Live surgery symposium: New trends in anterior segment surgery

5–6 October 2012, Lugano/Switzerland

Programme

www.esaso.org
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Welcome by the Organising Committee

Dear Delegate,

On behalf of the Board of Directors of ESASO we are honoured to welcome you to the Live Surgery Symposium on Anterior Segment Surgery taking place at the Aula Magna of the Università della Svizzera italiana (USI) in Lugano.

Our Scientific Committee has engaged recognised experts in cataract and refractive surgery from all over the world to provide you with the latest advancements in femtosecond laser, cross-linking, and keratoconus surgery. Expect transmission of live surgeries in the unique 3D technology from the prestigious institute CAMO (Centro Ambrosiano Oftalmico) in Milano, and the Ospedale Regionale di Lugano – Civico e Italiano in Lugano. This educational event, accredited with 9 European CME credits, is rounded up with 28 plenary sessions and five panel discussions led by the members of this outstanding faculty.

We hope you will find Lugano a charming and interesting city that combines the southern lifestyle of Switzerland with an Italian touch. Come and experience Ticino’s cuisine and its gastronomic reputation!

Welcome in Lugano and have a pleasant stay.

Yours,

Organising Committee
Welcome by the Mayor of the City of Lugano

I welcome on behalf of City of Lugano the “Live Surgery Symposium: new trends in anterior segment surgery”, that represents the challenge of clinical and surgical researches in ophthalmology field.

Attending this Symposium will be a great experience for all of you, because you will be part of the future of the new trends in surgery and, also, you will experience the most enjoyable stay discovering City.

I have firmly believed in the presence of the advanced studies in ophthalmology, since the education in this field is not yet developed and the research challenges are really a lot.

The City of Lugano has full-fledged supported the project of the “European School in Advance Studies in Ophthalmology” proud of the presence here of the world’s most highly qualified researchers and experts. The presence of the School and the Symposiums gives to our City a central position in the modern knowledge-based society.

I also believe that ESASO will give an impulse to the near future establishment of the Master degree in Medicine, that will become part of the health facilities specialised in stem cells, oncology and biotechnology research which having played an important role as incubators in analysis and applications in various cutting-edge health sectors. Lugano has developed rapidly becoming part of an international network of exchange and research centers in the life sciences and biotechnology sectors, with a prestigious academic and congress offer. I would like to remember that our renewed heart center, Cardiocentro Ticino, has become now Associated Institute with UniversitätsSpital Zürich, as the unique education center of medicine specialized in cardiovascular and hearth illness in Ticino.

I wish to welcome in Lugano other innovation and advanced centers, new talents and new challenges to make a great worldwide impact in the health research.

Thank you very much to all of you for having believed in this project and put your passion and expertise to enhance the clinical research in the ophthalmology. You make the difference. A particular acknowledgement to MD Giuseppe Guarnaccia and his team for their great job and their efforts in enhancing ESASO project.

Enjoy your stay, share your knowledge and collaborate to create a better future.

Hon. Giorgio Giudici
Mayor of Lugano
# Scientific Programme

**FRIDAY, 5 OCTOBER 2012**

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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>08:15</td>
<td>Opening Ceremony</td>
<td>Giorgio Giudici, Mayor of the City of Lugano Albino Zgraggen, General Secretary, USI</td>
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<tr>
<td>08:30</td>
<td><strong>EVOLUTION OF FEMTOSECOND LASER ASSISTED ANTERIOR SEGMENT SURGERY</strong></td>
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<td></td>
<td>Moderators: Rudy Nuijts, Netherlands; Beatrice Cochener, France; José L. Güell, Spain Roberto Bellucci, Italy</td>
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<td></td>
<td>Introduction: Overview of the session</td>
<td>José L. Güell, Spain</td>
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<td>Experience with the LenSx® Laser Femtosecond in cataract surgery</td>
<td>Rudy Nuijts, Netherlands</td>
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<td>RelEx: the latest LASIK approach</td>
<td>José L. Güell, Spain</td>
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<td>Femtosecond Laser to refine outcomes of refractive IOLs</td>
<td>Beatrice Cochener, France</td>
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<td>New Femtosecond Laser technology for Corneal Surgery</td>
<td>Friedrich Kruse, Germany</td>
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<td>The VICTUS™ B&amp;L Femtosecond Laser platform: clinical experience</td>
<td>Roberto Bellucci, Italy</td>
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<td>10:00</td>
<td>COFFEE BREAK</td>
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<td>10:30</td>
<td><strong>ROUND TABLE: THE ACTUAL STATUS OF FEMTOSECOND LASER ASSISTED CATARACT SURGERY</strong></td>
<td>Rudy Nuijts, Netherlands; Beatrice Cochener, France; François Malecaze, France; Friedrich Kruse, Germany; Aldo Caporossi, Italy; José L. Güell, Spain; Zoltán Z. Nagy, Hungary; Roberto Pinelli, Italy; (Q&amp;A)</td>
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<td>11:00</td>
<td><strong>LIVE SURGERIES: LENSX® LASER FEMTOSECOND CATARACT SURGERY</strong></td>
<td>Lucio Buratto, Italy; Zoltán Nagy, Hungary; José L. Güell, Spain</td>
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<td>(Centro Ambrosiano Oftalmico Milano, CAMO)</td>
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<td>12:30</td>
<td><strong>THE NEW TORIC AND MULTIFOCAL IOLS</strong></td>
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<td>Moderators: François Malecaze, France; Sadeer B. Hannuish, USA; Roberto Pinelli, Italy</td>
<td>Rudy Nuijts, Netherlands; Roberto Pinelli, Italy; Sadeer B. Hannuish, USA; Friedrich Kruse, Germany</td>
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<td>Management of cataract and co-existing astigmatism with the AcrySof® IQ ReSTOR® Multifocal Toric IOL</td>
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<td>Multifocal Toric IOLs: personal experience and results</td>
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<td>The Toric IOL: Managing the unhappy patient</td>
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<td>Clear lens exchange and the Zeiss Acri.LISA® multifocal IOLs</td>
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<td>Custom Surgery for cataract surgery in patients with astigmatism</td>
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<td>13:45</td>
<td><strong>ROUND TABLE: THE MANAGEMENT OF ASTIGMATISM WHEN CATARACT SURGERY IS SCHEDULED: CORNEAL VS INTRAOCULAR APPROACH</strong></td>
<td>Rudy Nuijts, Netherlands; François Malecaze, France; Sadeer B. Hannush, USA Roberto Pinelli, Italy; José L. Güell, Spain; Aldo Caporossi, Italy; Bekir Aslan, Turkey; (Q&amp;A)</td>
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<td>14:15</td>
<td>LUNCH</td>
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<td>15:15</td>
<td><strong>KERATOCONUS MANAGEMENT I</strong></td>
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<td>Moderators: Farhad Hafezi, Switzerland; Friedrich Kruse, Germany; José L. Güell, Spain</td>
<td>Jose L. Güell, Spain; Beatrice Cochener, France; Farhad Hafezi, Switzerland</td>
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<td>Standarised strategic approach for keratoconus</td>
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<td>Intracorneal segments: which one and for which cornea</td>
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<td>Corneoplastic procedures for the treatment of irregular cornea (non corneal cross-linking)</td>
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# Scientific Programme

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers</th>
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<tr>
<td>16:30 – 17:00</td>
<td>ROUND TABLE: WHAT WE ARE EXPECTING TO KNOW IN THE NEAR FUTURE ABOUT THE KERATOCONIC EYE</td>
<td>François Malecaze, France; Beatrice Cochener, France; Farhad Hafezi, Switzerland; (Q&amp;A)</td>
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<td><strong>SUNDAY, 5 OCTOBER 2012</strong></td>
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<tr>
<td>08:15</td>
<td>KERATOCONUS MANAGEMENT II: NEW IOLs</td>
<td>Rudy Nuijts, Netherlands; Beatrice Cochener, France; Roberto Pinelli, Italy</td>
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<td>Endothelial damage: the fear in phakic IOL implantation. Anterior chamber morphometrics after implantation of iris-fixed or angle supported phakic IOLs</td>
<td>Rudy Nuijts, Netherlands; Beatrice Cochener, France</td>
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<td>5 years follow up with the Acrysof® CACHET® Phakic IOL. Toric ICL in KC cases</td>
<td>Jose L. Guehl, Spain</td>
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<td>09:30</td>
<td>ROUND TABLE: WHEN TORIC IOLs (PHAKIC AND PSEUDOPHAKIC) SHOULD BE CONSIDERED IN KERATOCONIC PATIENTS</td>
<td>Beatrice Cochener, France; Rudy Nuijts, Netherlands; Roberto Pinelli, Italy; François Malecaze, France; (Q&amp;A)</td>
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<td>10:00</td>
<td>COFFEE BREAK</td>
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<td>10:30</td>
<td>LIVE SURGERIES: MANAGEMENT OF KERATOCONUS (Ospedale Regionale di Lugano)</td>
<td>Shigeto Shimmura, Japan; François Malecaze, France; Bekir Aslan, Turkey; Roberto Pinelli, Italy; Jose L. Guehl, Spain; Roberto Bellucci, Italy</td>
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<td>12:00</td>
<td>KERATOCONUS MANAGEMENT III: CCL AND KERATOPLASTY</td>
<td>Aldo Caporossi, Italy; Roberto Pinelli, Italy; Francois Malecaze, France; Farhad Hafezi, Switzerland; Shigeto Shimmura, Japan; John Marshall, UK; Sadeer B. Hannush, USA; Harminder Dua, UK; Jose L. Guehl, Spain; Shigeto Shimmura, Japan</td>
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<td>Corneal collagen cross-linking: results and future directions</td>
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<td>Transepithelial cross-linking: concept, lab and one year result</td>
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<td>Cross-linking via iontophoresis: a new approach</td>
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<td>Treatment of progressive keratoconus in children and adolescents by corneal cross-linking</td>
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<td>Preliminary results of Keraflex therapy for keratoconus</td>
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<td>High speed CCL (Avedro): clinical update</td>
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<td>DALK: surgical pearls for the novice surgeon and how to avoid complications at every step</td>
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<td>DALK: pitfalls and how to avoid them. Phakic implants, with emphasis on keratoconus</td>
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<td>DALK: visco bubble technique</td>
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<td>Long term results of DALK for keratoconus</td>
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<td>13:45</td>
<td>ROUND TABLE: ARE THERE REALLY NEW TECHNICAL IMPROVEMENT, FOR CCL AND KERATOPLASTY?</td>
<td>Aldo Caporossi, Italy; Friedrich Kruse, Germany; Shigeto Shimmura, Japan; Farhad Hafezi, Switzerland; Sadeer B. Hannush, USA; Jose L. Guehl, Spain; John Marshall, UK; Harminder Dua, UK; (Q&amp;A)</td>
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<tr>
<td>14:00</td>
<td>Conclusions and discussion. Future meetings.</td>
<td>Jose L. Guehl, Spain</td>
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Sessions

Session 1
Evolution of Femtosecond Laser assisted anterior segment surgery

Moderators: Rudy Nuijts, Netherlands
Beatrice Cochener, France; José L. Güell, Spain
Roberto Bellucci, Italy

Femtosecond lasers were introduced in place of mechanical microkeratomes and in the past few years have rapidly become accepted as a safe and effective way to create flaps for LASIK, various corneal transplant configurations, and intracorneal channels for treating ectatic corneal disorders.

Nowadays, we can use the femtosecond laser procedure to perform the key steps in the cataract surgery procedure. Cataract surgeons are adopting femtosecond technology to perform laser capsulotomy, lens fragmentation, clear cornea incisions and limbal relaxing incisions. The combination of precise refractive femtosecond laser technology and lenticule extraction marks the start of a new era in refractive surgery.

Refractive lenticule extraction (ReLEx) is a new application that allows surgeons to perform complete laser vision correction procedures using only one laser platform.

This procedure simplifies corneal refractive laser surgery because the corrective lenticule and the overlying corneal flap are created in one step using one laser. The refraction is corrected by creating an intrastromal lenticule with the femtosecond laser in the intact cornea, and in a shape corresponding to the desired refractive correction.

This section addresses some of the most important of these entities in an attempt to stimulate the discussion with panelists and audience.
Sessions

Session 2
The new toric and multifocal IOLs

Moderators: François Malecaze, France
Sadeer Hannush, USA; Roberto Pinelli, Italy

Corneal relaxing incisions combined with microincisions cataract surgery allow correction of preexisting congenital astigmatism. Limbal relaxing incisions and opposite clear corneal incisions were the main surgical techniques in use during last decade. However, corneal wound healing variations, particularly at epithelial level, are associated with poor refractive results predictability. New generations of toric intraocular lenses (IOLs) have good stability in the capsular bag with less risks of secondary rotation. Well positioned in the right axis, toric intraocular lenses have potentially better accuracy and predictability than relaxing corneal surgery to correct preexisting congenital astigmatism. In this session, we will highlight some of the new generations of toric and multifocal toric IOLs to correct the astigmatism.

Session 3
Keratoconus management I

Moderators: Frahad Hafezi, Switzerland
Friedrich Kruse, Germany; José L. Güell, Spain

Keratoconus is an axial non-inflammatory corneal ectasia. The corneal thinning induces irregular astigmatism, myopia, and protrusion, leading to mild to marked impairment in the quality of vision.

During the initial stages of keratoconus, glasses and contact lenses are the most common treatment methods. Intracorneal rings for keratoconus are usually advised for a total or partial correction of irregular astigmatism. In general, intrastromal ring segments are used to reduce or remove myopia and astigmatism in some patients with keratoconus, specifically in those who do not achieve an adequate vision with their contact lenses or glasses. In this session, the panel will consider the different options to keratoconus management and the main indications of the intracorneal segments, and Corneoplastic procedures for the treatment of irregular cornea.

We hope the presentations within this Session help to clarify the steps to follow in order to treat the keratoconus.
Sessions

Session 4
Keratoconus management II: New IOLs

Moderators: Rudy Nuijts, Netherlands
Beatrice Cochener, France; Roberto Pinelli, Italy

In this Session, the panel will consider phakic IOL implantation for keratoconus. This Session will highlight some of the most important indications to correct the refractive error in keratoconus implanting anterior chamber toric IOLs or posterior chamber toric ICLs in eyes with stable or stabilized keratoconus.

In progressive mild to moderate keratoconus, combined collagen crosslinking and toric phakic IOLs implantation to correct myopic astigmatism will be discussed by the panel.

Cataract surgery in patients with keratoconus is challenging due to the inaccuracies involved in estimating the IOL power in these patients who have irregular astigmatism and high myopia. Cataract extraction with toric IOL implantation can be used to correct the astigmatism and to improve visual functioning in patients with mild to moderate amounts of stable keratoconus and cataract. No progression and no IOL rotation were observed in these patients.

The presentations within this Session will stimulate interesting and lively discussions about the intraocular procedure to consider in keratoconus.

Session 5
Keratoconus management III: CXL and Keratoplasty

Moderators: Aldo Caporossi, Italy
Shigueto Shimmura, Japan

In this session, the panel will discuss the treatment of progressive keratoconus. Stabilization of corneas with keratoconus can be achieved with the application of Crosslinking (CXL). The method is based on the absorption of UVA radiation by the cornea after the photosensitizer riboflavin is infused in the stroma. Although it stabilizes the cornea, the topography and visual performance of patients treated with CXL show minimal improvement. Transepithelial CXL was designed to avoid the early postoperative pain and temporary worsening of vision associated with the classic CXL technique. Its noninvasive nature makes it a potentially useful treatment in cases in which epithelial debridement is ideally avoided, such as pediatric cases, uncooperative patients, and in eyes with thin corneas. These new approaches (transepithelial electric devices, very short time procedure...) will also be discussed in this session.

The panel will present the preliminary results of Keraflex therapy for keratoconus and will give the surgical pearls for inexpert surgeons to practice a deep anterior lamellar keratoplasty (DALK) using the big or visco bubble technique to treat moderate and severe keratoconus.
Live surgeries in HD/3D technology

**LenSx® Laser Femtosecond Cataract Surgery**
Centro Ambrosiano Oftalmico Milano, CAMO

Surgeons: Lucio Buratto, Italy  
Zoltán Nagy, Hungary; José L. Güell, Spain

The recent introduction of femtosecond lasers to cataract surgery has generated much interest among ophthalmologists around the world. Laser cataract surgery integrates high-resolution anterior segment imaging systems with a femtosecond laser allowing key steps of the procedure, including the primary and side-port corneal incisions, the anterior capsulotomy and fragmentation of the lens nucleus to be performed with computer-guided laser precision.

There is emerging evidence of reduced phacoemulsification time, better wound architecture and a more stable refractive result with femtosecond cataract surgery, as well as reports documenting an initial learning curve.

In this session a live LenSx® femtosecond cataract surgery and a posterior discussion about our clinical experience will be carried out.

**Management of Keratoconus**
Ospedale Regionale di Lugano

Surgeons: Shigeto Shimmura, Japan  
François Malecaze, France; Bekir Aslan, Turkey  
Roberto Pinelli, Italy; José L. Güell, Spain  
Roberto Bellucci, Italy

Keratoconus is a progressive corneal disorder that can lead to severe vision deterioration through the development of irregular astigmatism and corneal scarring.

So far, techniques that have been employed to improve vision in patients with keratoconus include the use of spectacles, rigid gas permeable contact lenses, intracorneal ring segment implantation and, in the most severe cases, lamellar or penetrating keratoplasty. Crosslinking has been shown to be effective in slowing, halting or reversing progressive keratoconus. Moreover, to correct the refractive error in keratoconus, an anterior chamber toric IOLs or posterior chamber toric ICLs in eyes with stable keratoconus can be implanted. In this live surgery, we will see these different types of surgeries to manage keratoconus. Different types of IOLs implantations in cataract surgery will be displayed.
Faculty

Bekir Sitki Aslan
TOBB Economy Technology University Hospital, Ankara, Turkey
Dr. Aslan is the Head of Eye Department at TOBB Economy Technology University Hospital, in Ankara. He has an extensive experience in Advanced Cataract and Glaucoma Surgery. His main interest is advanced technology IOLs and phacoemulsi- fication. He completed a fellowship in Vitreoretinal Surgery at Cambridge University, Addenbrookes' Hospital, UK. He has been teaching microsurgery for more than 25 years. He has participated in live surgeries and gave lectures locally and internationally. He has published papers and four chapters in books related to cataract and cataract surgery. He recently published a paper describing a new Phaco Technic “Crater and Split” in the September 2012 issue of JCrS. He is the President of the Turkish Cataract and Refrac- tive Surgery Society. He contributed to the establishment and progress of modern eye-banking in Turkey. He is a member of ESCRS Publication Committee and Editor of Eurotimes Turkey, and a faculty member of ESASO, Lugano, Switzerland.

Roberto Bellucci
Hospital of Verona, Italy
Dr. Bellucci received his Medical degree and Ophthalmology Residency at the University of Padua, Italy. He is the Director of the Ophthalmic Unit at the Hospital of Verona, Italy, and Professor of Anterior Segment Surgery at the Universities of Verona and Lugano (Switzerland). His professional activity comprises more than 1,000 surgeries yearly, most of which in the anterior segment of the eye. His research activity is mainly devoted to phacoemulsification and intraocular lenses. He published over 200 papers, many in international journals, and co-authored four books. He gave lectures in 15 countries, and performed live surgery in 10. Dr. Bellucci is a member of many international societies, and the Secretary of the European Society of Cataract and Refractive Surgeons (ESCRS).

Lucio Buratto
Centro Ambrosiano Oftalmico - Camo S.p.A., Milan, Italy
Dr. Buratto is the Director of the Centro Ambrosiano Oftalmico – Camo S.p.A. (ophthalmic microsurgery centre), and practices in Milan. He is a pioneer in several techniques and surgeries: ocular techniques of IOL (Intra Ocular Lens) implantation, phacoemulsification procedure for the cataract, laser techniques for myopia, astigmatism and hyperopia (to date, has performed more than 40,000 eye surgery operations), excimer laser intrastromal keratomileusis, PRK techniques to treat low myopia, Intralase laser for refractive surgery, Femtosecond laser for cataract surgery, and Down-Up Lasik. He has performed live surgery in many international and Italian congresses, and surgery during satellite broadcasts to a number of countries in 4 different continents. Among his many activities, he has designed and produced 143 instruments for ocular surgery, and has organized and presided over many congresses, organized practical courses for the teaching of eye surgery, and has been a spokesman and teacher in numerous courses and congresses. Dr. Buratto has published over 125 scientific articles and 59 monographs. He is Honorary President of AISO (Italian Academy of Ophthalmological Sciences), AICCEr (Italian Association of Cataract and Refractive Surgery), AAO (American Academy of Ophthalmology), ESCRs (European Society of Refractive Surgery) and 8 other national and international ophthalmological associations. Over the years, Dr. Buratto has received numerous awards for new surgical techniques, and for research and innovations.
Faculty

Aldo Caporossi
University Hospital Siena, Italy
Dr. Caporossi is Professor and Director of the Ophthalmology Unit, University Hospital, Siena, Italy. He has carried out about 30,000 operations as main surgeon in the operating theatre of the Department of Ophthalmological and Neurosurgical Sciences of Siena University. He carried out about 150 operations in live surgery during national and international conferences. Member of the most important national and international scientific associations of Ophthalmology, he has received about 25 scientific awards and surgery prizes. He directed and organized over 80 courses in anterior segment surgery (about 77 in Siena alone), was speaker in over 600 national and international congresses, teacher in national and international instructional courses and meetings with 10 keynote lectures. He is author of over 400 publications and scientific articles in national and international journals with impact factor, teaching texts and videos of ophthalmic surgical techniques. His H-index values in SCOPUS, WEB of SCIENCES and PUBLISH or PERISH are respectively of 18, 17 and 20.

Béatrice Cochener
Ophthalmology Department, University Hospital Brest, France
Béatrice Cochener-Lamard is the Head of the Ophthalmology Department in Brest University Hospital (France) since 2000 and professor since 2002. She has been president of the French Society of Ophthalmology (SFO) for three years (2009-2011), deputy president of the National Association of Ophthalmology (SNOF), deputy president of the French Society of Cataract and Refractive Surgery (SAFIR) and is a member of the ICO Board (The International Council of Ophthalmology). Since 2011, she has been head of the French Academy of Ophthalmology, which is the national professional board of ophthalmology. She is involved in the international arena as ESCRS board member, social secretary of EuCornea and member of ICO educational committee. Her main fields of interest are anterior segment, refractive surgery and corneal surgery. In terms of research activities, she is a member of the Medical Imaging Laboratory (Brest Inserm LATim). Invited to many conferences across the world, she has contributed to several publications and was in charge of the SFO national report dedicated to Presbyopia in 2012.

Harminder Singh Dua
University of Nottingham, UK
Harminder Singh Dua, MBBS, DO, DO (Lond), MS, MNAMS, FRCS, FRCOphth., FEO, MD, PhD., is the Chair, Professor and Head of Ophthalmology, University of Nottingham. He is currently President of the Royal College of Ophthalmologists, UK, Editor in Chief of the British Journal of Ophthalmology and President of EuCornea, the European Society of Cornea and Ocular surface disease specialists. He is also President of the European Association for Vision and Eye Research (EVER) Foundation (EVERf) and Past president of EVER. He was recently elected to the distinguished chair of Academia Ophthalmologica Internationalis. He was listed among Britain’s Top Doctors by The Times Magazine in 2010.
José L. Güell

Instituto de Microcirugía Ocular (IMO). Universidad Autonoma, Barcelona, Spain

Dr. Güell is Associate Professor of Ophthalmology at the Autonoma University of Barcelona, Coordinator of the Cornea and Refractive Surgery Unit at “Instituto de Microcirugía Ocular” and Scientific Coordinator and Professor of the Cornea and Refractive Surgery Module, ESASO, European School for Advanced Studies in Ophthalmology. He is the Past President of the European of Cataract and Refractive Surgeons Society (ESCRS), and the President of the European Society of Cornea and Ocular Surface disease specialists (EuCornea). He is the President of the Visiometrics SL, and Secretary of the Private Foundation for Corneal Tissue Obtention. His areas of interest include full and partial thickness corneal transplantation (Deep Anterior lamellar keratoplasty and endothelial keratoplasty), complex cataract and anterior segment reconstructive procedures, permanent keratoprosthesis surgery (artificial cornea), and refractive surgery, especially Excimer and femtosecond laser, Iris Claw style phakic IOL (Artisan-Artiflex) and Intracorneal Ring Segments, giving lectures in Spain and abroad on these topics. He is editorial board member of several Scientific Journals, has participated in many conferences and talks in National and International meetings, and he has published, approximately, 170 articles/chapters in National and International Journals and in peer-reviewed literature. In addition, he has received several achievement awards.

Farhad Hafezi

School of Medicine University of Southern California (USC) Los Angeles (Doheny Eye Institute)

Farhad Hafezi, M.D., PhD, is Professor and Chair of the Dept. of Ophthalmology of the University of Geneva, Switzerland. His research work has focused on molecular mechanisms of retinal degeneration using light-induced photoreceptor damage in transgenic mice, and he identified the first gene that would completely inhibit light-induced retinal damage. Clinically, he has focused on corneal and refractive laser surgery, becoming a pioneer in the method of corneal collagen cross-linking (CXL), and establishing the IROC institute in Switzerland where the CXL technology was further developed and the UV-X device was constructed and CE certified. He was appointed Chair and Professor of Ophthalmology of the University Eye Clinic of Geneva in Switzerland, and Clinical Professor of Ophthalmology by the Faculty of the Keck School of Medicine, University of Southern California (USC) Los Angeles (Doheny Eye Institute). Prof. Hafezi has published 52 peer-reviewed articles and 48 book chapters, reviews and case reports. His work has been cited more than 2,400 times. His total impact factor is 280.3 (ISI 2010) and his h factor is 28. He has received many national and international awards. He is Associate Editor of the Journal of Refractive Surgery and Editorial Board Member of the Iranian Journal of Ophthalmology and The International Journal of Keratoconus and Ectatic Corneal Disease. Dr. Hafezi has also a profound background in cell biology of both the cornea and the retina.
Faculty

Sadeer B. Hannush

Wills Eye Institute. Jefferson Medical College of Thomas Jefferson University, Philadelphia, Pennsylvania, USA

Sadeer Hannush is Attending Surgeon in the Cornea Service at Wills Eye Hospital and Assistant Professor of Ophthalmology at Jefferson Medical College of Thomas Jefferson University in Philadelphia, Pennsylvania. He is the Medical Director of the Lions Eye Bank of Delaware Valley and a Medical Advisory Board Member of the Eye Bank Association of America. Dr. Hannush is a longstanding member of the Ophthalmic Drug Panel and a consultant to the Ophthalmic Devices Panel of the Food and Drug Administration. Dr. Hannush has received the American Academy of Ophthalmology’s Honor Award and the Senior Achievement Award for distinguished service in education. He is a Fellow of the American Academy of Ophthalmology and a Member of The Cornea Society (where he has served as Scientific Program Chair for the past four years), the International Society of Refractive Surgeons, the American Society of Cataract and Refractive Surgery and the European Society of Cataract and Refractive Surgeons. Dr. Hannush’s areas of interest are full and partial thickness corneal transplantation (endothelial and deep anterior lamellar keratoplasty), complex cataract and anterior segment reconstructive procedures including permanent keratoprosthesis surgery (artificial cornea), and laser vision correction. He has multiple publications in peer-reviewed literature and chapters in ophthalmology texts.

Friedrich E. Kruse

University of Erlangen Medical School, Erlangen, Germany

He is Professor and Chairman of the Department of Ophthalmology at the University of Erlangen Medical School, Erlangen/Germany and Director of the Cornea Service and the Refractive Surgery Department. He is an internationally and nationally recognized expert in corneal disease with a special interest in corneal transplantation and ocular surface disease with respect to ocular stem cells. Professor Kruse has published numerous book chapters and well over 200 articles in peer-reviewed journals. He serves on the Editorial Board of several peer-reviewed ophthalmology journals, such as Investigative Ophthalmology & Visual Science and The Ocular Surface. He received several awards, such as the Bowman Lecture from the Bowman Club in Great Britain and the Norman Galloway Lecture from the University of Nottingham. He has led several research initiatives focusing on the biology of limbal stem cells as well as the further development of corneal transplantation. He serves as program committee member for major international congresses such as ARVO, WOC and SOE.

François Malecaze

Purpan Hospital Toulouse, France

Dr. Malecaze is a Professor and Chair of Ophthalmology at Purpan Hospital, Toulouse (France), head of the Research group “INSERM U 563” and Co-director of the French National Reference Center for Keratoconus. His areas of interest and research expertise include the cornea, corneal diseases (Keratoconus, among others), corneal and refractive surgery, molecular biology and genetics of cornea and myopia. He has published 26 H index (ISI “Web of Knowledge”), over 145 international publications and 20 books/chapters. He has received 5 international prizes and awards.
John Marshall
Institute of Ophthalmology, Moorfield’s Eye Hospital, UCL, UK

Professor John Marshall is Professor of Ophthalmology at the Institute of Ophthalmology in association with Moorfield’s Eye Hospital, UCL. He was the Frost Professor of Ophthalmology and Chairman of the Academic Department of Ophthalmology, at St Thomas’ Hospital, and Sembal Professor of Experimental Ophthalmology at the Institute of Ophthalmology. He has been visiting professor at numerous universities on every continent. His research has focused on ocular problems and inter-relationships between light and ageing, the mechanisms underlying age-related, diabetic and inherited retinal disease, and the development of lasers for use in ophthalmic diagnosis and surgery. He was a director of Diomed and chaired the medical advisory boards of many international companies, national and international committees. He is a Fellow, Honorary Fellow and Director of several colleges, associations, academies, societies and institutes. He is an Honorary Distinguished Professor at Cardiff University, Emeritus Professor of Ophthalmology, Kings College London, Frost Visiting Professor, Optometry & Visual Science, City University and Honorary Professor, School of Health Science, Caledonian University. In 2011 he became the Master of the Worshipful Company of Spectacle Makers. He has received many medals and awards and authored over four hundred research papers and numerous book chapters and books. He invented and patented the revolutionary Excimer laser for the correction of refractive disorders, and created the world’s first Diode laser for treating eye problems of diabetes, glaucoma and ageing. He is editor and co-editor of numerous international journals.

Zoltán Z. Nagy

Department Ophthalmology. Albert Szent-Györgyi Medical University Szeged, Hungary

Dr. Nagy has specialised in Ophthalmology at the Department of Ophthalmology, Albert Szent-Györgyi Medical University, Szeged, Hungary. He has held various posts in the Department of Ophthalmology at the Albert Szent-Györgyi Medical University, Szeged, the 1st Department of Ophthalmology, Semmelweis Medical School, Budapest, Hungary, and in the Department of Ophthalmology at the Semmelweis University, Budapest. He is a Clinical Professor and Deputy Director of the Department of Ophthalmology and the Chair of the Department of Clinical Ophthalmology at the Faculty of Health Sciences at the Semmelweis University, Clinical Professor of Ophthalmology and Vice-Dean of the General Faculty of Medicine. He performed the first cataract live surgery with the femtolaser in Europe during the Annual ESCRS Meeting in 2011. He has performed over 26,000 refractive surgical and 5,000 intraocular procedures and all kinds of refractive surgery. He is experienced with the treatment of keratoconus; early diagnosis, riboflav treatment and keratoplasty. He did the first femtosecond cataract operation in a human eye in the world in 2008 and performed the first Live Surgery in Europe during the 2011 ESCRS Congress in Budapest, transmitted via satellite to Vienna. He is presently working with premium intraocular lenses and femtolaser cataract surgery (femtorhexis, femtofragmentation of the lens). His work has focused on refractive surgery, cataract, and anterior segment diseases. He has published 122 articles, 18 bookchapters, 27 posters, 507 papers, and university lectures for graduate and postgraduate training in ophthalmology. His impact factor is of 43.7, and has 293 citations. He has received numerous awards, prizes and nominations. He is also a member of several scientific societies and academies.
Faculty

Rudy Nuijts
Department Ophthalmology, Maastricht University Medical Center (MUMC), Netherlands
He is Associate Professor of Ophthalmology and Director of the Cornea Clinic and the Center for Refractive Surgery at the Oogziekenhuis Maastricht of the Maastricht University Medical Center (MUMC), the Netherlands. He was a research fellow at Emory Eye Center, Atlanta (Head Prof. H.F. Edelhauser) in 1989 and 1993 where he pioneered the etiology of toxic endothelial cell destruction after cataract surgery (now called TASS, Toxic Anterior Segment Syndrome). His research interests are in the field of corneal surgery and innovations in cataract and refractive surgery. He is Chairman of the Netherlands IntraOcular Implant Society (NIOIC), treasurer of the Dutch Corneal Society, board member of the Netherlands Transplantation Society (NTS) and treasurer of the ESCR (European Society of Cataract and Refractive Surgeons).

Roberto Pinelli
Instituto Laser Microchirurgia Oculare, Brescia, Italy
Dr. Roberto Pinelli is the Scientific Director of ILMO – Istituto Laser Microchirurgia Oculare, in Brescia (Italy). He trained in refractive surgery at the Vision Surgery Laser Center (now Gordon Binder Weiss Vision Institute) under Professor Michael Gordon in San Diego (California, US). Dr. Pinelli was one of the first surgeons in Italy to perform bilateral LASIK. He led the Italian investigation into the Conductive Keratoplasty (CK) radiofrequency technique, performed for the first time in Italy in 2002 by his research group, and authorised by the US Food and Drug Administration for the treatment of hypermetropia and presbyopia. He has perfected the P-Curve surgical technique for the correction of presbyopia and is considered a pioneer in the treatment of keratoconus, developing the transepithelial version of the corneal cross-linking technique and patenting a specific osmotic riboflavin formulation to be used in conjunction with UV-A rays without having to remove the epithelium. The R&D Department of ILMO, led by Dr. Pinelli, also joined the international research project on the innovative Keraflex treatment, a termokeratoplasty procedure aimed at contrasting keratoconus effects. Dr. Pinelli was invited to serve in the Executive Committee of the American Academy of Ophthalmology (AAO) and in the ESCR Publication Committee (EUROTIMES). He is a member of the Cataract and Refractive Surgery Today International Board, as well as of the Cataract and Refractive Surgery Today Europe Editorial Advisory Board. He is an editorial board member of Journal of Refractive Surgery and Ophthalmology Times Europe International. He is also a member of the International Intra-Ocular Implant Club (IIIC), of the Advisory Boards of Biosyntrx Scientific and of Avedro Medical.

Shigeto Shimmura
Keio University School of Medicine, Tokyo, Japan
Dr. Shimmura has worked as Chief of Ophthalmology at the Ashikaga Red Cross Hospital, as Assistant Professor at the Tokyo Dental College, as Assistant Professor at Keio University School of Medicine, and is currently Associate Professor at Keio University School of Medicine. He is a certified member of the Japanese Society of Ophthalmology (JOS), of the Japanese Association of Ophthalmologists, of the Association for Research in Vision and Ophthalmology (ARVO), of the Japanese Corneal Society, of the Japanese Society of Ophthalmic Surgeons and of the American Academy of Ophthalmology. He has also acted as Programming Chair for ARVO and JOS.
General information

Venue
Università della Svizzera italiana (USI)
Via Lambertenghi 10A
6904 Lugano, Switzerland
Room: Aula Magna
www.usi.ch

Official language
The language of the symposium is English.

European CME Credits
The ESASO live surgery symposium: New trends in anterior segment surgery in Lugano, Switzerland has been accredited with 9 European CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME). Please check www.esaso.org for details.

In order to claim these credits all delegates will need to complete an online evaluation survey when they collect their certificate of attendance. Each delegate should contact his/her national CME body directly in order to claim their credits for the symposium.

We hope you enjoyed this year’s symposium, which we feel has offered further insight into the new trends in anterior segment surgery.
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