Painful Total Knee Replacement:
Diagnosis and Indications for Revision
09:45 – 10:45  General Session
This Symposium will focus on diagnosis and indications for revisions in a painful total knee replacement.
The importance of a systematic workup so that an accurate diagnosis can be made will be highlighted because the outcome of the revision is dependent on the identification of the pathology. New ideas will be discussed and ample opportunity will be given for discussion. Realistic outcomes will be discussed so that our patients can know what to expect after revision TKR.

Chair: Willem Van Der Merwe, MBChB, FCS, SA Ortho
SOUTH AFRICA
Julian Feller, FRACS AUSTRALIA
Masahiro Kurosaka, MD JAPAN
Philippe Neyret, MD FRANCE
Jan Victor, MD, PhD BELGIUM

Cartilage Repair: Clinical Use of Cell Therapies for Cartilage Injuries
09:45 – 10:45  Room 718A
This Symposium will offer instructions on the middle and longterm clinical outcomes of cell therapies related to cartilage injuries including an update on further development in cellular approaches, the use of matrices and scaffolds, as well as wider indications for cell therapies demanding concomitant surgical procedures for long-term successful outcomes.

Chair: Alberto Gobbi, MD ITALY
Karl Fredrik Almqvist, MD, PhD BELGIUM
Jason Dragoo, MD USA
Andreas Gomoll, MD USA

Biological vs. Metal Solutions for Early Osteoarthritis: A Case-Based Approach
10:15 – 11:15  Room 718B
This Symposium will offer a case-based approach to solutions for early osteoarthritis, including biological and metal solutions. Each presenter will address the choice of a biological solution, when and why they choose a metal solution, and discuss a bad result.

Chair: Maurilio Marcacci, MD ITALY
Karl Fredrik Almqvist, MD, PhD BELGIUM
Anunziato Amendola, MD USA
Norimasa Nakamura, MD, PhD JAPAN
Andrew Pearle, MD USA

Treatment Options for First Time Shoulder Dislocation
11:00 – 12:00  Room 701A
This Symposium will discuss treatment options for first time shoulder dislocations through case discussions. Cases will include professional and amateur athletes, and pediatric as well as adult patients.

Chair: Jose Huylebroek, MD BELGIUM
Eiji Itoi, MD, PhD JAPAN
Mario Larrain, MD ARGENTINA
Eric McCarty, MD USA
Pericles Papadopoulos, Prof. GREECE

Single and Double-Bundle ACL Reconstruction with Remnant Tissue
13:30 – 14:30  General Session
Upon completion of this Symposium, participants will be able to understand current knowledge on histology, physiology, and biomechanics of the ACL remnant tissue; functional evaluation of the knee with remnant tissue preserving ACL reconstruction; remnant preserving techniques of single- and double-bundle ACL reconstruction; and the pros and cons of the remnant preserving ACL reconstruction.

Chair: Kazunori Yasuda, MD, PhD JAPAN
Matteo Denti, MD ITALY
Anastasios Georgoulis, MD GREECE
Byung-Il Lee, MD, PhD KOREA
Patrick Yung, FRCS (Orth Surgery), FHKCOS, FHK, FRCS, MBChB HONG KONG

Evidence-Based Treatment of Collateral Ligaments
13:30 – 14:30  Room 718A
This Symposium will focus on the evidence based treatment of collateral ligament injuries. Presentations will include anatomy of the MCL and PLC, acute and chronic repairs versus reconstructions, treatment options and outcomes.

Chair: Robert LaPrade, MD, PhD USA
Lars Engebretsen, MD, PhD NORWAY
Bruce Levy, MD USA
Martin Lind, Prof., MD, PhD DENMARK
Coen Wijdicks, PhD USA
Running Injuries
13:30–14:30 Room 718B
Running is probably the most accessible form of exercise from competing elite athletes to those hoping to lose a few pounds. Injuries can be both a major set back for those in training and preparation, and a chronic irritation in those exercising for fitness.
In this Symposium, we discuss common injuries in the running population: Achilles tendon rupture, tendinopathy, ITB syndrome and the management of early OA. We propose options for management and resumption of running for both performance and health.

Chair: Michael Carmont, FRCS (Tr&Orth) UNITED KINGDOM
Gabriel Agar, MD ISRAEL
Francesco Benazzo, MD, Prof. ITALY
Stephane Bermon, MD, PhD MONACO

Combat Sports Injuries
14:30–15:30 Room 718B
This Symposium will focus on combat sports injuries, including injuries related to full-contact sports. Featured sports will include Capoeira, Boxing, Tae Kwon Do and Judo.

Chair: John Bergfeld, MD USA
Joseph Estwanik, USA
Seiji Miyazaki, MD, PhD JAPAN
Bas Pijnenburg, MD, PhD NETHERLANDS

Rotator Cuff: Top Tips for Ensuring More Winners
15:30–16:30 Room 701A
This Symposium will focus on controversial Issues of the Rotator Cuff disease. The latest concepts about tendinosis, biomechanics, impingement, ruptures, reconstructions and rehabilitation will be deeply debated. Management strategies and a framework for addressing complicated cases will be discussed.

Chair: Guillermo Arce, MD ARGENTINA
Steven Arnoczky, DVM USA
Klaus Bak, MD DENMARK
Stephen Burkhart, MD USA
Emilio Calvo, MD, PhD, MBA SPAIN
William Kibler, MD USA

The Mechanism of ACL Injury and Its Prevention
11:00–12:00 General Session
This Symposium will address ACL injury and methods of prevention. Presentations will include epidemiology, injury mechanism in sports, and prevention of injuries.

Chair: Lars Engebretsen, MD, PhD NORWAY
Timothy Hewett, PhD USA
Hideyuki Koga, MD, PhD JAPAN
Tron Krosshaug, PhD NORWAY
Edward Wojtys, MD USA

Upper Extremity Committee Consensus Meeting: Rotator Cuff–Rethinking Tendinosis, Impingement and Ruptures
11:00–12:00 Room 701A
This Symposium will present the results of the recent ISAKOS Upper Extremity Committee Consensus Meeting on the Rotator Cuff. Topics of presentation will include Functional Anatomy and Biomechanics; Tendinosis, Impingement and Ruptures; State of Art of Arthroscopic Reconstructions; Controversial Topics: Suprascapular Nerve Release, and Biceps Tenodesis; and The Failed Cuff: Revisions and the Role of Biologics.

Chair: Guillermo Arce, MD ARGENTINA
Giovanni Di Giacomo, MD ITALY
Eiji Itoi, MD, PhD JAPAN
Augustus Mazzocca, MS, MD USA
W. Jaap Willems, MD, PhD NETHERLANDS
Monday, May 13, 2013

**Elbow Instability in the Athlete**

11:00–12:00  Room 718B

This Symposium will address elbow instability in the athlete, including anatomy and biomechanics of elbow instability; UCL in the throwing athlete, posterolateral elbow instability and dislocations, and posterior elbow consequences of elbow instability and their treatment.

*Chair: Marc Safran, MD USA*

Gregory Bain, MB BS, FRACS, PhD AUSTRALIA

Denise Eygendaal, MD, PhD NETHERLANDS

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**Osteoarthritis in the ACL Injured Knee**

15:30–16:30  General Session

Following this Symposium, participants will have expanded knowledge on the treatment of osteoarthritis in the ACL injured knee, including etiology and pathophysiology of OA, treatment of established OA, and prevention of OA in the ACL injured knee.

*Chair: Scott Dye, MD USA*

Karl Fredrik Almqvist, MD, PhD BELGIUM

Edward Wojtys, MD USA

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**Transtibial vs. Far Anteromedial Portal vs. Outside-In Technique for Femoral Tunnel Drilling in ACL Reconstruction: Why Do You Prefer the Technique?**

13:30–14:30  General Session

This Symposium will address the debate related to ACL Reconstruction and Femoral Tunnel Drilling. International experts will defend their preferred technique, including Transtibial, Anteromedial Portal and Outside-In.

*Chair: James Lubowitz, MD USA*

Asheesh Bedi, MD USA

Mitsuo Ochi, MD, PhD JAPAN

Konsei Shino, MD, PhD JAPAN

Rainer Siebold, MD, Priv.-Doz. GERMANY

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**Strategic Approach for Partial Rotator Cuff Tears**

15:30–16:30  Room 718A

Partial cuff tears are a well-known entity in shoulder pathology. They occur both in young athletes, when the shoulder is subjected to high loads in extreme positions, as well as in older people, with degeneration as the main cause. Although the diagnosis is presently made more frequently, there is still a lot of discussion on classification, pathophysiology, diagnostic and treatment modalities.

This Symposium will bring together all new data on pathophysiology and inform the participant on the best way to diagnose this entity. The ISAKOS Upper Extremity Committee has considered it as its task to introduce an updated classification, which will be discussed during this session. Best evidence will also be pursued during the lecture on treatment of partial cuff tears.

At the end of this Symposium the participant is updated on the best evidence available for this intriguing disease.

*Chair: W. Jaap Willems, MD, PhD NETHERLANDS*

Richard Angelo, MD USA

Alessandro Castagna, MD ITALY

Benno Ejnisman, MD BRAZIL

Vicente Gutierrrez, MD CHILE

Alberto Pochini, MD BRAZIL

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**Challenging Problems in the Elbow: An International Perspective**

13:30–14:30  Room 718B

This Symposium will use an international perspective to address challenging problems in the elbow, including epicondylitis, the athlete’s elbow, the stiff elbow, and biceps and triceps injuries.

*Chair: Felix Savoie III, MD USA*

James Andrews, MD USA

Gregory Bain, MB BS, FRACS, PhD AUSTRALIA

W. Jaap Willems, MD, PhD NETHERLANDS

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**Patellofemoral Joint Instability: Evaluation and Treatment**

14:30–15:30  Room 701A

The Symposium will present to the audience the latest knowledge in PF imaging (bony abnormalities, cartilage and soft tissues damages) and the latest procedures available for treating an abnormal PF joint. The presentations will be didactic to give participants the best strategies to take care of a patient with a patellar dislocation and avoid any unsatisfactory result. The major guidelines will be outlined for the best “menu à la carte” program. A large part will be dedicated to the discussion and questions with the audience.

*Chair: David Dejour, MD FRANCE*

Elizabeth Arendt, MD USA

Jack Farr, MD USA

Julian Feller, FRACS AUSTRALIA

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**Tendinopathy: Current Understanding and Treatment**

15:30–16:30  Room 718B

Tendinopathy has replaced tendinitis as the most common cause of tendon pain and dysfunction. This Symposium will discuss the pathophysiology of tendinopathy, as well as leading methods of treatment, including eccentric strengthening, PRP injection therapy and surgical interventions.

*Chair: Nicola Maffulli, MD, PhD, MS, FRCS (Orth) UNITED KINGDOM*

Steven Amoczy, DVM USA

Jon Karlsson, Prof. SWEDEN

Pietro Randelli, MD, Prof. ITALY
The Use of Arthroscopy in Fracture Fixation: Current Applications and Future Directions
10:45–11:45 Room 718B
This Symposium will focus on the current applications and future direction of arthroscopy as it relates to fracture fixation. Intra-articular fracture, knee joint, and small-joint arthroscopy applications will be addressed.
Co-Chair: Mahmut Doral, MD, Prof. TURKEY
Co-Chair: James Lubowitz, MD USA
Kivanc Atesok, MD, MSc CANADA
Thomas Bauer, MD FRANCE
Jon Karlsson, Prof SWEDEN
Dean Matsuda, MD USA

Biology and Biomechanics of the Rotator Cuff
11:00–12:00 Room 718A
This Symposium will examine the biology and biomechanics of the Rotator Cuff, including rotator cuff tendon degeneration and healing, use of novel nano-scale polymeric patches in conjunction with autologous mesenchymal stem cells as therapy for rotator cuff tear, and mechanical expression of different pathological conditions of rotator cuff muscles.
Chair: Nahum Rosenberg, MD ISRAEL
Andrew Carr, Prof UNITED KINGDOM
Leesa Galatz, MD USA

Advances in Cartilage Treatment
14:30–15:30 Room 701A
This Course will address the recent advances in cartilage treatment. Topics of presentation will include background factor assessment for cartilage repair, Long term ACI results–Generation I, DeNovo NT ET & CAIS, Chondrofix, Hyalo-Graft C ACI arthroscopic technique and results, and promising cartilage repair techniques available.
Chair: Tom Minas, MD USA
Mats Brittberg, MD, PhD SWEDEN
Christoph Erggelet, Prof. Dr. SWITZERLAND
Jack Farr, MD USA
Andreas Gomoll, MD USA

Biological Enhancement of ACL Healing
14:30–15:30 Room 718A
This symposium will address biological enhancements in ACL healing including Associated Injuries, Bone Bruise and Chondral Injuries, Extra-Articular Ligament Injuries, and Meniscal Injuries.
Chair: Willem Van Der Merwe, MBChB, FCS, SA Ortho SOUTH AFRICA
Ryosuke Kuroda, MD JAPAN
Volker Musahl, MD USA
Andrew Pearle, MD USA
Savio Woo, PhD, DSc, DEng USA

Treatment of Osteochondritis Dissecans in Children and Adolescents
15:45–16:45 General Session
This Course will utilize a case based approach to explain the current steps in the diagnosis, treatment, and prognosis of OCD lesions in the knee and elbow in skeletally immature patients. The treatment of OCD’s in skeletally immature patients is evolving due to an increase in the understanding of this condition. The OCD Study Group has established classification systems to help with determining the diagnosis and prognosis of specific lesions. These classification systems will be presented along with cases to illustrate how the classification systems may facilitate a rational approach to diagnosing and treating ODCs.
Chair: Allen Anderson, MD USA
Moises Cohen, MD, PhD BRAZIL
Theodore Ganley, MD USA
Carl Wilson Nissen, MD USA

Surgical Simulation in Orthopaedic Skills Training: Arthroscopy and Beyond
15:30–16:30 Room 718B
This Symposium will provide an overview of the current state of surgical simulation, discussing the role of both conventional and virtual reality simulators in residency training, the design of an integrated curriculum, and the future development of this rapidly advancing field.
Chair: Andreas Gomoll, MD USA
Kivanc Atesok, MD, MSc CANADA
Laith Jazrawi, MD USA
Jay Mabrey, MD USA
C. Niek Van Dijk, MD NETHERLANDS
Current & Future Application of Knee Osteotomy: Primary Osteotomy for Osteoarthritis and Concomitant Osteotomy in Joint Reconstruction

11:00–12:00  General Session

A renewed interest in high-tibial osteotomy (HTO) for medial compartmental knee osteoarthritis and complex knee instabilities is evident. The recognition of the importance of lower limb alignment, and of the role of HTO in disease modification, and in the protection and restoration of joint homeostasis have made the procedure a viable treatment option in the younger, more demanding patient. This Symposium will address the current and future application of knee osteotomy including primary and concomitant osteotomy.

Chair: J. Robert Giffin, MD, FRCSC CANADA
Annunziato Amendola, MD USA
Philippe Neyret, MD FRANCE
David Parker, FRACS AUSTRALIA
Alex Staubli, MD SWITZERLAND

The Meniscus: 2013 Update

11:00–12:00  Room 701A

Meniscus disorders of the knee are one of the most common injuries in athletes. Proper evaluation and treatment are critical to both the short-term and long-term condition of the injured knee. This Symposium will discuss the latest research on evaluation, classification, and treatment of meniscus injuries, including traditional arthroscopic debridement, meniscus repair, allograft transplantation and the future of meniscus replacement.

Chair: Kevin Shea, MD USA
Robert Arciero, MD USA
Mark Clatworthy, FRACS NEW ZEALAND
René Verdonk, MD, PhD BELGIUM

Throwing Shoulder: Where Are We Now? Recognizing Pathomechanics, Rehabilitation vs. Surgical Treatment

11:00–12:00  Room 718A

This Symposium will focus on the throwing shoulder, as related to pathomechanics, rehabilitation and surgical treatment options.

Chair: James Andrews, MD USA
Philippe Hardy, PhD FRANCE
Willi Kibler, MD USA
Hiroyuki Sugaya, MD JAPAN

Current Controversies in Primary Knee Arthroplasty

13:30–14:30  General Session

This Symposium will address the current controversies as related to primary knee arthroplasty, including measured resection versus gap balancing, optimizing TKA with a balanced navigated approach, importance of alignment or stability in the functional outcome of TKR, kinematic alignment, and if patient expectations are being met with TKA.

Chair: Mark Clatworthy, FRACS NEW ZEALAND
William Long, MD USA
Tomoyuki Matsumoto, MD, PhD JAPAN
Willem Van Der Merwe, MBChB, FCS, SA Ortho
SOUTH AFRICA
Matthew Walker, NEW ZEALAND

Surgical and Non-Surgical Treatment Options for Early Degenerative Cartilage Lesions

13:30–14:30  Room 718A

This Symposium will review treatment options for degenerative cartilage lesions that have not yet developed into osteoarthritis. Both surgical and non-surgical treatment modalities will be covered. Surgical treatments include, osteotomies, condylar prosthesis, arthroscopic procedures, and biologic cartilage repair. Non-surgical treatments to be covered will be injection therapies, including blood based products and physiotherapy and exercise.

Chair: Martin Lind, Prof., MD, PhD DENMARK
Michel Bonnin, MD FRANCE
Constance Chu, MD USA
Jason Dragoo, MD USA
Patrick Yung, FRCS (Orth Surgery), FHKCOS, FHK, FRCS, MBChB HONG KONG

Challenging Problems in Rotator Cuff Disease: An International Perspective

14:30–15:30  Room 701A

This Symposium will use an international perspective to address challenging problems in rotator cuff diseases. It will focus on new and established techniques for arthroscopic rotator cuff repair in a partial, case-based format. Pathologies and indications of these techniques, as well as surgical tips and pearls will be discussed in an interactive format.

Chair: Guillermo Arce, MD ARGENTINA
Richard Angelo, MD USA
Klaus Bak, MD DENMARK
Felix Savoie III, MD USA
Tennis Medicine
14:30 – 15:30
Room 718B
This Symposium will review the issues related to injuries in tennis, including a look at pathophysiology and treatment guidelines, and exploration of injury prevention strategies. Topics include overview of tennis injuries and areas of concern, shoulder injuries and their relation to serve mechanics, treatment of arthritis, and conditioning for injury prevention.

Chair: William Kibler, MD USA
Javier Maquirriain, MD, PhD ARGENTINA
Kathleen Stroia, PT USA

ISAKOS & ICRS Shared Symposia on Joint Preservation
15:30 – 16:30
Room 718A
This symposia is a cooperative effort of ISAKOS and the International Cartilage Repair Society, and will focus on joint preservation. Topics will include adult stem cells for cartilage repair in post-traumatic arthritis, quality assessment of repair cartilage, articular cartilage disorders in the athlete, and stem cells and tissue engineering in cartilage repair.

Chair: Norimasa Nakamura, MD, PhD JAPAN
Constance Chu, MD USA
Christoph Erggelet, Prof. Dr. SWITZERLAND
Anthony Hollander, PhD UNITED KINGDOM
Rocky Tuan, PhD USA

Thursday, May 16, 2013

Revision ACL Reconstruction
09:00 – 10:00
Room 718B
This Symposium will focus on the current approaches to revision ACL surgery from an international perspective. Specific topics to be addressed include causes of failure, clinical evaluation and surgical management.

Chair: Christopher Harner, MD USA
Robert Marx, MD, MSc, FRCSC USA
Konsei Shino, MD, PhD JAPAN
Daniel Whelan, MD, MSc CANADA
Stefano Zaffagnini, MD ITALY

Osteonecrosis of the Knee: Causes, Management & Prevention
15:30 – 16:30
Room 718B
Osteonecrosis of the knee can be a devastating problem. Fortunately, it is an uncommon condition, but can occur spontaneously or as a complication of other conditions. Spontaneous OsteoNecrosis of the Knee (SONK) has also been associated with arthroscopy of the knee. The mechanism of this association is unclear, but has become the topic of debate and even legal claims.

This Symposium will focus on the pathogenesis of SONK and review the current literature. Also, the speakers will focus on how this condition might be anticipated and hopefully prevented. Treatment options ranging from non-operative to arthroplasty will be discussed.

Chair: Peter Myers, MBBS, FRACS AUSTRALIA
Anthony Miniaci, MD, FRCSC USA
Parag Sancheti, MS (Orth), DNB (Orth), Mch (Orth), F.Asif (Swiss) INDIA

Is 180 Degrees Always the Best Alignment After Total Knee Arthroplasty?
12:00 – 13:00
Room 718A
One of our major goals in total knee arthroplasty seems to be the perfectly aligned knee, which means a mechanical axis of 180° degrees between the femur and tibia. Do we really have to aim for a perfectly straight leg? It might be true from the biomechanical point of view in order to achieve an almost equal loading in the medial and lateral compartment of the knee. What about the function of the knee? Recent studies have shown that the natural knee is not always neutrally aligned. There is a certain percentage in our population with a constitutional varus-aligned knee. Do we need to consider the natural leg alignment of the patient when TKA surgery is planned? What about severe varus and valgus malalignment due to osteoarthritis or maldeformity, which patients may present for many years before they come for surgery? Do we have to pay more attention to the anatomy of the knee and the entire lower limb?
There are many open questions and this Symposium will help to bring more light into the dark box of leg alignment.

Chair: Roland Becker, MD PhD Prof GERMANY
Wolfgang Fitz, GERMANY
William Long, MD USA
Philippe Neyret, MD FRANCE
Parag Sancheti, MS (Orth), DNB (Orth), Mch (Orth), F.Asif (Swiss) INDIA
Jan Victor, MD, PhD BELGIUM