

# APACRS CORE INSTRUCTIONAL COURSES

**DAY 1, THURSDAY, 11 JULY 2013 • 08:30 – 12:15HRS**

## CIC01: PHACO FUNDAMENTALS

08:30 – 10:00hrs • Room 336, Level 3, Suntec Singapore

COURSE FACULTY: **CHEE Soon Phaik • Johan HUTAURUK • Hadi PRAKOSO • TI Seng Ei**

This 1.5-hour video-based course on phacoemulsification surgery aims to provide a comprehensive introduction to the skills required for successful phaco surgery and familiarization with basic phaco machine technology, a necessary prerequisite for effective wetlab training.

Highlights include video-based presentations on all essential stages of phaco surgery, with presentations focusing on providing the beginner phaco surgeons with tips on how to avoid/minimize common complications such as wound burn and runaway capsulorhexis, with an emphasis on the basic steps to follow once vitreous loss has occurred, including conversion to ECCE for safe nuclear delivery.

**This is a prerequisite course for those participating in the Basic Phaco hands-on Wetlab at 14:30hrs.**

## CIC02: RETINAL UPDATES FOR ANTERIOR SEGMENT SURGEONS

08:30 – 10:00hrs • Room 334, Level 3, Suntec Singapore

COURSE FACULTY: **ANG Chong Lye • LEE Shu Yen • Manish NAGPAL • ONG Sze Guan • Doric WONG • Edmund WONG • Ian YEO**

This vitreoretinal course aims to update and guide the anterior segment surgeon on the preoperative assessment and postoperative management of patients with concurrent retinal disease undergoing cataract surgery, including diabetic retinopathy, diabetic macular edema, macular degeneration and retinal vascular disorders. There will also be an update on recent advances in retinal imaging and treatment of retinal diseases. The attendees, at the end of the course, will understand how to prevent posterior segment complications after anterior segment surgery.

## CIC03: OCULAR TRAUMA

08:30 – 10:00hrs • Room 335, Level 3, Suntec Singapore

COURSE FACULTY: **Gangadhara SUNDAR • Paul CHEW • Jae-Yong KIM • S. NATARAJAN • Hunter YUEN**

Management of ophthalmic trauma continues to evolve with the advent of newer techniques and technology with better outcomes. This course aims to provide anterior segment surgeons with an evidence-based update on the various advances in the medical and surgical management of various ophthalmic subspecialties, including updates, current concepts, and controversies in Ocular Trauma Scoring and Classification, the management of corneal and lens injury, the evaluation and management of acute and chronic glaucoma in the face of trauma, vitreoretinal trauma, the management of traumatic optic neuropathy, and finally newer technologies and application of recent advances in ocular adnexa (eyelid, lacrimal, and orbital trauma). The session will end with specific case scenarios that address some of these controversies.

## CIC04: OPTIMIZING OUTCOMES IN TORIC IOLS

10:45 – 12:15hrs • Room 336, Level 3, Suntec Singapore

COURSE FACULTY: **Tetsuro OSHIKA • GUO Haike • Ronald YEOH**

The toric intraocular lens (IOL) is used to compensate for preexisting corneal astigmatism. In order to optimize the outcomes of toric IOLs, several precautions are needed, including proper selection of patients, precise marking before surgery, intraoperative marking, alignment of the toric axis, and so on. This course will cover the theoretical and practical points in toric IOL implantation.

## CIC05: TIPS AND TRICKS FOR SUCCESSFUL PTERYGIUM SURGERY

10:45 – 12:15hrs • Room 334, Level 3, Suntec Singapore

COURSE FACULTY: **Cordelia CHAN • Donald TAN • Gerard SUTTON**

This comprehensive video-based course will focus on the surgical management of primary and recurrent pterygia, with emphasis on conjunctival autografting techniques, and the use of fibrin glue in pterygium surgery. The role of other adjunctive measures including amniotic membrane transplantation and the use of mitomycin-C will be discussed. Prevention and management of pterygium surgery complications will also be highlighted. Attendees will gather important pearls in pterygium surgery, which translate into reduced recurrence rates and good cosmetic outcomes.

## CIC06: WHAT THE REFRACTIVE SURGEON NEEDS TO KNOW ABOUT GLAUCOMA

10:45 – 12:15hrs • Room 335, Level 3, Suntec Singapore

COURSE FACULTY: **Shamira PERERA • Prin ROJANAPONGPUN • Sri GANESH • ZHOU QI**

The refractive surgeon often encounters patients with concomitant glaucoma and this course will provide some guidance on how to approach these patients. Subjects covered will be: Identifying glaucoma in the highly myopic patient, measurement of IOP post-LASIK, cataract surgery in subjects with PACG, phakic IOLs and the association with glaucoma, and others. At the conclusion of this course, attendees will have a better understanding of how to manage patients with glaucoma who have had or are considering refractive surgery.



# APACRS MASTERCLASSES

**DAY 1, THURSDAY, 11 JULY 2013 • 13:30 – 17:00HRS**

## MC01: FEMTOPHACO CATARACT

13:30 – 15:00hrs • Room 336, Level 3, Suntec Singapore

COURSE FACULTY: **CHEE Soon Phaik • Gerard SUTTON • Michael KNORZ • Ronald YEOH • Zoltan NAGY**

Femtophaco cataract surgery has arrived. This video-based course targets the experienced phaco surgeon who is converting or planning to convert to femtophaco surgery. Our experienced faculty will discuss the technology, techniques and new complications of this procedure, including a cost/benefit discussion of this expensive technology. Questions that all surgeons who are “sitting on the fence” want to ask will be asked.

## MC02: GLUED IOL

13:30 – 15:00hrs • Room 334, Level 3, Suntec Singapore

COURSE FACULTY: **Amar AGARWAL • Athiya AGARWAL • Keiki MEHTA • Roger STEINERT**

Glued intrascleral haptic fixation of a PC IOL (Glued IOL) helps one fixate an IOL in eyes without any capsular support. This video-based course will explain the basic technique including the use of foldable IOLs and the handshake technique. It will also cover the complications and results with this technique, including vitrectomy management of PC rupture, congenital and acquired conditions like microspherophakia and subluxated lenses, refixation of a dislocated IOL, and the management of multifocal and aniridia glued IOL.

## MC03: FROM FLE<sub>x</sub> to SMILE

13:30 – 15:00hrs • Room 335, Level 3, Suntec Singapore Covention Centre

COURSE FACULTY: **Donald TAN • Kimiya SHIMIZU • Jodhbir MEHTA**

Femtosecond lasers have revolutionized refractive surgery by improving outcomes and safety. They have also caused a paradigm shift with the all-in-one femtosecond laser refractive procedure: Refractive Lenticule Extraction (ReLE<sub>x</sub>). This MasterClass will outline the different surgical techniques involved in ReLE<sub>x</sub> and also the small incision variants SMILE (Small Incision Lenticule Extraction) and pseudo-SMILE. It will also cover outcomes of the procedure, both clinical and preclinical and comparative results to LASIK.

## MC04: FINER POINTS IN IOL FIXATION

15:30 – 17:00hrs • Room 336, Level 3, Suntec Singapore Covention Centre

COURSE FACULTY: **CHEE Soon Phaik • Ronald YEOH • Roger STEINERT**

This video-based course will show IOL fixation techniques when capsular support is lacking. Experts make these complex surgeries look simple when they are really not. In this interactive course, each step will be critically analyzed, questions asked and the logic behind each maneuver clarified so that correct surgical decisions are made. Attendees will learn a methodical way of planning for and performing IOL fixation surgery.

## MC05: ADVANCED BIOMETRY

15:30 – 17:00hrs • Room 334, Level 3, Suntec Singapore

COURSE FACULTY: **FAM Han Bor • John SHAMMAS • Wolfgang HAIGIS**

This MasterClass will examine and render comprehensible the complexities of IOL power calculation, discussing the 10 golden rules for biometry and IOL power calculations, calculating IOL power without optical biometry, navigating through the maze of IOL formulas, calculating IOL power in atypical eyes, target refractions for premium IOLs, and ensuring good refractive outcomes in cataracts with previous refractive surgery.

## MC06: FLAWLESS FEMTO LASIK FLAPS

15:30 – 17:00hrs • Room 335, Level 3, Suntec Singapore

COURSE FACULTY: **CHAN Wing Kwong • Cordelia CHAN • Choun-Ki JOO • WANG Zheng**

This MasterClass will cover the basics of femtosecond LASIK flap creation, highlighting the use of the IntraLase and VisuMax platforms.

Videos on unexpected scenarios during flap creation will be presented, including the management of suction loss, sticky flaps, flap tears, uncooperative patients and small palpebral apertures. Attendees will learn important pearls for successful femtosecond flap creation and the management of complications unique to different femtosecond platforms, resulting in excellent visual results.

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## BARRETT IOL FORMULAE

The ability to accurately predict a patient's refraction after cataract surgery has become increasingly important. Improved IOL prediction formulae play a critical role in achieving a spherical refractive outcome approaching emmetropia.

The **BARRETT Universal Formula** and **BARRETT True-K Formula** are available on the APACRS website and provide predictable outcomes even in patients who have had previous LASIK or with extreme levels of myopia.

The new **BARRETT TORIC CALCULATOR** is an advanced Toric Formula that considers the effective lens position, IOL power and takes into consideration the power of the posterior cornea in predicting the required cylinder power required to correct corneal astigmatism.



# BASIC PHACO HANDS-ON WETLAB

Personalized  
Tuition

Limited to 15  
participants and  
pre-registration  
is required

Thursday, 11 July 2013 • 14:30-16:30hrs

Venue: Singapore National Eye Centre (SNEC), Training Room, Level 4

COURSE FACULTY: **TI Seng Ei • Johan HUTAURUK • Akura JUNSUKE • Hadi PRAKOSO • Y.C. LEE**

For the first time at any APACRS meeting, we will be offering a hands-on wetlab under the supervision of experienced phaco teachers and Prof Junsuke Akura, the award-winning inventor of the KITARO wetlab system, where different grades of nuclear hardness are available for phacoemulsification and realistic capsulorhexis is possible. Participants will have an opportunity to practice phaco surgery in a comprehensive wetlab set-up, and to experience the use of various machines. Our faculty members including several guest instructors from Japan will be present to guide you, with industry/vendor support on standby to assist you.

**Prerequisite:** Participants are required to attend the Phaco Fundamentals course (CIC01) scheduled from 08:30 to 10:00hrs on Thursday, 11 July 2013 at Room 336, Level 3, SUNTEC Singapore.

Shuttle bus will leave for SNEC for the hands-on wetlab at **13:30hrs** sharp. Please assemble at the Hospitality Desk, concourse, Level 3 at **13:20hrs**.

**DON'T MISS OUR SOCIAL NITE  
ON FRIDAY, 12 JULY 2013, 18:00HRS**

Includes  
Admission  
to the  
Flower  
Dome

*Gardens by the Bay*  
a sustainable paradise in the heart of the city

With its pavilions, state-of-the-art conservatories, and multi-storey Supertrees—vertical gardens that work as environmental engines, the highest rising 16 storeys, topped with a rooftop bar that provides a bird's eye view of the entire park—the Gardens by the Bay make a spectacular statement in sustainable engineering and energy efficiency, perfect for an evening stroll or a picnic with family and friends.

*Shuttle buses will depart for the Gardens by the Bay starting from 18:00hrs. Please assemble at level 1, Suntec Singapore Lobby at 17:45hrs.*



# DSAEK HANDS-ON WETLAB



COURSE FACULTY: **Donald TAN • Jodhbir MEHTA • LIM Li**

This course includes a 1-hour video-based session and a 2-hour hands-on wetlab on automated donor preparation and DSAEK surgery in animal and human donor eyes, reviewing specific surgical strategies for each stage in DSAEK with an aim toward optimizing endothelial survival and reducing donor dislocation and primary graft failure. Emerging donor insertion devices and advanced surgical techniques for more challenging cases will be presented. The hands-on wetlab session **is limited to 8 participants to enable personalized tuition.**

**Prerequisite: Participants are required to attend a 1-hr didactic course.**

## DIDACTIC SESSION

Friday, 12 July 2013, 12:30 – 13:30hrs • Board Room, located in the Exhibition Hall, Level 4

TIME	PROGRAM	SPEAKER
12:30 – 12:35hrs	<b>Course Introduction</b>	
12:35 – 12:50hrs	<b>Endothelial Keratoplasty</b> a. Evolution of EK Surgery b. Standard EK Techniques and Modifications	LIM Li Singapore
12:50 – 13:10hrs	<b>Introduction to ALTK Unit</b> a. Description of ALTK Unit b. Methods/ Indications of ALTK	Jodhbir MEHTA Singapore
13:10 – 13:30hrs	<b>DSAEK Surgery – Modifications, Results and Complications</b>	Donald TAN Singapore

## HANDS-ON WETLAB

Friday, 12 July 2013, 16:00 – 18:00hrs • Singapore National Eye Centre, Training Room, Level 4

TIME	PROGRAM	INSTRUCTOR
16:00 – 18:00hrs	<b>Hands-on Wetlab Session</b>	Donald TAN Singapore Jodhbir MEHTA Singapore LIM Li Singapore

Shuttle bus will leave for SNEC for the hands-on wetlab session at **15:15hrs** sharp. Please assemble at the Hospitality Desk, Concourse, Level 3 at **15:00hrs**.