multi-Center Refractive Outcome Of LASIK For Correction Of Myopia In 1561 Eyes Using A Visx S2 Laser**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Jonathan D. Carr, Dan Z. Reinstein, William J. Threlfall**

**Multi-Center Stratified Outcome Of LASIK For Correction Of Myopic Astigmatism In 3703 Eyes Using A Visx S2 Laser**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Dan Z. Reinstein, Jonathan D. Carr, William J. Threlfall, Randall Cook, Emma Cremonesi, Hugo F.S. Sutton**

**Use Of Orbscan To Diagnose Biomechanical And Epithelial Changes In LASIK**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Emma Cremonesi, Dan Z. Reinstein, Hugo Sutton**

**Prospective Randomized Single Blind Trial Of Standard PRK vs. Epithelial Autograft PRK**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Emma Cremonesi, Dan Z. Reinstein, William J. Threlfall, Hugo F.S. Sutton**

**High Volume LASIK Surgery - Safe And Effective?**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Steven Wong, Dan Z. Reinstein, William J. Threlfall**

**Visx S2 LASIK Results For Myopia In A High Volume Setting**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Michael Mockovak, Dan Z. Reinstein, William J. Threlfall**

**LASIK Outcomes In Myopia In A High-Volume Setting**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Mounir Bashour, Dan Z. Reinstein, William J. Threlfall**

**Efficacy, Accuracy, And Safety Of LASIK In A High Volume Surgical Setting Using The Visx Star S2**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Joseph King, Dan Z. Reinstein, William J. Threlfall**

**LASIK In HIV+ Patients**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Michael E. Mockovak, Sasha Penn, Denis Finney, Justin Graham, Howard Rice, James Abrams, Michael Gorin, Bryan Doherty**

**LASIK Treated Mixed Astigmatism Using Cross Cylinder Ablation On The Bausch & Lomb 217C Laser**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Avi A. Wallerstein, Mark J. Cohen, Dan Z. Reinstein, Myriam Assouline, Pierre Demers**

**Bausch & Lomb Technolas 217c And Hansatome For The Correction Of Myopia With A Standardized LASIK Technique**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Bruce Pretty, James McNeil, David Andrews, Dan Z. Reinstein**

**LASIK Correction Of Hyperopia and Astigmatism Using The Bausch & Lomb Technolas 217C and Hansatome**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**James McNeil, Bruce Pretty, David Andrews, Dan Z. Reinstein**

**Thin Button Hole Flaps In Hansatome LASIK Surgery**

American Society of Cataract and Refractive Surgery, Annual Meeting 2001  
April 28 - May 2, 2001, San Diego, CA, USA

**Avi A. Wallerstein, Mark J. Cohen, Jonathan D. Carr, Myriam Assouline, Dan Z. Reinstein**

**Ectasia rates are more than halved by use of a thinner flap in LASIK**

World Refractive Surgery Symposium 2000  
October 20-21, 2000, Dallas, Texas, USA

**Dan Z. Reinstein**

**Predictability of residual stromal thickness in LASIK: Are we always leaving "250" behind?**

American Society of Cataract and Refractive Surgery, Annual Meeting 2000

May 20, 2000, Boston, MA, USA

**Dan Z. Reinstein, Hugo F.S. Sutton, Ronald H. Silverman, Sabong Srivannaboon, Simon P. Holland and D. Jackson Coleman**

**Hansatome Flap Consistency analysis by 3D VHF ultrasound pachymetric topography**

**Best Paper of Session**

American Society of Cataract and Refractive Surgery, Annual Meeting 2000

May 20, 2000, Boston, MA, USA

**Dan Z. Reinstein, Hugo F.S. Sutton, Ronald H. Silverman, Sabong Srivannaboon, Simon P. Holland and D. Jackson Coleman**

**Imaging of the eyelid with very-high frequency ultrasound**

Association for Research in Vision and Ophthalmology, Annual Meeting 2000

April 29 - May 4, 2000, Fort Lauderdale, FL, USA

**R. Ursea, B.G. Ursea, Ronald H. Silverman, Dan Z. Reinstein, D. Kruse, K.W. Ferrara, D. Jackson Coleman**

**Hansatome flap consistency analysis by 3d VHF ultrasound pachymetric topography**

Association for Research in Vision and Ophthalmology, Annual Meeting 2000

April 29 - May 4, 2000, Fort Lauderdale, FL, USA

**Sabong Srivannaboon, Dan Z. Reinstein, Hugo F.S. Sutton, A. Shaikh, Ronald H. Silverman, D. Jackson Coleman**

**The accuracy of routine LASIK; isolation of biomechanical and epithelial factors**

Association for Research in Vision and Ophthalmology, Annual Meeting 2000

April 29 - May 4, 2000, Fort Lauderdale, FL, USA

**Dan Z. Reinstein, Sabong Srivannaboon, Ronald H. Silverman, D. Jackson Coleman**

**Very high frequency ultrasound evaluation of persistent flap striae after myopic LASIK**

Association for Research in Vision and Ophthalmology, Annual Meeting 2000

April 29 - May 4, 2000, Fort Lauderdale, FL, USA

**H.H. Liu, J.A. Lee, S.C. Belmont, Ronald H. Silverman, Dan Z. Reinstein**

**Comparison Of 24h Post-LASIK UCVA: Technolas 217 Vs. Nidek EC5000 Treated Eyes**

Association for Research in Vision and Ophthalmology, Annual Meeting 2000

April 29 - May 4, 2000, Fort Lauderdale, FL, USA

**Hugo F.S. Sutton, Dan Z. Reinstein, Sabong Srivannaboon, Ronald H. Silverman, A. Shaikh, S. Kirzner, D. Neima, D. Jackson Coleman**

**Excimer Laser Photorefractive Keratectomy. 5 Years Follow-Up**

Association for Research in Vision and Ophthalmology, Annual Meeting 2000

April 29 - May 4, 2000, Fort Lauderdale, FL, USA

**B. Ameline-Chalumeau, C. Romeo, S. Quesnot, Dan Z. Reinstein, Laurent Laroche**

**Micronic resolution and biometry using high-frequency ultrasound digital signal processing**

American Institute of Ultrasound in Medicine, Annual Meeting 2000

April 2-4, 2000, San Francisco, CA, USA

**Dan Z. Reinstein, Ronald H. Silverman, Hugo F.S. Sutton**

**Ultrasound Determined Fractal Dimension of the Ciliary Processes**

American Institute of Ultrasound in Medicine, Annual Meeting 2000  
April 2-4, 2000, San Francisco, CA, USA

**Ronald H. Silverman, Mark J. Rondeau, Frederic L. Lizzi, Dan Z. Reinstein, D. Jackson Coleman**

**Model Correlating Biomechanical Myopic Shifts Post-LASIK to Residual Stromal Thickness**

World Refractive Surgery Symposium of the International Society of Refractive Surgery, 1999  
October 21-23, 1999, Orlando, FL, USA

**Dan Z. Reinstein, Sabong Srivannaboorn, Hugo F.S. Sutton, Aftab Shaikh, Ronald H. Silverman, Simon P. Holland**

**Reproducibility of the Residual Stromal Thickness Prediction in LASIK**

World Refractive Surgery Symposium of the International Society of Refractive Surgery, 1999  
October 21-23, 1999, Orlando, FL, USA

**Dan Z. Reinstein, Sabong Srivannaboorn, Hugo F.S. Sutton, Aftab Shaikh, Simon P. Holland**

**Risk of Ectasia in LASIK: Revised Safety Criteria**

Association for Research in Vision and Ophthalmology, Annual Meeting 1999  
May 9-14, 1999, Fort Lauderdale, FL, USA

**Dan Z. Reinstein, Sabong Srivannaboorn, Hugo F.S. Sutton, Ronald H. Silverman, Simon P. Holland, D. Jackson Coleman**

**Effect of Epithelial changes on refractive outcome in LASIK**

Association for Research in Vision and Ophthalmology, Annual Meeting 1999  
May 9-14, 1999, Fort Lauderdale, FL, USA

**Sabong Srivannaboorn, Dan Z. Reinstein, Hugo F.S. Sutton, Ronald H. Silverman, Simon P. Holland, and D. Jackson Coleman**

**Three-dimensional pachymetric analysis of the flap in LASIK by high-frequency ultrasound scanning**

Association for Research in Vision and Ophthalmology, Annual Meeting 1999  
May 9-14, 1999, Fort Lauderdale, FL, USA

**Hugo F.S. Sutton, Dan Z. Reinstein, Sabong Srivannaboorn, Ronald H. Silverman, Simon P. Holland, and D. Jackson Coleman**

**Reproducibility of Corneal Pachymetry by PACScan (Orbscan)**

Association for Research in Vision and Ophthalmology, Annual Meeting 1999  
May 9-14, 1999, Fort Lauderdale, FL, USA

**Han Bor Fam, Dan Z. Reinstein, Sabong Srivannaboorn, Hugo F.S. Sutton, Simon P. Holland**

**Very high-frequency ultrasound assessment of intra-corneal ring segments (ICRS)**

American Society of Cataract and Refractive Surgery, Annual Meeting 1999  
April 10-14, 1999, Seattle, WA, USA

**Dan Z. Reinstein, Sabong Srivannaboorn, Simon P. Holland, Hugo F.S. Sutton, Ronald H. Silverman and D. Jackson Coleman**

**Reliability of preoperative residual stromal thickness calculation and the safety of LASIK**

American Society of Cataract and Refractive Surgery, Annual Meeting 1999  
April 10-14, 1999, Seattle, WA, USA

**Dan Z. Reinstein, Sabong Srivannaboorn, Hugo F.S. Sutton, Simon P. Holland**

**Reproducibility of central pachymetry by PACScan-Orbscan**

American Society of Cataract and Refractive Surgery, Annual Meeting 1999  
April 10-14, 1999, Seattle, WA, USA

**Han Bor Fam, Dan Z. Reinstein, Sabong Srivannaboorn, Hugo F.S. Sutton, Simon P. Holland**

**Residual stromal thickness prediction and the safety of LASIK**

Castroviejo Cornea Society and International Society of Refractive Surgery of the American Academy of Ophthalmology, Annual Meeting 1998  
November 6-7, 1998, New Orleans, USA

**Dan Z. Reinstein, Sabong Srivannaboorn, Hugo F.S. Sutton**

**Anatomic correlates of optical complications of lamellar refractive surgery**

Castroviejo Cornea Society and International Society of Refractive Surgery of the American Academy of Ophthalmology, Annual Meeting 1998  
November 6-7, 1998, New Orleans, USA

**Dan Z. Reinstein**

**Layered evaluation of corneal surface irregularities in LASIK: Fixing the problem**

Proceedings: Exp Eye Research Vol 67 suppl July 1<sup>st</sup>, 1998  
XIII International Congress of Eye Research, 1998  
July 26-31, 1998, Paris, France

**Dan Z. Reinstein**

**Epithelial changes in complicated LASIK: help and hindrance**

Proceedings: Exp Eye Research Vol 67 suppl July 1<sup>st</sup>, 1998  
XIII International Congress of Eye Research, 1998  
July 26-31, 1998, Paris, France

**Dan Z. Reinstein**

**Epithelial compensation in routine LASIK – a key to improving accuracy of outcomes**

Canadian Ophthalmological Society, Annual Meeting 1998  
June 26, 1998, Calgary, Canada

**Dan Z. Reinstein, Hugo F.S. Sutton, Simon P. Holland, Ronald H. Silverman, D. Jackson Coleman**

**Epithelial Compensation in Complicated LASIK**

Association for Research in Vision and Ophthalmology, Annual Meeting 1998  
May 9-15, 1998, Fort Lauderdale, FL, USA

**Dan Z. Reinstein, Hugo F.S. Sutton, Simon P. Holland, Ronald H. Silverman, T Raevsky, Harriet O. Lloyd, Andrea Cusumano, D. Jackson Coleman**

**Anatomy of the flap in LASIK by VERY high-frequency ultrasound scanning**

Association for Research in Vision and Ophthalmology, Annual Meeting 1998  
May 9-15, 1998, Fort Lauderdale, FL, USA

**Hugo F.S. Sutton, Dan Z. Reinstein, Simon P. Holland, Ronald H. Silverman, T Raevsky, Harriet O. Lloyd, Andrea Cusumano, D. Jackson Coleman**

**Ultrastructural analysis of epikeratophakia lenticles removed for postoperative complications**

Association for Research in Vision and Ophthalmology, Annual Meeting 1998  
May 9-15, 1998, Fort Lauderdale, FL, USA

**Andrea Cusumano, Dan Z. Reinstein**

**High frequency ultrasound in corneal tissue characterization**

Association for Research in Vision and Ophthalmology, Annual Meeting 1998  
May 9-15, 1998, Fort Lauderdale, FL, USA

**David J. Najafi, Ronald H. Silverman, Dan Z. Reinstein, S.C. Belmont, D. Jackson Coleman**

**Accuracy of Orbscan total optical power maps in LASIK**

Association for Research in Vision and Ophthalmology, Annual Meeting 1998  
May 9-15, 1998, Fort Lauderdale, FL, USA

**Sabong Srivannaboon, Dan Z. Reinstein, Simon P. Holland, Hugo F.S. Sutton**

**Low contrast acuity after hyperopic-astigmatic LASIK: Effect of optical zone size**

Association for Research in Vision and Ophthalmology, Annual Meeting 1998  
May 9-15, 1998, Fort Lauderdale, FL, USA

**Maria Clara Arbelaez, Dan Z. Reinstein**

**Anatomy of the flap in LASIK by high-frequency ultrasound**

**Best Paper of Session Award**

American Society of Cataract and Refractive Surgery, Annual Meeting 1998  
April 18-23, 1998, San Diego, CA, USA

**Hugo F.S. Sutton, Dan Z. Reinstein, Ronald H. Silverman, Sabong Srivannaboon, Simon P. Holland and D. Jackson Coleman**

**Low contrast visual acuity after hyperopic LASIK: Effect of optical zone size**

**Best Paper of Session Award**

American Society of Cataract and Refractive Surgery, Annual Meeting 1998  
April 18-23, 1998, San Diego, CA, USA

**Dan Z. Reinstein and Maria Clara Arbelaez**

**Epithelial compensation in LASIK: Friend and Foe**

American Society of Cataract and Refractive Surgery, Annual Meeting 1998  
April 18-23, 1998, San Diego, CA, USA

**Dan Z. Reinstein, Hugo F.S. Sutton, Sabong Srivannaboon, Simon P. Holland, Ronald H. Silverman, and D. Jackson Coleman**

**LASIK for the correction of hyperopic astigmatism post-RK**

American Society of Cataract and Refractive Surgery, Annual Meeting 1998  
April 18-23, 1998, San Diego, CA, USA

**Dan Z. Reinstein, Roberto Zaldivar, Susana Oscherow and Giselle Ricur**

**Diagnosis of refractive surgery complications by ultrasound is more accurate than by video-keratography**

American Institute of Ultrasound in Medicine, Annual Meeting 1998  
March 15, 1998, San Antonio, Texas, USA

**Dan Z. Reinstein, Sabong Srivannaboon, Hugo F.S. Sutton, Ronald H. Silverman, Tatiana Raevsky, Harriet O. Lloyd, D. Jackson Coleman**

**Stromal and Epithelial Changes in LASIK and ALK**

American Academy of Ophthalmology, Annual Meeting 1997  
October 26-30, 1997, San Francisco, CA, USA

**Dan Z. Reinstein, Ronald H. Silverman, D. Jackson Coleman**

**Stromal and epithelial surface smoothness in normal and post-prk corneas in vivo by very high-frequency ultrasound**

Association for Research in Vision and Ophthalmology, Annual Meeting 1997  
May 11-16, 1997, Fort Lauderdale, FL, USA

***Dan Z. Reinstein, Andrea Cusumano, Ronald H. Silverman, Mark J. Rondeau, Matthew D. Segall, Neil F. Johnson, D. Jackson Coleman***

**Very high-frequency ultrasound analysis of lamellar corneal refractive procedures**

Association for Research in Vision and Ophthalmology, Annual Meeting 1997  
May 11-16, 1997, Fort Lauderdale, FL, USA

***Andrea Cusumano, Dan Z. Reinstein, Ronald H. Silverman, Sandra C. Belmont, D. Jackson Coleman***

**An expert system for corneal layer three dimensional pachymetry**

Association for Research in Vision and Ophthalmology, Annual Meeting 1997  
May 11-16, 1997, Fort Lauderdale, FL, USA

***David J. Najafi, Dan Z. Reinstein, Ronald H. Silverman and D. Jackson Coleman***

**Analysis of ultrasonic echo patterns of corneal layers**

Association for Research in Vision and Ophthalmology, Annual Meeting 1997  
May 11-16, 1997, Fort Lauderdale, FL, USA

***Ronald H. Silverman, Dan Z. Reinstein, Mark J. Rondeau, Cathy X. Deng, Frederic L. Lizzi, Tatiana Raevsky, D. Jackson Coleman***

**Acoustic microscopy of the cornea**

Association for Research in Vision and Ophthalmology, Annual Meeting 1997  
May 11-16, 1997, Fort Lauderdale, FL, USA

***Rachel Solomon, Ronald H. Silverman, Roxana Ursea, Dan Z. Reinstein, Andrea Cusumano, Mark J. Rondeau and D. Jackson Coleman***

**Phakic posterior chamber intraocular lenses for the correction of high ametropia**

Association for Research in Vision and Ophthalmology, Annual Meeting 1997  
May 11-16, 1997, Fort Lauderdale, FL, USA

***Sandra C. Belmont, Daniel Y. Kim, Alexander P. Hatsis, George W. Rozakis, Dan Z. Reinstein***

**Computerized corneal topographic analysis of laser thermal keratoplasty in low hyperopes**

Association for Research in Vision and Ophthalmology, Annual Meeting 1997  
May 11-16, 1997, Fort Lauderdale, FL, USA

***Daniel Y. Kim, Sandra C. Belmont, Dan Z. Reinstein***

**Epithelial and stromal high-frequency ultrasound pachymetric topography to assess abnormal video-keratography post-prk**

American Academy of Ophthalmology, Annual Meeting 1996  
October 27-31, 1996, Chicago, IL, USA

***Dan Z. Reinstein, Ronald H. Silverman, David Haight and D. Jackson Coleman***

**Stromal very high-frequency ultrasound pachymetric topography post-prk**

International Society of Refractive Surgery, Annual Meeting 1996  
October 24-26, 1996, Chicago, IL, USA

***Dan Z. Reinstein, Andrea Cusumano, Jonathan D. Carr, Ronald H. Silverman and D. Jackson Coleman***



**Simultaneous 3-D pachymetry and keratometry of the full cornea using a new high-frequency ultrasound multi-directional scanning system**

Association for Research in Vision and Ophthalmology, Annual Meeting 1996  
April 21-26, 1996, Fort Lauderdale, FL, USA

***Dan Z. Reinstein, Ronald H. Silverman, Tanya Raevsky, Neil F. Johnson, Matthew D. Segall, D. Jackson Coleman***

**Ultrasonic corneal pachymetry during immersion in normal hypotonic and hypertonic media in vivo**

Association for Research in Vision and Ophthalmology, Annual Meeting 1996  
April 21-26, 1996, Fort Lauderdale, FL, USA

***Rachel Solomon, Ronald H. Silverman, Dan Z. Reinstein and D. Jackson Coleman***

**Computer aided high-frequency ultrasound three-dimensional corneal kerato-pachymetric topography**

American Institute of Ultrasound in Medicine, Annual Convention 1996  
March 20-23, 1996, New York City, NY, USA

***Dan Z. Reinstein, Neil F. Johnson, Matthew D. Segall, Ronald H. Silverman and D. Jackson Coleman***

**Epithelial lenticular types of the human cornea; classification and analysis of their influence in PRK**

American Academy of Ophthalmology, Annual Meeting 1995  
October 29 - November 2, 1995, Atlanta, Georgia, USA

***Dan Z. Reinstein, Sudi Patel, Ronald H. Silverman, Ioannis M. Aslanides and D. Jackson Coleman***

**Epithelial and corneal pachymetric topography in PRK : effect on pre-operative planning and post-operative refraction**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

***Dan Z. Reinstein, Sudi Patel, Ioannis M. Aslanides, Ronald H. Silverman, Jonathan D. Carr, John Cahill and D. Jackson Coleman***

**Computer aided high frequency ultrasound simultaneous three dimensional Corneal Pachymetric and Keratometric Topography**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

***Matthew D. Segall, Dan Z. Reinstein, Neil F. Johnson, Ronald H. Silverman and D. Jackson Coleman***

**Stromal high-frequency ultrasound Pachymetric Topography post Excimer Laser surgery**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

***Jonathan D. Carr, Dan Z. Reinstein, Ioannis M. Aslanides, Ronald H. Silverman and D. Jackson Coleman***

**High frequency ultrasound scanning and pachymetry in patients with Intrastromal Corneal Ring'**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

***Marcia Dunn, Dan Z. Reinstein, Ioannis M. Aslanides, Ronald H. Silverman, Penny A. Asbell, D. Jody Lapar and D. Jackson Coleman***

**Effect of media tonicity on very high frequency ultrasound measurement of the cornea , corneal epithelium , and corneal stroma in vivo**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

**Rachel Solomon, Dan Z. Reinstein, Ronald H. Silverman, Robert Ortiz and D. Jackson Coleman**

**High frequency ultrasound analysis of radial keratotomy incisions in a rabbit model**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

**Douglas R. Lazzaro, Sandra C. Belmont, Ioannis M. Aslanides, Ronald H. Silverman, Dan Z. Reinstein and Jackson D. Coleman**

**Volumetric and pachymetric analysis of trabeculectomy blebs using 3 D reconstruction of high frequency ultrasound images**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

**David J. Najafi, Ioannis M. Aslanides, Dan Z. Reinstein, Ronald H. Silverman, Mark J. Rondeau, Gregory K. Harmon, Hanna S. Rodriguez and D. Jackson Coleman**

**In vivo functional ultrasound imaging of ciliary muscle response to pharmacological agents**

Association for Research in Vision and Ophthalmology, Annual Meeting 1995  
May 14-19, 1995, Fort Lauderdale, FL, USA

**Ioannis M. Aslanides, Mark J. Rondeau, Ronald H. Silverman, Dan Z. Reinstein , David J. Najafi, Harriet O. Lloyd, Roxanna Ursea, Frederic L. Lizzi and D. Jackson Coleman**

**The corneal epithelium; spherical aberration and refraction of the eye**

British Conference on Basis Eye Research, 1995  
April 11-13, 1995, Glasgow, Scotland, United Kingdom

**Sudi Patel, Dan Z. Reinstein, Ioannis M. Aslanides, Ronald H. Silverman, D. Jackson Coleman**

**Corneal Pachymetric Topography of individual layers in the assessment of abnormal video-keratography post-PRK**

Agean II Cornea Meeting, 1994  
September 29 - October 2, 1994, Rhodes, Greece

**Dan Z. Reinstein, Ioannis M. Aslanides, Ronald H. Silverman, David J. Najafi, Sandra Belmont, David Haight, and D. Jackson Coleman.**

**Anterior corneal scar analysis by high frequency ultrasound scanning and three-dimensional Corneal Pachymetric Topography**

Agean II Cornea Meeting, 1994  
September 29 - October 2, 1994, Rhodes, Greece

**Dan Z. Reinstein, Ioannis M. Aslanides, Ronald H. Silverman, David J. Najafi and D. Jackson Coleman**

**Ultrasonic mapping of the corneal epithelium using PVDF Transducers**

XIX International Symposium on Ultrasonic Imaging and Tissue Characterization, 1994  
June 6-8, 1994, Arlington, VA, USA

**Andrew Kalisz, Frederic L. Lizzi, Ronald H. Silverman, Dan Z. Reinstein, Michail Ostromoglisky, D. Jackson Coleman**

**Epithelial and Corneal 3 D Ultrasound Pachymetric Topography Post Excimer Laser Surgery**

Association for Research in Vision and Ophthalmology, Annual Meeting 1994

May 1-6, 1994, Sarasota, FL, USA

***Dan Z. Reinstein, Ioannis M. Aslanides, Ronald H. Silverman, David J. Najafi, Robert L. Brownlow, Sandra Belmont, David M. Haight, D. Jackson Coleman***

**High-frequency ultrasound three dimensional pachymetry of experimentally induced corneal scars**

Association for Research in Vision and Ophthalmology, Annual Meeting 1994

May 1-6, 1994, Sarasota, FL, USA

***Ioannis M. Aslanides, Dan Z. Reinstein, Ronald H. Silverman, Alan H. Friedman, Harriet O. Lloyd, David J. Najafi, Robert L. Brownlow, D. Jackson Coleman***

**User Interactive Semiautomatic Corneal Layer Pachymetry**

Association for Research in Vision and Ophthalmology, Annual Meeting 1994

May 1-6, 1994, Sarasota, FL, USA

***David J. Najafi, Ronald H. Silverman, Dan Z. Reinstein, Ioannis M. Aslanides, D. Jackson Coleman***

**Measurement of The Depth of Keratotomy Incisions Using High Frequency Ultrasound**

Association for Research in Vision and Ophthalmology, Annual Meeting 1994

May 1-6, 1994, Sarasota, FL, USA

***Sandra C. Belmont, Jaqueline W. Muller, Ronald H. Silverman, Dan Z. Reinstein, Ioannis M. Aslanides and D. Jackson Coleman***

**High Resolution Three Dimensional Imaging of Acoustic Backscatter Parameters**

Association for Research in Vision and Ophthalmology, Annual Meeting 1994

May 1-6, 1994, Sarasota, FL, USA

***Ronald H. Silverman, D. Jackson Coleman, Mark J. Rondeau, Susanne M. Woods, Harriet O. Lloyd, Ioannis M. Aslanides, Dan Z. Reinstein***

**High-Frequency Ultrasound 3-D Corneal Pachymetric Topography for Surgical Planning and Post-operative Evaluation in Photorefractive Keratectomy**

American Institute of Ultrasound in Medicine, Annual Convention 1994

March 20-23, 1994, Baltimore, USA

***Dan Z. Reinstein, Ronald H. Silverman, Ioannis M. Aslanides, Mark J. Rondeau and D. Jackson Coleman***

**Automatic Boundary Detection for High-Resolution Ultrasonic Corneal Pachymetric Mapping**

American Institute of Ultrasound in Medicine, Annual Convention 1994

March 20-23, 1994, Baltimore, USA

***Ronald H. Silverman, Dan Z. Reinstein, Frederic L. Lizzi, D. Jackson Coleman***

**Corneal pachymetric topography in the assessment of anterior corneal scars for therapeutic planning**

Contact Lens Association of Ophthalmologists, Annual Meeting 1994

January 12-15, 1994, Las Vegas, NV, USA

***Dan Z. Reinstein, Ronald H. Silverman, Ioannis M. Aslanides, Penny A. Asbell and D. Jackson Coleman***

**High frequency ultrasound imaging, pachymetry and tissue characterization for corneal evaluation**

American Society of Ophthalmic Ultrasound, Annual Meeting 1993  
November 13, 1993, Chicago, IL, USA

***Dan Z. Reinstein, Ronald H. Silverman, Ioannis M. Aslanides, Mark J. Rondeau and D. Jackson Coleman***

**Etiologic analysis of post-excimer central corneal keratotopographic abnormalities in-vivo by high-frequency ultrasound epithelial and corneal pachymetric mapping**

International Society of Refractive Keratoplasty, Annual Meeting 1993  
November 12-13, 1993, Chicago, IL, USA

***Dan Z. Reinstein, Ronald H. Silverman, Ioannis Aslanides, Jacqueline W. Muller, Robert L. Brownlow, David H. Haight, Sandra C. Belmont and D. Jackson Coleman***

**Corneal Pachymetric Mapping: Method and Clinical Applications**

First International Ophthalmology Symposium, 1993  
September 9-11, 1993, Bordeaux, France

***Dan Z. Reinstein, Ronald H. Silverman, Stephen L. Trokel and D. Jackson Coleman***

**Examen de la cornée à l'aide d'ultrasons à haute fréquence avec analyse informatique (Examination of the cornea by high-frequency ultrasound with signal processing)**

Société Française d'Ophthalmologie, Annual Meeting 1993  
May 16-20, 1993, Paris, France

***Dan Z. Reinstein, Ronald H. Silverman, Mark J. Rondeau, Stephane Ganem, D. Jackson Coleman***

**High Frequency Ultrasound Three Dimensional Pachymetry and Keratometry of the Cornea**

Association for Research in Vision and Ophthalmology, Annual Meeting 1993  
May 2-7, 1993, Sarasota, FL, USA

***Dan Z. Reinstein, Ronald H. Silverman, Stephen L. Trokel, Mark J. Rondeau, Norma Allemann and D. Jackson Coleman***

**Evaluation of Bio-effects of High-Energy Modalities For Treatment of Glaucoma**

Association for Research in Vision and Ophthalmology, Annual Meeting 1993  
May 2-7, 1993, Sarasota, FL, USA

***Emma L. Vinarsky, D. Jackson. Coleman, Gregory K. Harmon, Dan Z. Reinstein, Ronald H. Silverman.***

**High Frequency Ultrasound Quantitative Grading of Post Excimer Corneal Scarring**

Association for Research in Vision and Ophthalmology, Annual Meeting 1993  
May 2-7, 1993, Sarasota, FL, USA

***Norma Allemann, Wallace Chamon, Ronald H. Silverman, Daniel T. Azar, Dan Z. Reinstein, Walter J. Stark, D. Jackson Coleman***

**Ultrasound based measurement of individual variations in anterior chamber depth for iol calculation purposes**

Association for Research in Vision and Ophthalmology, Annual Meeting 1993  
May 2-7, 1993, Sarasota, FL, USA

***Sue Woods, D. Jackson Coleman, Norma Allemann, Ronald H. Silverman, Emma L. Vinarsky, Dan Z. Reinstein***

**Characterization of Ocular Tissues With Very High Frequency Ultrasound Spectrum Analysis**

American Institute of Ultrasound in Medicine, Annual Convention 1993

March 15-18, 1993, Honolulu, Hawaii, USA

**Ronald H. Silverman, Mark J. Rondeau, Dan Z. Reinstein, Norma Allemann, D. Jackson Coleman**

**El Examen de la Cornea Mediante el uso de Ultrasonido de Alta Frecuencia (High Frequency Ultrasound Examination of the Cornea)**

Ophthalmologic Meeting of the V Centenary: Ibero-American Cornea Society, 1991

September 9-13, 1991, Sevilla, Spain

**Dan Z. Reinstein, Ronald H. Silverman, Norma Allemann, Peter J. Polack, D. Jackson Coleman**

**High Frequency Ultrasound Scanning of Corneal Scar Formation In Vivo**

Association for Research in Vision and Ophthalmology, Annual Meeting, 1991

May 3-8, 1991, Sarasota, FL, USA

**Dan Z. Reinstein, Peter J. Polack, Steven McCormick, Mark J. Rondeau, D. Jackson Coleman**

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**M. TELEVISION AND MEDIA APPEARANCES**

- 'I'm still in good shape'  
**Star**  
19 January 2014
- 'Starry Eyed'  
**OK Health**  
November 2013
- 'Prof Dan Reinstein, Plastic and Reconstructive Surgery'  
**Tatler, Doctors Guide 2013**  
24 October 2013
- 'Surgeon Dan Reinstein: I take playing the saxophone as seriously as performing eye surgery'  
**Metro**  
1 July 2013
- 'Laser Eye Surgery: man loses 28" from his waistline'  
**MSN Him**  
18 June 2013
- 'Fame and Fortune: My saxes make a sound bet'  
**The Sunday Times**  
14 April 2013
- 'I'm given a teddy bear – then eye OP begins'  
**The Sun**  
11 April 2013
- 'Laser gegen Weitsichtigkeit rücken in den Fokus: Mit neuer Lasergeneration bis zu +6 Dioptrien behandelbar'  
**Pressetext.com (Austria/Germany/Switzerland)**  
16 February 2013
- 'Tatler Doctors Guide 2013'  
**Tatler**  
February 2013

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## APPENDIX I: Areas of Study and Experimental Work

Effects of varying coaxial cable length, transducer pulse energy, and post-amplifier attenuation on the signal to noise ratio in corneal scanning. • Effect of ultrasonic beam focal point placement in imaging of the corneal epithelium. • Effects of varying the band-width of ultrasonic pulses on the resolution of the epithelium. • Method for correcting trigger point inconsistencies of the LeCroy 200 MHz A-D converter. • Ocular movements during ultrasound scanning—amplitude and vector analysis. • Method of obtaining reproducible locations on the cornea for rectilinear scanning. • Statistical techniques for analyzing corneal surface parameters. • Use of Cepstrum for measuring the thickness of the endothelial-Descemet complex. • Analytic Signal Magnitude after Deconvolution for improved acoustic interface localization. • Computerized model to compare the acoustic impedance differences between epithelium and Bowman’s layer and epithelium and stroma. • Determination of true acoustic posterior boundary of the epithelium- the front or back of Bowman’s?. • M-scan technique for measuring the reproducibility of measurements of the corneal epithelium. • Comparison of A-scan to I-scan processing of echo data with respect to resolution and peak location reproducibly and pachymetry. • Measurement of the speed of sound in rabbit cornea using scanning laser acoustic microscopy. • Measurement of the speed of sound in cornea by the method of displacement. • Temporal pachymetric changes in vivo of the corneal epithelium and stroma during immersion in normal , hypotonic, and hypertonic and toxic solutions. • Bio-effects of high-frequency ultrasound on the cornea. • Linearization of local best spherical fit for topographic local radius representation of the corneal surface. • The use of Newton Iteration for obtaining true radial pachymetry of the cornea from rectilinear scan data. • Instantaneous radius of curvature calculations from rectilinear consecutive corneal scan data sets. • Three dimensional topologic mapping of pachymetric data. • Statistical methods of enhancing surface irregularities on pachymetric plots. • Software development for simultaneous pachymetric and keratometric data display. • Spectral analysis of corneal stromal tissue in normals; mean and standard deviation of parameters. • Local spectral parameter changes observe during healing corneal tissue in vivo in a rabbit model. • Stromal acoustic spectral differences between clear stroma in patients with history of stromal keratitis (HSV) and those without. • Spectral parameter imaging of post-excimer stromal haze in the rabbit. • Quantitative determination of ultrasonic backscatter in post-excimer haze - correlation with clinical and histological assessment. • Corneal curvature calculated as a function of ultrasound reflectivity during rectilinear scanning. • Two-dimensional profilometry of individual corneal surfaces. • - comparison of the normal, with post-PRK central islands. • Epithelial ablation time and topographic results by Digital Subtraction Pachymetry. • Scanning of corneal superficial masses; imaging and spectral parameter imaging. • Prospective study of the anatomy of the human corneal optical zone; epithelial power contribution, stromal surface shape factors and their role in the gradient optics and spherical aberration of the eye. • Computational PRK on a modeled cornea derived from high-frequency ultrasound scanning. • Prospective pre- and post-operative scanning of the cornea undergoing PRK, PTK, ALK, SLK, and LASIK. • Hurst Exponent determination by Two-dimensional FFT / Wavelet Packet Analysis in the quantification of epithelial and stromal surface smoothness after PRK. • Design and Development of a new prototype arc-B high-frequency ultrasound scanner for assessment of the full cornea and anterior segment Prospective evaluation of the changes induced in the cornea by LASIK and PRK The management of asymmetric astigmatism after excimer laser surgery of the cornea by high-frequency ultrasound

guidance • Safety protocol enhancement by high-frequency ultrasound evaluation of corneal anatomy in LASIK Reverse water-bath coupling system for ergonomic ophthalmologic ultrasound examination. • Population statistical modeling of ectasia risk in LASIK. • Epithelial profile changes and epithelial power shifts in LASIK. • Biomechanical analysis of corneal changes induced by LASIK. • Biomechanical effects of the creation of a flap in LASIK. • Early diagnosis of keratoconus by epithelial thickness profiling of the cornea • Physical properties of the cornea in the induction of spherical aberration by myopic ablation • Relationships between asphericity of myopic ablation profile and reduction in spherical aberration • Correlation between induced spherical aberration and biomechanically induced reduction in sphere in the human cornea • Repair of night vision disturbances after laser refractive surgery • Study of the normal epithelial thickness profile of the human cornea • Study of the normal stromal thickness profile of the human cornea • Study of the thickness profile of the epithelium and stroma of the keratoconic cornea • Development of an improved screening system for detecting keratoconus undiagnosed by topography • Development of myopic ablation profiles for correction of extreme myopia involving dual mechanism flattening – biomechanical and ablative (Boost, DZP, 7Super60).

## APPENDIX II: Summary of Clinical Experience prior to establishing the London Vision Clinic

My training and experience has made me into an ophthalmologist with a solid general medical and surgical background, who has focused as a sub-specialist in two distinct but interrelated directions. Firstly, I have formal Fellowship training and expertise in ophthalmic ultrasound and in particular in VHF digital ultrasound evaluation of the eye – this covers a wide variety of ophthalmic sub-specialty areas (cornea, cataract, glaucoma, tumours, trauma, refractive surgery). Secondly, I have formal training and expertise in cornea, external diseases and refractive surgery.

Below is a chronological account of my clinical training and experience in ophthalmology.

**Research Fellow in Ophthalmic Epidemiology**, (September 1990 to January 1991), *Institute of Ophthalmology, London*. Following house jobs in London, I spent 6 months under Richard Wormald, MA MSc FRCS, FRCOphth, setting up a research project involving the epidemiology of uncorrected but correctable visual acuity deficit in the elderly. The field work was carried out while I was SHO in A&E at St. Mary's Hospital (January 1991 to July 1991). The results were subsequently published in the BJO (1993).

**Ophthalmology Fellow** (November 1991 to January 1994). I became a Fellow in the *Department of Ophthalmology at The Weill Medical College of Cornell University of in New York*, under the Chairman, Professor D. Jackson Coleman. Prof. Coleman's work in the 80's focused on signal processing of digitised ultrasound for tissue characterization of melanoma of the eye. My work centered on developing a link between the Cornell digital signal processing technology and the use of very high-frequency (VHF) ultrasound scanning probes, which had just become available. I attended all ophthalmic B-scanning performed at Cornell's ophthalmic ultrasound scanning service, led by Professor D. Jackson Coleman, and reviewed all formal reporting, gaining extensive experience in all aspects of ophthalmic B-scanning.

During the ongoing development of Cornell's VHF digital ultrasound technology, I began to apply it to assess the complications of corneal refractive surgery. In early 1992, Professor Stephen Trokel referred a group of patients to me for diagnostic assessment of Central Islands after photorefractive keratectomy (PRK). This was a newly identified phenomenon, which had started to occur during the US FDA Phase II clinical PRK trials. At that time, there was no understanding as to their aetiology or treatment, let alone prevention. This "clinical" emergency led me to rapidly develop a 3D mapping technique for the epithelium, with which I was able to demonstrate that Central Islands were occurring in two distinct clinical sub-groups: the first was epithelial heaping in the centre of the cornea, the second was due to central stromal bumps. The latter was subsequently found to occur as a result of a corneal smoke plume blocking oncoming laser pulses in the central cornea. This research led VISX to develop algorithms for the addition of extra pulses in the centre of the cornea. The extra pulses would mitigate the formation of Central Islands, relying on the epithelial capability for stromal surface smoothing.

**Residency in Ophthalmology.** (1993-1996) I was resident in ophthalmology at the *Mount Sinai School of Medicine, New York, New York* (Chairman: Steven Podos, MD, Residency Director: Robert Fischer, MD). Mount Sinai's residency is considered to be one of the top programs in the United States. The residency clinical experience is divided into equal thirds among the tertiary referral case load of the Medical School hospital itself, the Bronx Veterans Administration Hospital (very busy outpatient and surgical case loads), and Elmhurst Hospital in Queens which is a city hospital (providing very busy outpatient and surgical case loads). Elmhurst is a Level I trauma centre serving as a catchment area for one million people in a relatively "rough" neighborhood of Queens, and thus providing significant trauma and emergency department experience. During my third year I was Chief Resident, and rotated among the three hospitals, gaining broad surgical experience in the wide range of ophthalmic surgical sub-specialties. In most US based residency programs, every procedure

performed by a resident is done under Consultant (Faculty) supervision, "skin-to-skin" (there are no resident-on-resident cases).

As Chief Resident, my surgical training and primary surgeon skills acquired ranged from performing 15 minute topical/small incision/foldable phacos (relatively avant-garde in 1995), to advanced oculoplastics under the guidance of Professor Murray Meltzer. As primary surgeon, I performed operations such as a paediatric blepharophymosis correction procedure (involving a medial canthal Moutarde double z-plasty, cantilevered titanium T-plates to correct the telecanthus and bilateral fascia lata frontalis slings), and a bilateral symblepharon repair post Stevens Johnson Syndrome (with buccal mucosa and hard palate grafting). My residency training included all common general ophthalmic procedures such as DCR's, trabeculectomy, deep sclerectomy (mini-fellowship under Françoise Valtot, Hôpital St. Joseph, Paris France), eyelid procedures (ectropion, entropion, tumour resection, blepharoplasty), squint, medical retinal laser procedures, and some vireo-retinal procedures as primary surgeon. As Chief Resident, I performed 3 PKPs, one of which comprised consisted of a triple procedure.

During residency, through special dispensation from Mount Sinai Hospital Medical School, I retained an appointment as **Visiting Fellow** at the Department of Ophthalmology of the Weill Medical College of Cornell University. This enabled me to continue, on a part-time basis, my work on the VHF digital ultrasound scanning.

On completion of my residency at Mount Sinai in July of 1996, I returned to Cornell for another year. My appointment was initially as **Instructor in Ophthalmology**, and subsequently as **Assistant Professor of Ophthalmology**, and **Director of Research in Refractive Surgery**. My responsibilities were to run a "complications of refractive surgery" service and to continue the development of the VHF ultrasound technology. It was during this period that we improved on the rectilinear scanner and developed the first VHF digital ultrasound arc B-scan device, specifically designed for anterior segment scanning. During that year I was also involved in VHF ultrasound scanning for the tertiary referral faculty practice at Cornell. I gained further experience in complex cases requiring anterior segment VHF ultrasound diagnosis, such as anterior segment tumors, hypotony, chronic iritis following cataract or other anterior segment surgery, trauma and glaucoma--including deep sclerectomy--and the functional anatomy of blebs.

In 1997, reports from South America of high volume LASIK results were beginning to be presented at international congresses. There was little LASIK being performed in North America, and in general there was a distinct lack of formal training in the field of refractive surgery. Therefore, I decided to utilize my fluent Spanish, and applied for funding to undertake a self-designed refractive surgical fellowship program in South America. Funded as a **Paul Keyser International Scholar**, (Pan-American Association of Ophthalmology), I set up a unique, two-month refractive surgery fellowship program in South America. My goal was to learn techniques from the pioneers and world leading refractive surgeons. This experience provided me with an unparalleled training in the fundamentals of then current refractive surgical techniques and the management of complications.

**Paul Keyser Scholar; Refractive Surgical Fellowship.** (August-September 1997). I spent time in clinic and operating with Roberto Zaldivar in Mendoza, Argentina, observing his high efficiency day-case centre where he routinely performed 10 phacos and 35 LASIK procedures in the space of 3 hours. I then spent three weeks with Dr. Maria-Clara Arbelaez, in Cali, Colombia, a disciple of Luis Ruiz, MD who was recognised as one of the leading LASIK surgeons at that time. I was able to observe Alberto Chacon, MD at the Instituto de Cornea in Bogota, Colombia. Dr. Chacon, a cornea specialist, had developed numerous techniques to help correct many of the early radial keratotomy and trapezoidal keratotomy complications of the 80's. He presented (or showed) many of his patients in whom he surgically managed the complications of multiple incisional refractive keratotomy by compression sutures, wedge resection, and corneal cerclage. Finally, I spent 3 weeks with Jose Ignacio Barraquer and Carmen Barraquer, at the Clinica Barraquer in Bogota, Colombia. Having studied J.I. Barraquer's 1980 textbook on keratomileusis (in Spanish), it was an exceptional

experience to be able to ask questions and learn directly from the author and father of lamellar corneal refractive surgery. Understanding the core principles and the basic science behind microkeratome design and operation, corneal lamellar tissue handling, and the management of complications was quite different under the tutelage of those who literally "wrote the book" on keratomileusis. Dr. Arcienegas provided insight into the breadth of incisional corneal refractive surgery techniques, albeit techniques that are more of historical value now. Grand Rounds at the Instituto Barraquer showed a culture amongst the residents of deep academic commitment to the understanding of refractive surgery from the bottom up: as one would expect of any surgeon for any sub-specialty. I observed Carmen Barraquer and several other surgeons in surgery performing LASIK, PKPs and phaco. The sum total of this fellowship was that in preparation for my formal University based fellowship training in cornea and refractive surgery, I had been exposed to over 500 refractive surgical procedures, performed by the top authorities of the day.

**Cornea, External Disease, and Refractive Surgery Fellowship.** (1997–1999). In October of 1997, equipped with the prototype VHF digital ultrasound arc B-scanner, I arrived in Vancouver Canada to begin a 16 month Fellowship at the University of British Columbia in Cornea, External Diseases, and Refractive Surgery. My time was divided amongst cornea and external disease clinic, corneal transplantation surgery with Simon P. Holland, MB MRCP FRCOphth FRCSC, and cataract and refractive surgery with Hugo Sutton, MD FRCSC.

Hugo Sutton is Clinical Associate Professor at UBC, a high volume phaco surgeon, and North American pioneer in laser refractive surgery. Dr. Sutton had already performed upward of 5,000 PRK procedures by 1997. By October 1997, with several hundred LASIK procedures experience, Dr. Sutton was one of the most experienced North American LASIK surgeons. After observation of approximately 600 LASIK procedures, I began performing LASIK surgery. My first 256 procedures were fully supervised by Dr. Sutton. Over the following 4 years, I performed over 6,000 laser refractive procedures, 95% of them LASIK. Dr. Sutton's cataract practice continued into 1988, and I performed 196 topical small incision phaco foldable-PCIOL procedures, fully supervised.

Under the supervision of Simon P. Holland and other cornea faculty at UBC, I worked two days per week at the University based cornea practice which serves as the primary tertiary referral centre for the whole of British Columbia. I gained experience in cornea and external diseases, contact lens, corneal transplantation, and the management of complex corneal surgical and anterior segment surgery.

**Director of Clinical Operations,** LASIK Vision Corporation, Vancouver, BC. (1999).

On completing the Fellowship at UBC, I was offered this position in what was at the time, a three clinic Canadian chain providing high-volume laser refractive surgery. The company had further expansion plans in Canada, planning to open one new clinic approximately every month. By the end of the summer of 1999, there were ten LASIK Vision clinics operating in Canada. As Director of Clinical Operations, my responsibilities included medical protocol development, development of surgeon training systems and clinical staff training protocols. In addition to these duties, I was an operating surgeon at the Vancouver clinic, performing laser refractive surgery. I was clinically responsible for overseeing and advising on all complications referred-in by company surgeons. Under my direction, early clinical trials had been started, involving the Bausch & Lomb Topolink system incorporating epithelial thickness profiles derived from VHF digital ultrasound scanning.

**National Medical Co-Director,** LASIK Vision Corporation, Vancouver, BC. (September 1999 – August 2000).

The final stages of the Canadian expansion of the LASIK Vision Corporation led to a total of 15 clinics in Canada, performing a surgical volume equivalent to approximately 75,000 eyes per year. I instigated and developed a Medical Advisory Board to oversee the development of medical standards, surgeon and staff training, and accreditation as well as medical technology assessment.



I headed a team that was set up to do a time-flow study analysis of high volume surgical clinic flow, to determine the optimum number of procedures that could be performed per day per surgeon adhering to the highest possible standard of care. This work led to enhancements in clinic design, informed consent systems, and accurate staffing levels.

**Professeur Associé en Ophtalmologie**, Pole Hospitalo-Universitaire d'Ophtalmologie St. Antoine - XV-XX, University of Paris VI; Faculty of Medicine St. Antoine. (September 1999 to September 2000). Concurrent with my commitments at LASIK Vision Corporation, I had applied and succeeded in obtaining full professorship in ophthalmology at the University of Paris (VI) at the Quinzes-Vingts hospital in Paris. The grading of the position was set at the highest level in the hierarchy of the French academic system (level I, class I). During this tenure I spent approximately two weeks in eight in Paris, lecturing, supervising surgery, directing research projects, and supervising a DEA (Diplôme d'Etudes Approfondis) candidate in her thesis work on the Orbscan II topography system. I set up a prototype VHF digital ultrasound scanner in Paris, and ran regular complication clinics for the refractive surgery and glaucoma services. This scanner still remains at the Quinzes-Vingts under my direction.

**International Medical Co-Director**, LASIK Vision Corporation, (August 2000 – April 2001).

In preparation for the US expansion, and the necessity for recruitment of a large number of new surgeons, I led the development of a surgeon certification and accreditation course, designed to help surgeons, already experienced in LASIK, to become well rounded, academically current, expert specialists. The course consisted of three sections: didactic, observational, and proctored surgery modules. Over 80 surgeons were trained during the year 2000. The LASIK Vision protocols developed, together with this induction course, provided a highly controlled, evidence-based practice setting in which this uniformly employed surgical protocol proved to decrease complication rates as well as the rate of loss of BSCVA. Evidence of this achievement was presented in San Diego, CA at the ASCRS 2001. In addition, I aimed to develop a culture of research and development within this high-volume, commercial enterprise.

The company business plan called for the opening of fifteen new clinics in the second quarter of 2000 as the first phase of expansion into the United States. Given this very aggressive expansion program, I was assigned the task of creating a team consisting of a core of allied-health professional "trainers" who would systematically educate and prepare incoming staff to work in these new clinics. Fifteen clinics were opened between March and July of 2000, each performing approximately 500 procedures in the first month.

I also was responsible for originating, designing, and programming the first multi-clinic refractive surgery quality control software system – PIQASO (performance indicators for quality assurance and surgical outcomes). This system, along with the addition of a full time statistician and a database manager, was implemented in the spring of 2000. By year's end PIQASO had already collected data on over 68,000 eyes as an active surveillance sample of the ongoing surgical work in all clinics. Monthly and quarterly reports of quality of care and performance were generated by clinic and by surgeon. Cluster analysis methods were used to define "outliers" amongst surgeons or clinics from the median standard. I set up quality assurance systems to investigate and remedy clinical system faults detected by PIQASO. During this period the company grew to 450 employees and 30 clinics. Thanks to these systems set in place, all clinic openings were shown to have taken place with no adverse incidents, and quality control data demonstrated excellent operational standards, consistent throughout all clinics.

I set up and headed a medical risk management department, responsible for actively managing day-to-day adverse events, formally defining and reporting clinic problems, and coordinating with the quality assurance program.

Following the initial US expansion phase, a new senior management restructuring resulted in my appointment as **Chief Medical Officer** (September 2000 – April 2001). The Medical Advisory Board was dissolved, and I was made Chairman of a new, *Medical Standards Board*, consisting of university based, fellowship-trained refractive surgeons, whose task it was to continuously update and reevaluate the medical policies, procedures, and protocols. With the two positions combined, I became responsible for all medical aspects of the company. These included day-to-day operations, protocol development and implementation, surgeon and optometrist training, accreditation and re-accreditation, risk management, quality control, public relations, and technology evaluation.

Clinically I was still performing 'routine' laser eye surgery two days per week (approximately 300 procedures per month), and spent one day a week on continuing my clinical research with VHF digital ultrasound as well as wavefront technology applied to the treatment of the complications of refractive surgery. I trained three fellows in refractive surgery during the period 2000-2001. Dr. Sabong Srivannaboon went on to be director of refractive surgery at Siriraj University Hospital in Bangkok, Dr. Han Bor Fam became head of the cornea and refractive surgery unit at the university hospital Singapore, and Dr. Emma Cremonesi returned to Mexico City where she holds an appointment at the Instituto de Oftalmologia Conde de Valencia.

In November of 2001, I was head-hunted to become the lead medical consultant to Carl Zeiss Meditec for the development of their laser refractive technology. Based on this, and a number of personal as well as other positive professional factors, I decided to return to Europe, where I established the London Vision Clinic with one clear goal in mind: to construct a refractive surgical clinic where the standard of care, outcomes of surgery and safety of laser eye surgery were at the highest possible level. Concurrent with this we are beginning to set up an ambitious but in my view essential project for third-world vision care; the bringing of laser refractive surgery to those who need it most: people who cannot afford glasses. Through the London Vision Clinic Foundation we hope to eventually prove that laser eye surgery can be provided at very low cost to individuals who are technically blind because of their inability to afford glasses. This concept is new, and will take monumental efforts to make it a reality; however, we have already begun this work with a project in Nepal in conjunction with the Tilganga Institute of Ophthalmology and the Himalayan Cataract Project.

Last updated Feb 2012