

## Refractive Surgery 2014: Mission 20/20

### *The Annual Meeting of the International Society of Refractive Surgery*

Sponsored by ISRS

**Date:** Friday, October 17, from 8:00 AM to 5:25 PM  
Saturday, October 18, from 8:00 AM to 5:21 PM  
**Location:** Arie Crown Theater, McCormick Place, Chicago  
**Program Directors:** Sonia H Yoo MD and A John Kanellopoulos MD  
**Program Planning Group:** Daniel S Durrie MD, A John Kanellopoulos MD, Ronald R Krueger MD, Sonia H Yoo MD

**Mission Statement:** The mission of the 2014 Refractive Surgery Subspecialty Day is to provide comprehensive ophthalmologists and refractive, cataract, and corneal surgeons with a multi-disciplinary discussion of the current and evolving techniques and technology in cornea and lens-based refractive surgery. The sessions will highlight lens and corneal refractive surgery, and experts will debate on both sides of controversial subjects. Free papers and E-posters will focus on new and controversial topics.

**Target Audience:** The intended audience for this program is comprehensive ophthalmologists; refractive, cataract, and corneal surgeons; and allied health personnel who are performing or assisting in refractive surgery.

**Education Level:** Intermediate, Advanced

**Goal:** The goal of this program is to review comprehensively, the leading concepts, as well as to update participants on the evolving techniques and knowledge base of cornea and lens-based refractive surgery in 2014.

#### **Program Objectives:**

Upon completion of this activity, participants should be able to:

- Evaluate the latest techniques and technologies in refractive surgery
- Compare the pros and cons of various lens- and corneal-based modalities, including presbyopic and toric IOLs
- Identify the current status and future of laser refractive lens surgery using femtosecond lasers
- Describe the increasing importance of refractive surgery in the practice of every subspecialty in ophthalmology
- Identify evolving surgical approaches for presbyopia

#### **CME Accreditation**

The American Academy of Ophthalmology is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Academy of Ophthalmology designates this live activity for a maximum of 14 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Attendees registered as exhibitors, spouses, or guests are not eligible for CME credits.

**Submit an Abstract:** ISRS is renowned for its unsurpassed educational meetings. You can help ISRS maintain its outstanding reputation by submitting an abstract to present at the ISRS Subspecialty Day. From May 8 until June 11, 2014, abstracts will be accepted online at [www.isrs.org](http://www.isrs.org).

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#### **Friday, October 17, 2014**

7:00 AM CONTINENTAL BREAKFAST

8:00 AM Opening Remarks

Sonia H Yoo MD

A John Kanellopoulos MD

#### **Keynote Lecture**

8:05 AM FDA Update on LASIK

Malvina B Eydelman MD

## Section I: Corneal Crosslinking

Moderator: A John Kanellopoulos MD

Panelists: Theo Seiler MD PhD, Ronald R Krueger MD, R Doyle Stulting MD PhD

8:15 AM	Introduction and Self-assessment	A John Kanellopoulos MD
8:17 AM	Combining Crosslinking and Excimer Laser Normalization	Renato Ambrosio Jr MD
8:23 AM	Combining Prophylactic Crosslinking in Routine LASIK: Pro	Vance Michael Thompson MD
8:29 AM	Combining Prophylactic Crosslinking in Routine LASIK: Con	George D Kymionis MD PhD
8:35 AM	Refractive Customized Crosslinking Applications—Theory and Clinical Results	William J Dupps MD PhD
8:41 AM	Pediatric Crosslinking Application: Expanding Indications and International Clinical Data	Farhad Hafezi MD PhD
8:47 AM	Free Paper	TBD
8:52 AM	Free Paper	TBD
8:57 AM	Free Paper	TBD
9:02 AM	Free Paper	TBD
9:07 AM	Advocating for Patients	Stephanie Jones Marioneaux MD
9:12 AM	Discussion and Self-assessment	A John Kanellopoulos MD

### Keynote Lecture \*

9:24 AM	How Is Crosslinking Being Adopted in the United States?	Peter S Hersh MD
9:34 AM	REFRESHMENT BREAK	
10:14 AM	ISRS Awards	

## Section II: Presbyopia—Lasers vs. IOLs

Moderator: Ronald R Krueger MD

10:29 AM	Introduction and Self-assessment	Ronald R Krueger MD
10:31 AM	Overcoming the Compromises of Presbyopic Laser Vision Correction	Dan Z Reinstein MD
10:38 AM	Corneal Inlays are Better than Corneal Laser Solutions	Gustavo E Tamayo MD
10:45 AM	Small Aperture Inlays are the Least Compromising for Expanding Depth of Focus	Damien Gatinel MD
10:52 AM	Trifocal IOLs are the Most Effective in Presbyopic Cataract Surgery	John So-Min Chang MD
10:59 AM	LASIK and Monovision	Ioannis G Pallikaris MD
11:04 AM	Longitudinal Survey Comparing Patient Satisfaction with LASIK vs. Contact Lenses: 1 and 2 Year Surveys	Marianne O Price PhD
11:09 AM	Free Paper	
11:14 AM	Free Paper	
11:19 AM	Discussion and Self-assessment	Ronald R Krueger MD

## Section III: Video Lens Complications

Moderators: Amar Agarwal MD, William J Fishkind MD FACS

11:31 AM	Introduction and Self-assessment	Amar Agarwal MD
11:33 AM	Late Refractive Multifocal IOL / Capsular Bag Subluxation	Richard S Hoffman MD
11:38 AM	IOL Scaffold: For Nucleus and IOL Exchange	Roger F Steinert MD
11:43 AM	Posterior Chamber Rupture in a Refractive IOL Patient	David F Chang MD
11:48 AM	It Takes Two to Tango: Pre-Descemet Endothelial Keratoplasty with Glued IOL	Amar Agarwal MD
11:53 AM	Posterior Capsular Rupture	Robert H Osher MD
11:58 AM	Reusable Dislocated IOLs	Stratos Gotzaridis MD
12:03 PM	Discussion and Self-assessment	William J Fishkind MD FACS
12:15 PM	LUNCH	

## Section IV: Laser Refractive Lens Surgery on Trial: Is It Really Better?

Judge: Sonia H Yoo MD

Jury: Boris Malyugin MD PhD, Sheraz M Daya MD, Richard S Hoffman MD )

1:45 PM Introduction and Self-assessment  
1:47 PM Laser Surgery is More Efficient: Pro  
1:53 PM Laser Surgery is More Efficient: Con  
1:59 PM Discussion and Verdict  
2:02 PM Laser Surgery is Safer: Pro  
2:08 PM Laser Surgery is Safer: Con  
2:14 PM Discussion and Verdict  
2:17 PM Laser Surgery Yields Better Visual Outcomes: Pro  
2:23 PM Laser Surgery Yields Better Visual Outcomes: Con  
2:29 PM Discussion and Verdict  
2:32 PM Conclusion and Self-assessment

Sonia H Yoo MD  
Burkhard Dick MD  
Michael E Snyder MD  
Sonia H Yoo MD  
Kevin M Miller MD  
Shahzad I Mian MD  
Sonia H Yoo MD  
Zoltan Nagy MD  
Bonnie A Henderson MD  
Sonia H Yoo MD  
Sonia H Yoo MD

### **Break With the Experts**

2:35 PM - 3:20 PM

Cataract and IOL Complications

Amar Agarwal MD  
Douglas D Koch MD

Collagen Crosslinking

Theo Seiler MD PhD  
A John Kanellopoulos MD

Corneal Inlays

Ioannis G Pallikaris MD  
David R Hardten MD

Elevation Corneal Tomography

Renato Ambrosio Jr MD  
Roberto Pineda II MD

Laser Refractive Lens Surgery

Zoltan Nagy MD  
Eric D Donnenfeld MD  
William J Fishkind, MD FACS  
John A Hovanesian MD

Intracorneal Rings

Aylin Kilic MD  
Efekan Coskunseven MD

Laser Vision Correction Enhancements

R Doyle Stulting MD PhD  
J Bradley Randleman MD

Phakic IOLs

Alaa M Eldanasoury MD  
Gustavo E Tamayo MD

Planning IOL Powers

Bonnie A Henderson MD  
David F Chang MD

Presbyopic IOL Pearls

Damien Gatinel MD  
Robert J Cionni MD

Toric IOL Pearls

Roger F Steinert MD  
Neda Shamie MD

### **Section V: Interactive Consultations—Lens Refractive Surgery**

Moderator: John A Hovanesian MD

3:20 PM Introduction and Self-assessment

John A Hovanesian MD

3:22 PM )	Patient: "I Don't Want to Wear Reading Glasses After my Cataract Surgery. What are my Options?"	Jack T Holladay MD MSEE FACS
3:25 PM )	Doctor Response to: "I Don't Want to Wear Reading Glasses After my Cataract Surgery. What are my Options?"	Helen K Wu MD
3:28 PM )	Discussion	
3:35 PM )	Patient: "Are all These Tests and the Laser Really that Much Better than Regular Cataract Surgery?"	Kendall E Donaldson MD
3:38 PM )	Doctor Response to: "Are all These Tests and the Laser Really that Much Better than Regular Cataract Surgery?"	Karl G Stonecipher MD
3:41 PM	Discussion	
3:48 PM	Patient: "I Have Astigmatism and I Heard you Can Correct That at the Time of my Surgery. Tell me About That."	Louis D Skip Nichamin MD
3:51 PM	Doctor Response to: "I Have Astigmatism and I Heard you Can Correct That at the Time of my Surgery. Tell me About That."	Audrey R Talley-Rostov MD
3:54 PM	Discussion	
4:01 PM	Patient: "I'm Unhappy with the Outcome of my Surgery and Want to Sue!"	Eric D Donnenfeld MD
4:04 PM	Doctor Response to: "I'm Unhappy with the Outcome of my Surgery and Want to Sue!"	Kerry D Solomon MD
4:07 PM	Discussion	John A Hovanesian MD
4:14 PM	Conclusion and Self-Assessment	

#### **Section VI: ESCRS Symposium—All About PresbyLASIK**

Moderators: Roberto Bellucci MD, Ioannis G Pallikaris MD

4:16 PM	Introduction and Self-assessment	Roberto Bellucci MD
4:18 PM	Optical Problem of Multifocal Corneas	Pablo Artal MD PhD
4:26 PM	Biaspheric Ablation Profile in Ametropic Patients	Pierre Baudu MD
4:34 PM	Bilateral Hyperopic and Presbyopic LASIK	Andrea Ryan MBBS MRCS
4:42 PM	Discussion	
4:48 PM	Laser-Blended Vision for Presbyopia Correction	Dan Z Reinstein MD
4:56 PM	PresbyLASIK in the Pseudophakia	Thomas Kohnen MD PhD FEBO
5:04 PM	Applying and Avoiding PresbyLASIK	Ioannis G Pallikaris MD
5:12 PM	Discussion	
5:21 PM	Conclusion and Self-Assessment	Roberto Bellucci MD
5:23 PM	Closing Remarks	Sonia H Yoo MD A John Kanellopoulos MD

#### **Saturday, October 18, 2014**

7:00 AM	CONTINENTAL BREAKFAST	
8:00 AM	Opening Remarks	Sonia H Yoo MD A John Kanellopoulos MD

#### **Section VII: Corneal Video Complications**

Moderators: Amar Agarwal MD, Robert K Maloney MD

8:05 AM	Introduction and Self-assessment	Amar Agarwal MD
8:07 AM	Nightmare Case of Recurrent Epithelial Ingrowth After LASIK	David R Hardten MD
8:12 AM	The Complex Open Sky Triple Procedure	Alan N Carlson MD
8:17 AM	Flap Complications	Natalie A Afshari MD
8:22 AM	Descemet Membrane Endothelial Keratoplasty Nuances	Francis W Price Jr MD
8:27 AM	Contact Lens Assisted Crosslinking for Thin Corneas	Soosan Jacob FRCS
8:32 AM	Pseudophakic Corneal Edema	Sadeer B Hannush MD
8:37 AM	Discussion and Self-assessment	Amar Agarwal MD

**Keynote Lecture**

8:47 AM	Mitomycin-C: Uses and Abuses in Corneal and Refractive Surgery	Randy J Epstein MD
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**Section VIII: Interactive Consultations—Corneal Refractive Surgery**

Moderator: Ronald Luke Rebenitsch MD

Panelists: J Bradley Randleman MD, Marguerite B McDonald, Christopher L Blanton MD, George O Waring III MD FACS, Daniel S Durrie MD

8:57 AM	Introduction and Self-assessment	Ronald Luke Rebenitsch MD
8:59 AM	Panel Discussion	
9:49 AM	Conclusion and Self-assessment	Ronald Luke Rebenitsch MD
9:51 AM	REFRESHMENT BREAK and AAO 2014 EXHIBITS	

**Section IX: IOL Calculation/Astigmatism Management on Trial—Which Is the Best Procedure? \***

Judge: Ronald R Krueger MD

Jury: Stephen G Slade MD FACS, William W Culbertson MD, Jorge L Alio MD PhD

10:36 AM	Introduction and Self-assessment	Ronald R Krueger MD
10:38 AM	Traditional Methods for Astigmatism Magnitude Selection and Axis Alignment	Douglas D Koch MD
10:48 AM	Photographic/Topographic	Jonathan D Solomon MD
10:55 AM	3D Video Registration	Robert J Weinstock MD
11:02 AM	Intraoperative Automated Cyclorotation Adjustment (Verion)	Robert J Cionni MD
11:09 AM	Intraoperative Automated Cyclorotation Adjustment (Calisto)	Roger F Steinert MD
11:16 AM	Intraoperative Aberrometry (Talbot Moire)	Alan Richard Faulkner MD
11:23 AM	Intraoperative Aberrometry (Sequentially Shifting)	Jay Stuart Pepose MD PhD
11:30 AM	Discussion of Jury and Verdict	
11:45 AM	Conclusion and Self-assessment	Ronald R Krueger MD
11:47 AM	LUNCH and AAO 2014 EXHIBITS	

**ISRS President's Update**

1:17 PM	ISRS President's Update	Ronald R Krueger MD
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**Keynote Lecture**

1:19 PM	Keynote Lecture: Posterior Elevation Tomography for Keratoconus Screening	Mitchell P Weikert MD
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**Section X: New Technology in Corneal Diagnostics**

Moderator: A John Kanellopoulos MD

Panelists: Terry Kim MD, J Bradley Randleman MD, Arthur B Cummings MD

1:29 PM	Introduction and Self-assessment	A John Kanellopoulos MD
1:31 PM	Clinical Correlation of Topography, Tomography, and OCT in Cornea Imaging	Costas H Karabatsas MD
1:38 PM	Dynamic Scheimpflug Imaging	Cynthia Roberts PhD
1:45 PM	Cornea Epithelial Imaging: Correlating Epithelial Maps to Topography and Refraction	Aleksandar Stojanovic MD
1:52 PM	Cornea Densitometry and Ocular/Corneal Scatter Measurements	Roger Zaldivar MD
1:59 PM	Brillouin Corneal Imaging and Biomechanical Assessment	Roberto Pineda II MD
2:06 PM	Interferometry a Quantitative Measure for Corneal Biomechanics: Recent Advances	John Marshall PhD
2:13 PM	Free Paper	TBD
2:18 PM	Free Paper	TBD
2:23 PM	Free Paper	TBD
2:28 PM	Free Paper	TBD

2:33 PM	Discussion and Self-assessment	A John Kanellopoulos MD
2:48 PM	REFRESHMENT BREAK	

## Section XI: The Journal of Refractive Surgery's Hot, Hotter, and Hottest: Late Breaking News

Moderator: J Bradley Randleman MD )

3:31 PM	Introduction and Self-assessment	J Bradley Randleman MD
3:33 PM	Introduction of the Troutman Prize	J Bradley Randleman MD
3:38 PM	Troutman Prize	
3:53 PM	Keratoconus Management: Long-Term Stability of Topography-Guided Normalization Combined With High-Fluence Crosslinking Stabilization (The Athens Protocol)	A John Kanellopoulos MD
4:00 PM	OCT Combined With Videokeratography to Differentiate Mild Keratoconus Subtypes	Yaron S Rabinowitz MD
4:07 PM	Femtosecond Cataract Innovations	Burkhard Dick MD
4:14 PM	Photo-Activated Chromophore for Infectious Keratitis Crosslinking and the Impact of Fluorescein on the Antimicrobial Efficacy of Photoactivated Riboflavin in Corneal Collagen Crosslinking	Farhad Hafezi MD PhD
4:21 PM	Free Paper	TBD
4:26 PM	Free Paper	TBD
4:31 PM	Free Paper	TBD
4:36 PM	Free Paper	TBD
4:41 PM	Free Paper	TBD
4:46 PM	Free Paper	TBD
4:51 PM	Free Paper	TBD
4:56 PM	Discussion and Self-assessment	J Bradley Randleman MD
5:11 PM	JRS QuikFacts	J Bradley Randleman MD
5:16 PM	Closing Remarks	Sonia H Yoo MD
		A John Kanellopoulos MD
5:21 PM	ADJOURN	