



**European Symposium**  
**06-09 June, 2019**  
**ME Sitges Terramar Hotel – Sitges, Spain**

**Program Chair:**

**Arthur Cummings, MD**  
**Dan Reinstein, MD**

**Planning Committee:**

**Jorge Alió, MD**  
**Hans Blickensdörfer**  
**Francesco Carones, MD**  
**Sheraz Daya, MD**  
**Prof. H Burkhard Dick, MD**  
**Aylin Kilic, MD**  
**Erik Mertens, MD**  
**Tobias Neuhann, MD**  
**Rolf Schwind**  
**Pavel Stodulka, MD**

**THURSDAY, 06 JUNE**

**18:30 – 20:30 AECOS Reception and Exhibits**

**FRIDAY, 07 JUNE**

**07:30 Exhibits and coffee**

**08:00 **OPENING SESSION****  
**Welcome and Update on AECOS Europe**

**Burkhard Dick, MD**  
*President, AECOS Europe*

**08:15 Ophthalmology History of Barcelona**

**Rafael Barraquer, MD**

**SESSION 1: MEDICAL DEVICE REGULATIONS IN EUROPE**

**Moderators: Kris Morrill and Michael Mrochen, PhD**

**Panel: Hans Blickensdörfer, Prof. Nikica Gabric PhD, MD**  
**Dirk Muelhoff, Rolf Schwind**

**08:30 Medical Device Regulation in Europe**

**Gert Bos PhD**

**08:45 Discussion**

08:55	<b>SESSION 2: AECOS INNOVATION FORUM – The Shark Tank</b> <i>(seat panel at 08:55; Moderators explain presentations are 5 min followed by 5 min panel discussion, then Vote)</i> <b><u>Audience votes via App:</u>    YES    NO    or    TOO EARLY TO TELL</b>	
	<b><u>Moderators:</u> Lucio Buratto, MD and Andy Corley</b> <b><u>Panel:</u> Sri Ganesh MD, Erik Mertens MD, Rajesh Rajpal MD, Dan Reinstein MD</b>	
09:00 (09:05)	<b>Andorra Dry Eye Formula: New Treatment Option</b> Discussion	Ludger Hanneken, MD
09:10 (09:15)	<b>Ophtec Presbyopia Correcting Lens</b> Discussion	Tiago Monteiro, MD
09:20 (09:25)	<b>Corneal Collagen Mapping</b> Discussion	Aylin Kilic, MD
09:30 (09:35)	<b>STROMA (Iris Colour Change)</b> Discussion	Gregg Homer, PhD
09:40 (09:45)	<b>Corneal Stem Cell Therapy</b> Discussion	Jorge Alió del Barrio, MD
09:50 (09:55)	<b>MicroOptix - Minimally Invasive Glaucoma Device</b> Discussion	Burkhard Dick, MD
10:00 (10:05)	<b>LensGen: Curvature Changing, Fluid-Optic IOL</b> Discussion	Ramgopal Rao
10:10 (10:15)	<b>New Premium Complementary ARTIS IOLs: Improved Diffractive Profiles for EDOF</b> Discussion	Fannie Castignoles, PhD
10:20 (10:25)	<b>Robotic Femtomatrix Ultra-Fast Laser Technology for Cataract Surgery</b> Discussion	Pavel Stodulka, MD
10:30 (10:35)	<b>IOL Mask Generator</b> Discussion	Holger Lubatschowski, PhD
10:40 (10:45)	<b>Accommodation Restoration Using the FS Laser in Human Eyes</b> Discussion	Omid Kermani, MD
10:50	<b>Final Discussions and Thanks to All Presenters</b>	
10:55	<b>BREAK</b>	
11:20	<b><u>Keynote:</u> Wavefront Revisited</b> <i>(3 minute Intro, then Keynote)</i>	Damien Gatinel, MD
11:33	<b>Discussion</b>	



**SESSION 5: VIDEO GRAND ROUNDS: Therapeutic Corneal Refractive Surgery**

*(6 min video, 2 min discussion)*

**Moderators: Scott MacRae, MD and Dan Reinstein, MD**

**Panel: Ashraf Armia MD, James Katz MD, Omid Kermani MD, Matthias Maus MD, Jose Vargas MD**

14:35	Corneal Pigmentation	Jorge Alió, MD
14:41	Discussion	
14:43	Transepithelial PRK	Aleks Stojanovic, MD
14:49	Discussion	
14:51	Stromal Topography Guided PRK	Riccardo Vinciguerra, MD
14:57	Discussion	
14:59	Visco PRK	Andreas Höhn, MD
15:05	Discussion	
15:07	<b><u>Keynote:</u> The Corneal Epithelium in Refractive Surgery and Epistrom</b>	Dan Reinstein, MD
	<b>- The Future of Predictive Modelling for Therapeutic Refractive Surgery</b>	
15:17	Discussion	

15:20 **BREAK**

**SESSION 6: THE JUDGEMENT DAY** *(20 min total for each topic)*

15:40	<b><u>Docket 001:</u> Same Day Bilateral Phakic IOL Surgery</b>	
	<b><u>Judge:</u> The Honorable John Marshall, PhD</b>	
	<b><u>Jury:</u> Gerd Auffarth MD, Sheraz Daya MD, Burkhard Dick MD, Matteo Piovella MD, William Trattler MD</b>	
	<b><u>Pro:</u> Erik Mertens, MD</b> <i>(5 min)</i>	
	<b><u>Con:</u> Suphi Taneri, MD</b> <i>(5 min)</i>	
	<b>Discussion</b> <i>(10 min)</i>	
16:00	<b><i>(Change Jury)</i></b>	
16:05	<b><u>Docket 002:</u> Presbyopia Correction: Corneal vs Lens Based Refractive Surgery</b>	
	<b>in Non-Cataract 50-60 Year Olds</b>	
	<b><u>Judge:</u> The Honorable John Marshall, PhD</b>	
	<b><u>Jury:</u> Detlev Breyer MD, Jørn S. Jørgensen MD, Dan Reinstein MD, Sheri Rowen MD,</b>	
	<b>Fernand De Wilde MD</b>	
	<b>Corneal:</b> Arthur Cummings, MD <i>(5 min)</i>	
	<b>Lens Based:</b> Julian Stevens, MD <i>(5 min)</i>	

**Discussion** (10 min)

16:25 Introduction: AECOS Industry Achievement Lecture Dan Reinstein, MD  
16:30 History and Evolution of Wavefront Guided Refractive Surgery Dan Neal, PhD

16:45 **AECOS Adjourns. Refreshments in the Exhibit Area**

**SATURDAY, 08 JUNE**

07:30 Coffee

08:00 Update on AECOS America William Trattler, MD  
President, AECOS America

**SESSION 7: GROWING REFRACTIVE SURGERY** (8 min each)

*Moderators: Arthur Cummings, MD and Burkhard Dick, MD*

*Panel: Jorge Alió MD, John Doane MD, Jørn S. Jørgensen, MD, Florian Kretz MD, Prof. Zheng Wang MD*

08:25 Driving Patient Awareness Hans Blickensdörfer  
08:33 Innovation, Ideation, Sharing Ideas Guy Kezirian, MD  
08:41 Surgeon Collegiality Wolfgang Riha, MD  
08:49 Patient Flow Analysis Laszlo Kiraly, MD  
08:57 Training Surgeons in Very High Volume Practice Prof Zheng Wang, MD  
09:05 Discussion

09:30 **INDUSTRY PANEL**

*Moderator: William Link, PhD*

*Panel: Hans Blickensdörfer, Jean-Claude Dubacher, Seba Leoni, Dirk Muelhoff,  
Domenic von Planta, Calvin Roberts MD, Erik Jan Worst*

How can/will industry assist with establishing and funding formal training programs for younger ophthalmologists, i.e. the next generation of refractive surgeons, especially with regard to laser vision correction.

How can industry work together with key opinion leaders to ensure that best possible data is put forward with the introduction of breakthrough technologies, protecting the KOL from making or inferring unwarranted claims, etc. A question of ethics among industry and technology early adopters.

10:10 **BREAK**

**SESSION 8: WILL THESE TECHNOLOGIES SURVIVE THE MARKET?** (4 min presentation, 4 min discussion)

*Moderators: Arthur Cummings, MD and Damien Gatinel, MD*

*Panel: Carlos Buznego MD, William Link PhD, Matthias Maus MD, Sathish Srinivasan MD,  
Roberto Zaldivar MD*

10:30 CAPSULaser Pavel Stodulka, MD  
(10:34) Discussion

10:38 (10:42)	Zepto Discussion	Florian Kretz, MD
10:46 (10:50)	Epi-On Crosslinking Discussion	William Trattler, MD
10:54 (10:58)	LipiFlow/Miboflo/iPL Discussion	Mark Kontos, MD
11:02 (11:06)	Femto-Cataract Surgery Discussion	Gerd Auffarth, MD
11:10 (11:14)	Evolution of Toric IOL Alignment: IntelliAxis Refractive Discussion	Mitchell Jackson, MD
11:20 (11:35)	<u>Keynote</u> : Refractive Indexing Cornea Discussion	Scott MacRae, MD

11:55 **BREAK FOR LUNCH**

12:05 – 12:50 ***Lunchtime Promotional Symposium: (Schwind Eye-Tech Solutions)***  
*Moderator: Prof. John Marshall*  
*Faculty: Allon Barsam MD, Zheng Wang MD, Lazlo Kiraly MD, Roberto Zaldivar MD*

**SESSION 9: CHALLENGES OF TRAINING YOUNG OPHTHALMOLOGISTS IN REFRACTIVE SURGERY**

***Moderators: Sheraz Daya, MD and Dan Reinstein, MD***

***Panel: Jorge Alió MD, Sri Ganesh MD, Damien Gatinel MD, Scott MacRae MD***

**Perspectives from the Young Ophthalmologist: (5 min ea)**

13:00 Jorge Alió del Barrio, MD  
13:05 Allon Barsam, MD  
13:10 Sheetal Brar, MD  
13:15 Alastair Stuart, MD  
13:20 Riccardo Vinciguerra, MD  
13:25 Marcus Ang, MD

13:30 Discussion

14:00 ***Introduction of the Joseph Colin Award***  
**JOSEPH COLIN AWARD LECTURE**

***Burkhard Dick, MD***  
***Arthur Cummings, MD***

**SESSION 10: BREAKING NEWS - Final Clinical Study Data, Presented for the First Time**

*(6 min presentation, 2 min discussion)*

***Moderators:*** Gerd Auffarth, MD and Roberto Zaldivar, MD

***Panel:*** Marcus Ang MD, Shamik Bafna MD, Rafael Barraquer MD, Rajesh Rajpal MD, Sheri Rowen MD

14:20	RxSight	Sathish Srinivasan, MD
14:26	Discussion	
14:28	Sulcoflex Trifocal (Rayner)	Allon Barsam, MD
14:34	Discussion	
14:36	Capsule Fixated IOL	Julian Stevens, MD
14:42	Discussion	
14:44	Prospective Comparison of IC-8 Versus Symphony: Final Data	Ronald Gerste, MD
14:50	Discussion	
14:52	Using OptimEyes for LRI Planning	Harald Studer, PhD
14:58	Discussion	
15:00	Allotex	Arthur Cummings, MD
15:06	Discussion	
15:08	Streamlight One-Touch PRK	Fernando Correia, MD
15:14	Discussion	
15:16	Teneo One-Touch PRK	Sheraz Daya, MD
15:22	Discussion	

15:25 **BREAK**

**SESSION 11: ETHICS AND GDPR**

***Moderators:*** Sheraz Daya, MD and Julian Stevens, MD

***Panel:*** Jorge Alio MD, Juan Álvarez de Toledo MD, Samuel Levinger MD,  
Kris Morrill, Michael Mrochen PhD

15:45	All You Wanted to Know About GDPR But Were Afraid to Ask	Gerry Egan
15:55	Ethics of Offering Tiered Pricing for Refractive Surgery	Alastair Stuart, MD
16:02	Ethics of Doing Refractive Surgery While Still Wearing Glasses	Sri Ganesh, MD
16:09	Ethics of Genetics in Ophthalmology	John Marshall, PhD
16:16	Discussion	

## **SESSION 12: THE JUDGEMENT DAY**

**16:30**      **Docket 003: Femtosecond Laser Cataract Surgery**

**Judge:** *The Honorable John Marshall, PhD*

**Jury:** *Detlev Breyer MD, Burkhard Dick MD, John Doane MD, Johann Kruger MD, Sunil Shah MD*

**Why I Use It:**                      Francesco Carones, MD (5 min)

**Why I Dont/Stopped:**              Jorge Alio, MD (5 min)

Discussion

**16:50**      **Keynote:** Update on Genetic Screening for Refractive Surgery                      John Marshall, PhD

**17:00**      **AECOS ADJOURNS**

**19:30 - 22:30**      **AECOS Reception and Dinner** (*ME Sitges Terramar Hotel*)  
Promotional items sponsored by Ziemer

## **SUNDAY, 09 JUNE**

**07:30**      Coffee

**08:30**      **2018 AECOS European Research Award: Project Report**  
*"Diabetic Retinopathy Screening via Tear Film Biomarker"*                      Sven Schnichels, MD

**08:40**      **Presentation of 2019 AECOS European Research Grant**  
Erik Mertens, MD  
*Incoming President, AECOS Europe*

**08:45**      Overview of 2019 Research Grant Topic: "Effect of SMILE and Femto-LASIK on Inflammatory Markers of Dry Eye Disease"  
Teresa Tsai, PhD

## **SESSION 13: VIDEO GRAND ROUNDS:** (5 min videos, 2 min discussion)

**Moderators:** *Kuldev Singh, MD and Rafael Barraquer, MD*

**Panel:** *Johann Kruger MD, Samuel Levinger MD, Juan Álvarez de Toledo MD, Suphi Taneri MD*

**08:50**      Challenging Catract Surgery: Dropped Nucleus and Trifocal                      Matteo Piovella, MD  
**08:55**      Discussion

**08:57**      Multi Photon Imaging of Cornea                      Aylin Kilic, MD  
**09:02**      Discussion

**09:04**      Risky, Yet Worth It!                      Ashraf Armia, MD  
**09:09**      Discussion



09:11 09:16	Tricky IOL Exchange Surgeries - Revealed Discussion	Gerd Auffarth, MD
09:18 09:23	Mouth to Eye Stem Cell Transplantation Discussion	Samer Hamada, MD
09:25 09:30	SMILE Ectasia: When There is Trouble, Put It Back Discussion	Sri Ganesh, MD
09:32 09:37	MIGs From My Perspective Discussion	Kuldev Singh, MD
09:39 09:44	Circular Keratotomy for Keratoconus Discussion	Detlev Breyer, MD
09:46 09:51	Aphakia Correction. An Old Way With A New Technology Discussion	Lucio Buratto, MD
09:53 09:58	New Concepts in Toric IOL Alignment Discussion	Roberto Zaldivar, MD
<b>SESSION 14: PRESBYOPIA - FAKE NEWS AND TRUE STORIES</b>		
<b><i>Moderators: Burkhard Dick, MD and Dan Reinstein, MD</i></b>		
<b><i>Panel: John Doane MD, Jørn S. Jørgensen, MD Florian Kretz MD, Alan Reider Esq, Sheri Rowen MD</i></b>		
10:00	Fake Peer-Reviewed Science (publications, etc.)	Sheraz Daya, MD
10:08	Fake News and True Stories on Retinal Considerations in CLE	Paulo Stanga, MD
10:16	Fake News and True Stories of Corneal Presbyopia Correction	Alastair Stuart, MD
10:24	Fake News and True Stories of Premium Lenses	Jorge Alió, MD
10:32	Fake News and True Stories of Corneal Inlays	Wayne Crewe-Browne, MD
10:40	Fake News and True Stories about KAMRA after MF IOL?	Shamik Bafna, MD
10:48	Discussion	
11:00	<b>BREAK</b>	

### **SESSION 15: TECHNOLOGICAL AIDS TO LENS POWER AND SIZE PREDICTION**

***Moderators:*** Gerd Auffarth, MD and Joaquín Fernández, MD

***Panel:*** Francesco Carones MD, James Katz MD, Pavel Stodulka MD, Jose Vargas MD, Roberto Zaldivar MD

11:20	New Method to Evaluate the Accuracy of Intraocular Lens Power	Joaquín Fernández, MD
11:28	Optimizing Outcomes with Novel Technologies & Formulae	Norbert Peszteniehrer, MD
11:36	Nailing the Target, Post IOL Refractive Indexing	Burkhard Dick, MD
11:44	What is the Safe Lens Separation from ICO to Crystalline Lens	Roberto Zaldivar, MD
11:52	ICL Sizing by Anterior Segment OCT: Spur-to-Spur vs Sulcus-to-Sulcus	Erik Mertens, MD
12:00	ICL Sizing by VHF Digital Ultrasound: A New Posterior Chamber Based Algorithm	Dan Reinstein, MD
12:08	Discussion	

### **SESSION 16: BEST LESSONS I LEARNED IN THE LAST YEAR**

***Moderators:*** Sheraz Daya, MD and Erik Mertens, MD

***Panel:*** John Doane MD, Samer Hamada MD, Aylin Kilic MD, Matthias Maus MD, William Trattler MD

12:20	Benefits and Disadvantages of a Small Aperture IOL	Matteo Piovella, MD
12:26	What Adds Tangible Value to the Practice	Wolfgang Riha, MD
12:32	Multidisciplinary Practice	Francesco Carones, MD
12:38	Use of Ray Tracing in Laser Refractive Surgery	Michael Mrochen, PhD
12:44	Business Development, Best Practices	Erik Mertens, MD
12:50	The Power of the Patient Experience	Amanda Cardwell Carones
12:56	Discussion	
13:15	Closing Comments	Arthur Cummings, MD Erik Mertens, MD Dan Reinstein, MD
13:30	<b>AECOS Adjourns</b>	