2011 International Skeletal Society ANNUAL MEETING
SEPTEMBER 21 – 24, 2011
Hotel del Coronado
San Diego, California
Abreu, Marcelo
Arkun, Remide
Astrom, K. Gunnar
Azouz, Michael
Ball, Scott T.
Bancroft, Laura W.
Begg, Ian
Beltran, Javier
Bencardino, Jenny T.
Berquist, Thomas H.
Blankenbaker, Donna G.
Bloom, Johan L.
Bohdorf, Klaus
Bonakdarpour, Akbar
Bonar, Sally Fiona M.
Boutin, Robert
Brandser, Eric A.
Bredella, Miriam A.
Buckwalter, Kenneth A.
Bureau, Nathalie J.
Campbell, Robert S.D.
Carrino, John A.
Cassar Pullicino, Victor N.
Cheng, Xiao G.
Chevrot, Alain
Chung, Christine B.
Connell, David
Conway, William F.
Cotten, Anne
Craig, Joseph G.
Cruces, John V.
Dalinka, Murray Kenneth
Davies, A. Mark
De Smet, Arthur A.
DiCarlo, Edward
Dion, Elisabeth
Disler, David Glenn
Downey-Boutin, Robert
Drape, Jean Luc
Dwek, Jerry
Ehara, Shigeru
El-Khoury, Georges Y.
Fanburg-Smith, Julie C.
Feldman, Frieda
Fessell, David P.
Finlay, Karen
Forster, Bruce B.
Fritz, Russell C.
Fukuda, Kunihiko
Galloway, Howard
Gannon, Francis H.
Genant, Harry K.
Gentili, Amilcare
Gilula, Louis A.
Glaser, Christian
Gold, Gary
Grainger, Andrew J.
Griffith, James F.
Guglielmi, Giuseppe
Haims, Andrew H.
Hameed, Meera
Haramati, Bogah
Harish, Srinivasan
Hatem, Stephen F.
Healy, Jeremiah C.
Hlasan, Hakan
Imhof, Herwig
Inwards, Carrie Y.
Jacobson, Jon A.
Jaovisidha, Suphaneeewan
Jee, Won-Hee
Kainberger, Franz M.
Kassarjian, Ara
Kattapuram, Susan V.
Kaye, Jeremy J.
Kijowski, Richard
Kleinman, Paul K.
Kneeland, J. Bruce
Kramer, Josef
Kransdorf, Mark J.
Lambert, Robert G.W.
Lang, Philipp K.
Lenchik, Leon
Link, Thomas M.
Lopez, Robert R.
Ma, Benjamin
Maas, Mario
McGee, Thomas H.
Mahboubi, Soroosh
Major, Nancy M.
Martinez, Salutario J.
Martinoli, Carlo
McCull, Iain W.
Miller, Theodore T.
Monu, Johnny U.V.
Moore, Sandra L.
Morrison, William B.
Mulligan, Michael E.
Munk, Peter L.
Murphy, Mark D.
Newman, Joel S.
O'Connor, Philip J.
O'Donnell, Paul G.
Ostler, Simon
Palmer, William E.
Panicek, David M.
Pathria, Mini N.
Peh, Wilfred C.G.
Petersilge, Cheryl A.
Petersson, Jeffrey J.
Pfirrmann, Christian W.
Philippon, Marc J.
Pitt, Michael J.
Polster, Joshua M.
Pope, Jr., Thomas L.
Recht, Michael P.
Reijnierse, Monique
Reiners, William R.
Resnick, Donald L.
Resnick, Charles S.
Richards, Paula J.
Roberts, Catherine C.
Robinson, Philip
Rodrigues da Abreia, Marcelo
Roemer, Frank
Rogers, Lee F.
Rosenberg, Zehava S.
Rosenthal, Daniel I.
Rubin, David A.
Schweitzer, Mark E.
Seeger, Leanne L.
Shabshin, Bogah
Shahabpour, Maryam
Shapiro, Lorraine G.
Sheehan, Andrea N.
Sofka, Carolyn M.
Sonin, Andrew
Steinbach, Lynne S.
Stevens, Kathryn
Sundaram, Murali
Taljanovic, Miha S.
Teh, James
Tehranzadeh, Jamshid
Theumann, Nicolas
Toms, Andoni P.
Tuite, Michael J.
Van Holsbeeck, Marnix T.
Vanel, Daniel
Wakefield, Richard
White, Lawrence
Williams, Ill, Riley
Wilson, David L.
Winalski, Carl S.
Yao, Lawrence
Yoshioka, Hiroshi
Yu, Joseph S.
Zanetti, Marco
Zlatkin, Michael B.
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<th>Group B</th>
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<tr>
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<td>ANATOMY AND SCANNING TECHNIQUES</td>
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<tr>
<td></td>
<td>Jon Jacobson</td>
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<td>09:15 - 09:35</td>
<td>SHOULDER DEMONSTRATION</td>
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<tr>
<td></td>
<td>Marnix van Holsbeeck</td>
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<td>09:35 - 10:15</td>
<td>ROTATOR CUFF TEARS</td>
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<td></td>
<td>Philip O'Connor</td>
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<tr>
<td>10:15 - 10:30</td>
<td>BREAK</td>
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<td>10:30 - 16:00</td>
<td>BREAKOUTS: GROUPS A &amp; B</td>
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<tr>
<td>10:30 - 10:45</td>
<td>Pitfalls in Shoulder Ultrasound</td>
<td>Hands-On Scanning</td>
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<td>James Griffith</td>
<td>Ron Adler</td>
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<td>10:45 - 11:00</td>
<td>Impingement</td>
<td>David Connell</td>
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<td>Andrew Grainger</td>
<td>Joseph Craig</td>
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<td>11:00 - 11:15</td>
<td>Biceps Tendon</td>
<td>Karen Finlay</td>
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<td>Simon Oslere</td>
<td>Srinivasan Harish</td>
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<td>11:15 - 11:30</td>
<td>Break</td>
<td>Jeremiah Healy</td>
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<td>11:30 - 11:45</td>
<td>Post-Operative Rotator Cuff</td>
<td>Josef Kramer</td>
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<td>Monique Reijnierse</td>
<td>Theodore Miller</td>
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<td>Marnix van Holsbeeck</td>
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<td>11:45 - 12:00</td>
<td>Calcific Tendinosis</td>
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<td>Nathalie Bureau</td>
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<td>12:00 - 12:15</td>
<td>Miscellaneous Shoulder Pathology</td>
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<td>David Fessell</td>
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<td>12:15 - 12:30</td>
<td>Unknown Cases</td>
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<td>Franz Kainberger</td>
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<td>12:30 - 14:00</td>
<td>Lunch</td>
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<td>14:00 - 16:00</td>
<td>Hands-On Scanning</td>
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<td>Paul O'Donnell</td>
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<td>Paula Richards</td>
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<td>Mihra Taljancovic</td>
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<td>James Teh</td>
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<td>Andoni Toms</td>
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WEDNESDAY, SEPTEMBER 21, 2011
SPORTS IMAGING: DAY 1 (MORNING)

08:00 – 08:20  INTRODUCTION
Moderators: Javier Beltran; Lawrence White

08:20 – 09:50  MUSCULOSKELETAL IMPINGEMENT: CONCEPTS AND CONTROVERSIES
Moderators: Javier Beltran; Don Resnick

08:20 – 08:40  Mechanism of Impingement: Concepts and Controversies
Don Resnick

08:40 – 08:55  Histopathologic Sequellae of Musculoskeletal Impingement
Fiona Bonar

08:55 – 09:10  US: Dynamic Imaging of Impingement
Andrew Grainger

09:10 – 09:30  Impingement: Is It a Radiologic Diagnosis
Benjamin Ma

09:30 – 09:50  MR Imaging of Impingement: Controversies and Challenges
William Palmer

09:50 – 10:20  BREAK

10:20 – 12:40  SHOULDER

10:20 – 10:25  Case Presentation
Michael Zlatkin

10:25 – 10:45  MR of Rotator Cuff and Pitfalls
Michael Tulise

10:45 – 11:05  Microinstability
Benjamin Ma

11:05 – 11:25  Which SLAP Tears are Important?
Javier Beltran

11:25 – 11:45  Bankart and Beyond
Lawrence White

11:45 – 12:05  Can MR Diagnose Adhesive Capsulitis
Lynne Steinbach

12:05 – 12:30  Normal Labral Variants: Are They Really Normal?
Russell Fritz

12:30 – 12:40  Case Discussion
Michael Zlatkin

12:40 – 14:00  LUNCH
WEDNESDAY, SEPTEMBER 21, 2011
TUMORS, TRAUMA, DEGENERATION: DAY 1 (MORNING)

08:00 – 08:20   INTRODUCTION
Moderators: Javier Beltran; Lawrence White

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Fiona Bonar
08:55 – 09:10   US: Dynamic Imaging of Impingement
Andrew Grainger
09:10 – 09:30   Impingement: Is It a Radiologic Diagnosis
Benjamin Ma
09:30 – 09:50   MR Imaging of Impingement: Controversies and Challenges
William Palmer

09:50 – 10:20   BREAK

10:20 – 12:40   PRIMARY BONE TUMORS – BACK TO BASICS
Moderators: Shigeru Ebara; Paul O’Donnell
10:20 – 10:25   Case Presentation
Shigeru Ebara
10:25 – 10:40   Key Pathology of Benign Bone Lesions
Frank Gannon
10:40 – 11:05   Key Radiology of Benign Bone Lesions
Mark Murphey
11:05 – 11:25   Key Pathology of Malignant Bone Lesions
Edward DiCarlo
11:25 – 11:50   Key Radiology of Malignant Bone Lesions
Mark Kransdorf
11:50 – 12:05   Core Biopsy Challenges for the Radiologist and Pathologist
Laura Bancroft
Meera Hameed
12:05 – 12:15   Bone Biopsy Tips and Tricks
Peter Munk
12:15 – 12:30   Ablating Osteoid Osteomas: How I Do It!
Dan Rosenthal
12:30 – 12:40   Case Discussion
Shigeru Ebara

12:40 – 14:00   LUNCH
14:00 – 15:55  INJURIES IN SPECIFIC SPORTS 1
Moderators: Andrew Grainger; Lawrence White

14:00 – 14:05  Introduction
Lawrence White

14:05 – 14:15  Soccer: Anterior Ankle Impingement
Philip Robinson

14:15 – 14:25  American Football: Turf Toe
Joel Newman

14:25 – 14:35  Cricket: Intercostal Injuries
David Connell

14:35 – 14:45  Cyclists Wrist
Eric Brandser

14:45 – 14:55  Weightlifting: Pectoralis Tears
Joseph Yu

14:55 – 15:05  American Football: High Ankle Sprain
Joshua Polster

15:05 – 15:15  Runners: Anterior Knee Pain
Bruce Kneeland

15:15 – 15:25  Snowboarders Ankle Frx
Bruce Forster

15:25 – 15:35  Gymnasts Wrist
Jerry Dwek

15:35 – 15:45  Soccer: Groin Pain
Philip Robinson

15:45 – 15:55  Surfing Injuries
Mini Pathria

15:55 – 16:25  BREAK

16:25 – 17:55  ELBOW
Moderators: Robert Lopez; Maryam Shahabpour

16:25 – 16:45  Soft Tissue Injuries in the Throwing Elbow: Adults
Theodore Miller

16:45 – 17:00  MR and US of Epicondylitis
Carolyn Sofka

17:00 – 17:15  Imaging Elbow Tendons: Biceps and Triceps Injuries
Kathryn Stevens

17:15 – 17:35  Osteochondral Lesions of the Elbow in Sports: Imaging & Treatment
Marco Zanetti

17:35 – 17:55  Don’t Get Trapped: Neuropathies Around the Elbow and Forearm
Zehava Sadka Rosenberg
<table>
<thead>
<tr>
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<th>Session Title</th>
<th>Presenter(s)</th>
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</thead>
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<tr>
<td>14:00 – 14:05</td>
<td>Case Presentation</td>
<td>Salutario Martinez</td>
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<tr>
<td>14:05 – 14:20</td>
<td>Curves and Bumps: What the Pathologist Sees</td>
<td>Julie Fanburg-Smith</td>
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<tr>
<td>14:20 – 14:40</td>
<td>Ultrasound Diagnosis of the Soft Tissue Mass: How Specific Can We Be?</td>
<td>Robert Campbell</td>
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<td>14:40 – 15:00</td>
<td>MRI Diagnosis of the Soft Tissue Mass: What Features are Relevant?</td>
<td>Murali Sundaram</td>
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<tr>
<td>15:00 – 15:10</td>
<td>Soft Tissue Biopsy in the 21st Century</td>
<td>TBD</td>
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<tr>
<td>15:10 – 15:25</td>
<td>Gad or No Gad: That is the Question: Do We Need Gad to Image Soft Tissue Tumors?</td>
<td>Daniel Vanel</td>
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<tr>
<td>15:25 – 15:45</td>
<td>Staging Sarcomas: How Do I Do It?</td>
<td>Catherine Roberts</td>
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<td>15:45 – 15:55</td>
<td>Case Discussion</td>
<td>Salutario Martinez</td>
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<td>15:55 – 16:25</td>
<td>Break</td>
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<tr>
<td>16:25 – 17:55</td>
<td>Concurrent Focus Sessions</td>
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<tr>
<td>FOCUS SESSION: HEMATOLOGIC MALIGNANCES</td>
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<td>Moderators: Frank Gannon; Francisco Aparisi</td>
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<td>16:25 – 16:45</td>
<td>Introduction to the WHO Classification</td>
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<td>16:45 – 17:00</td>
<td>of Hematologic Malignancies</td>
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<td>17:00 – 17:10</td>
<td>Identifying Bone Lymphomas</td>
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<td>17:10 – 17:30</td>
<td>Pathologic Characteristics of Plasma Cell</td>
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<td>17:30 – 17:45</td>
<td>Radiologic Features of Osseous</td>
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<td>17:45 – 17:55</td>
<td>Diagnostic Difficulties in Pathologic</td>
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<td>17:45 – 17:55</td>
<td>Case Discussion</td>
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</table>

FOCUS SESSION: CARTILAGE REPAIR - ISS MEETS ICRS (INTERNATIONAL CARTILAGE REPAIR SOCIETY)  
Moderators: Carl Winalska; Edward DiCarlo

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:25 – 16:45</td>
<td>Advanced MR Imaging of Articular Cartilage</td>
<td>Gary Gold</td>
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<tr>
<td>16:45 – 17:05</td>
<td>Articular Cartilage Repair Strategies - A Surgical Algorithm</td>
<td>Riley Williams, III</td>
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<td>17:05 – 17:25</td>
<td>Histopathology of Cartilage Repair – Natural and Surgical</td>
<td>Edward DiCarlo</td>
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<td>17:25 – 17:45</td>
<td>Image Assessment of Articular Cartilage Repair</td>
<td>Carl Winalska</td>
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<tr>
<td>17:45 – 17:55</td>
<td>Panel Discussion</td>
<td>All Faculty</td>
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</table>
08:00 – 09:40 PEDIATRIC SPORTS INJURIES
Moderators: Jamshid Tehrzanadeh; Steve Hatem
08:00 – 08:05 Case Presentation
Jamshid Tehrzanadeh
08:05 – 08:25 MR Imaging the Pediatric Knee: Pearls and Pitfalls
Suzanne Anderson
08:25 – 08:40 Injuries in the Young Overhead Thrower
Richard Kijowski
08:40 – 09:00 Non-Throwing Stress Injuries in the Pediatric Population
Gina Allen
09:00 – 09:15 Sports Injuries of Pelvis and Hip in Children
Soroosh Mahboubi
09:15 – 09:30 Pediatric Foot MR: Watch Out for Normal Variants!
Simon Ostlere
09:30 – 09:40 Case Discussion
Jamshid Tehrzanadeh

09:40 – 10:10 BREAK

10:10 – 12:05 HAND & WRIST
Moderators: Suphaneeewan Jaovisidha; Leon Lenchik
10:10 – 10:15 Case Presentation
Leon Lenchik
10:15 – 10:35 Conventional MR of the SL and LT Ligaments: Ready for Routine Practice?
Andrew Haime
10:35 – 1055 Ulnar-Sided Wrist Pain in Athletes
Hiroshi Yoshioka
10:55 – 11:15 Extrinsic Carpal Ligament Injuries: What Can We See?
Nicolas Theumann
11:15 – 11:35 Imaging Tendon Abnormalities of the Hand & Wrist
Carlo Martinoli
11:35 – 11:55 Imaging Osseous Sports Injuries of the Hand & Wrist
Nancy Major
11:55 – 12:05 Case Discussion
Leon Lenchik

12:05 – 13:30 LUNCH
THURSDAY, SEPTEMBER 22, 2011
TUMOR, TRAUMA, DEGENERATION: DAY 2 (MORNING)

08:00 – 09:40 STATE OF THE ART
Moderators: Kunihiko Fukuda; Howard Galloway
08:00 – 08:20 State-of-the-Art Imaging of Arthritis:
Focus on Dynamic Contrast and UTE
Franz Kainberger
08:20 – 08:35 Computer-Aided Detection in Musculoskeletal Disease
Giuseppe Guglielmi
08:35 – 08:50 Fusion Imaging of the Musculoskeletal System
Marnix van Holsbeek
08:50 – 09:05 New Techniques in Musculoskeletal Tumor Imaging
Hakan Ilaslan
09:05 – 09:25 Diffusion Imaging in the Assessment of MSK Disease
TBD
09:25 – 09:40 Pharmacokinetic Analysis of Dynamic Contrast Enhanced Images
Lawrence Yao

09:40 – 10:10 BREAK

10:10 – 12:05 PRIMARY BONE TUMOURS – BEYOND THE BASICS
Moderators: Xiao Cheng; Johan Bloem
10:10 – 10:15 Case Presentation
Xiao Cheng
10:15 – 10:35 Tumor Mimics: The Sheep in Wolf’s Clothing
Daniel Vanel
10:35 – 10:55 PET-CT: Pitfalls & Artifacts for the MSK Radiologist
Jeff Peterson
10:55 – 11:15 Ten Common Errors When Referring to a Bone Tumor Center
Mark Davies
11:15 – 11:35 Imaging Assessment of the (Non-Operative) Patient Undergoing Neo-Adjuvant
Therapy: A Structured Approach
Johan Bloem
11:35 – 11:55 Imaging Assessment of the Post-Operative Patient: A Structured Approach
David Panicek
11:55 – 12:05 Case Discussion
Xiao Cheng

12:05 – 13:30 LUNCH
**THURSDAY, SEPTEMBER 22, 2011**
**SPORTS IMAGING: DAY 2 (AFTERNOON)**

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<thead>
<tr>
<th>Time</th>
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<th>Presenters</th>
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| 13:30 - 15:20 | INJURIES IN SPECIFIC SPORTS 2 | Gymnasts Elbow: Philip O'Connor; James Teh  
13:30 - 13:40 | Andrew Sonin  
13:50 - 14:00 | Skiers Thumb: Joseph Kramer  
14:00 - 14:10 | Swimmers Shoulder: Thomas MaGee  
14:10 - 14:20 | Dancers Ankle: Posterior Impingement: Jeremiah Healy  
14:20 - 14:30 | Runners Stress Fx: William Reinus  
14:30 - 14:40 | Rowers Spondylolysis: David Wilson  
14:40 - 14:50 | Sprinters: Hamstring Muscle Tears: Monique Reijnierse  
14:50 - 15:00 | Basketball Ankle Collateral Ligament Injuries: Mario Maas  
15:00 - 15:10 | Tennis Leg: Cheryl Petersilge  
15:10 - 15:20 | Golf: ECU Instability and Subluxation: Maryam Shahabpour  
<p>| 15:20 - 15:50 | BREAK |<br />
| 15:50 - 17:35 | FILM INTERPRETATION PANEL | Film Interpretation Panel: Don Resnick; Mini Pathria; Christine Chung |</p>
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<td>ARTHRITIS</td>
<td>Moderators: Elisabeth Dion; Akbar Bonakdarpour</td>
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<td>Case Presentation</td>
<td>Elisabeth Dion</td>
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<td>13:55 – 14:15</td>
<td>How to Read Arthritis Radiographs: The Axial Skeleton</td>
<td>Herwig Imhof</td>
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<td>14:15 – 14:30</td>
<td>The Evolving Role of Imaging: The Rheumatologist’s Perspective</td>
<td>Richard Wakefield</td>
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<td>14:30 – 14:45</td>
<td>Screening for Early Inflammatory Arthritis: US or MRI?</td>
<td>Philip O'Connor</td>
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<td>14:45 – 14:55</td>
<td>The Challenge of Defining OA on MRI</td>
<td>Frank Roemer</td>
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<td>14:55 – 15:10</td>
<td>Spondyloarthritis MRI: Protocols, Pearls &amp; Pitfalls</td>
<td>Jean-Luc Drape</td>
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<td>15:10 – 15:20</td>
<td>Case Discussion</td>
<td>Elisabeth Dion</td>
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<td>15:20 – 15:50</td>
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08:00 – 09:40  TECHNICAL FRONTIERS IN SPORTS IMAGING
Moderators: Won-Hee Jee; Jon Jacobson
08:00 – 08:15  Multichannel Coils in MSK MR: Where are We Going?
Philipp Lang
08:15 – 08:30  3D Fast Spin Echo Imaging: Future of MSK Imaging?
Christian Glaser
08:30 – 08:50  Making the Most of Your 3T Scanner
John Carrino
08:50 – 09:05  Optimizing Low Field MR
John Crues
09:05 – 09:25  Latest Trends in Musculoskeletal Ultrasound
Jon Jacobson
09:25 – 09:40  Muscle Imaging: Advanced Techniques
Robert Boutin

09:40 – 10:10  BREAK

10:10 – 12:10  ISS MEETS ISHA (INTERNATIONAL SOCIETY OF HIP ARTHROSCOPY)
Moderators: Michael Recht; Marc Philippon
10:10 – 10:15  Introduction
Michael Recht
10:15 – 10:35  FAI: Imaging Findings
Ara Kasserjian
10:35 – 10:55  Current Controversies and Challenges in Imaging FAI
Michael Recht
10:55 – 11:15  Surgical Options in FAI: How Imaging Findings Affect My Decisions
Marc Philippon
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Christian Pfirrmann
11:35 – 12:05  FAI: Truth or Fiction – Point-Counterpoint
David Rubin
Marc Philippon
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12:10 – 13:30  LUNCH
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### ANKLE & FOOT

**Moderators:** Paula Richards; Amilcare Gentili

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**Time:** 15:20 – 15:50

### KNEE

**Moderators:** David Disler; Nogah Haramati

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Moderators: Frieda Feldman; Jeremy Kaye

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   How Do We Image & What the Surgeon Wants to Know:
   1) Pelvic Fractures
      Jeremy Kaye
   13:35 – 13:50  2) Acetabular Fractures
      Jeremy Kaye
   13:50 – 14:10  3) Tibial Plateau Fractures
      George El-Khoury
   14:10 – 14:20  4) Fractures of the Talus and Calcaneum
      William Conway
   14:20 – 14:35  5) Forefoot Fractures and Dislocations
      Lee Rogers
   14:35 – 14:50  Stress and Insufficiency Fractures of the Pelvis and Lower Limb
      Thomas Link
   15:10 – 15:20  Case Discussion
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15:50 – 17:45  TRAUMA: SPINE AND BEYOND

Moderators: Alain Chevrot; Charles Resnik

15:50 – 15:55  Case Presentation
   Charles Resnik
15:55 – 16:15  "Tip of the Iceberg Fractures": Little Fracture, Big Injury!
   Mark Schweitzer
16:15 – 16:30  Clearing the Cervical Spine: Miss It and They’re Dead!
   TBD
16:30 – 16:45  Vertebral Fracture Benign vs. Malignant, Acute vs. Chronic
   Judith Adams
16:45 – 17:05  Occult Injuries: Is MRI a Help or Hinderance?
   Murray Dalinka
17:05 – 17:20  OCD: What the Surgeon Needs to Know
   Miriam Bredella
17:20 – 17:35  Pediatric Fractures: When are Plain Films Not Enough?
   Michel Azouz
17:35 – 17:45  Case Discussion
   Charles Resnik
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