



the
International Skeletal Society

45th Annual Meeting

MUSCULOSKELETAL IMAGING COURSE

September 26-28, 2018

COURSE HIGHLIGHTS

- ▶ Case-Based Interactive Audience Response Sessions
- ▶ 4 Self-Assessment Module Offerings
- ▶ Recommendations for MSK Dilemmas
- ▶ Hot Topics in Musculoskeletal Imaging
- ▶ Orthopedic Pathology Course
- ▶ Musculoskeletal Ultrasound Course



InterContinental Berlin | Berlin, Germany | www.internationalskeletalsociety.com

The International Skeletal Society (ISS) invites you to its 45th annual refresher course in Musculoskeletal Radiology. The program is exceptional on numerous counts. All aspects of MSK radiology are covered over three days. The speakers are international experts who have literally written the books on MSK MRI, CT, ultrasound and radiography.

Parallel tracks give participants the option of attending lectures focusing on either sports medicine or other MSK disorders such as neoplasm, infection, arthritis and metabolic disease. In the sports track, lectures emphasize the current thinking about anatomy, physiology and traumatic mechanisms of injury. The program is designed for depth of knowledge. In the MSK disorders track, speakers will address hot topics including bone marrow, peripheral nerves, orthopedic hardware and cartilage. Interventional topics encompass injections, percutaneous treatments and biopsy techniques comparing ultrasound, CT and fluoroscopic guidance.

Here are some highlights:

- Opening session on bone marrow imaging with histopathological correlation
- MSK imaging dilemmas with evidence-based recommendations
- ISS meets DGMSR: imaging of the shoulder
- Self-assessment modules (SAM)
- Interactive audience response sessions (ARS)
- Sports-specific injuries involving joints and muscles
- Rapid-fire presentations on bone and soft tissue tumors
- Traditional film quiz panel

Several optional courses are available. The one-day MSK ultrasound course takes place on Tuesday. Space is limited for the small group tutorials in which participants can scan models under the supervision of experienced tutors. The one-day radiology-pathology correlation course happens on Sunday. Participants in this pathology course are welcome to join ISS members for case presentations during the Members Meeting on Monday and Tuesday.

In 2018, the ISS refresher course will take place in Berlin at the InterContinental Hotel. The InterCon is recently updated and well located in the Tiergarten district of Berlin, minutes from the Zoo, KaDeWe and Bikini Berlin. Berlin is Germany's largest city and its capital since the reunification of East and West Germany in 1990. Most importantly, Berlin is an extraordinarily vibrant, profoundly historical and cutting-edge cultural city.

We hope you will join us in Berlin.

William Palmer
ISS President

Laura Bancroft
Chair, Program Committee

Andreas Heuck
Chair, Local Organizing Committee

Berlin, the German capital, is renowned for its exceptional variety of attractions, its flourishing cultural scene and a way of life that's both fast-paced and relaxed. Contrasts between historical buildings and modern architecture, between the traditional and the modern are what set the city apart from the rest. The sights of Berlin – from the Brandenburg Gate to the Federal Chancellery – tell the story of an entire nation.



Ronald Adler, MD, PhD
 Georgina Allen, FRCR, MScSEM
 Nicolas Amoretti, MD
 Mark Anderson, MD
 Suzanne Anderson, MD, PhD
 Gustav Andreisek, MD, MBA
 E. Remide Arkun, MD
 Laura Bancroft, MD, FACR
 Antonio Barile, MD
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 Alberto Bazzocchi, MD, PhD
 Francesca D. Beaman, MD
 Ian Beggs, FRCPE, FRCR
 Jenny Bencardino, MD
 D. Lee Bennett, MD, MA, MBA
 Donna Blankenbaker, MD
 Klaus Bohndorf, MD
 S. Fiona Bonar, MB, FRCPath, FRCPA
 Marcelo Bordalo-Rodrigues MD, PhD
 Robert Boutin, MD
 Miriam Bredella, MD
 Earl W. Brien, MD
 Kenneth Buckwalter, MD, MS, MBA
 Charles Bush, MD
 Robert Campbell, MD
 John Carrino, MD, MPH
 Victor Cassar-Pullicino, MD
 Nancy Chauvin, MD
 Avneesh, Chhabra, MD
 Jung-Ah Choi, MD
 Hema Choudur, MBBS, FRCPC
 Christine Chung, MD
 Anne Cotten, MD
 Joseph Craig, MB, ChB
 Michel Crema, MD
 Julia Crim, MD
 John Crues, MD, MS
 Marcelo De Abreu, MD
 Michael Dienst, MD
 Tobias Dietrich, MD

Hassan Douis MD, MRCP, FRCR
 Jean Luc Drape, MD
 Neils Egund, MD, DMSc
 Rainer Erlemann, MD
 Julie Fanburg-Smith, MD
 Laura Fayad, MD
 David Fessel, MD
 Bruce Forster, MD, MSc, FRCPC
 Anastasia Fotiadou, MD, PhD
 Karl-Friedrich Kreitner, MD
 Jan Fritz, MD
 Howard Galloway, FRANZCR
 Christian Glaser, MD
 Garry Gold, MD
 Andrew Grainger, BM, BS, MRCP, FRCR
 James Griffith, MB, BCh, BAO, MD
 Ali Guerhazi, MD, PhD
 Giuseppe Guglielmi, MD
 Soterios Gyftopoulos, MD
 Alice Ha, MD, MS
 George Hermann, MD
 Andreas Heuck, MD
 Mary Hochman, MD
 Benjamin Howe, MD
 Tudor Hughes, FRCR
 Hakan Ilaslan, MD
 Jon Jacobson, MD
 Steven James, MB, ChB, FRCR
 Suphaneewan Jaovisidha, MD
 Anne Jurik, DMSc
 Richard Kijowski, MD
 Hee Kyung Kim, MD
 Andrea Klauser, MD
 Josef Kramer, MD
 Mark J. Kransdorf, MD
 Radhesh Lalam, MBBS, MRCS, FRCR
 Robert Lambert, MB, FRCPC
 Jean-Denis Laredo, MD
 Thomas LeCorroller, MD, PhD
 Frederic LeCouvret, MD

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 Thomas Link, MD, PhD
 James Linklater, MBBS
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 Peter Munk, MDCM, FRCPC, FSIR
 Mark Murphey, MD
 Iris-Melanie Noebauer-Huhmann, MD
 Philip O'Connor, MD
 Paul O'Donnell, MBBS, FRCP, FRCR
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 Donald Resnick, MD
 Michael Richardson, MD
 Philip Robinson, FRCR
 Frank Roemer, MD
 Andrea Roskopf, MD

David Rubin, MD
 Christoph Schaeffeler, MD
 Rainer Schmitt, MD, PhD
 Mark Schweitzer, MD
 Luca Sconfienza, MD, PhD
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 Maryam Shahabpour, MD
 Stacy Smith, MD
 Carolyn Sofka, MD
 Andrew Sonin, MD, FACR
 Lynne Steinbach, MD
 Kathryn Stevens, MD, BS (hons)
 Naveen Subhas, MD
 Reto Sutter, MD
 Mihra Taljanovic, MD, PhD
 Atul Taneja, MD, PhD
 James Teh, MBBS, MRCP, FRCR
 Michael Tuite, MD
 Prudencia Tyrrell, MD
 Hilary Umans, MD
 Marnix Van Holsbeeck, MD
 Bruno Vande Berg, MD, PhD
 Daniel Vanel, MD
 Filip Vanhoenacker, MD, PhD
 Violeta Vasilevska Nikodinovska MD, PhD, MSc
 Koenraad Verstraete, MD
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OVERALL MEETING DESIGN

During this six-day meeting, all attendees are welcome to register for the three-day refresher course, our main educational activity. All attendees can also register for our one-day Pathology Orthopedic Course and Hands-On Ultrasound Course. The Members Meeting, our two-day scientific program, is open to ISS members. The multiple sessions are designed to meet the needs of the multi-disciplinary physicians attending the course. The course focus is targeted towards, pathologists, radiologists, researchers, sonographers, allied health providers and other professionals interested in musculoskeletal imaging.

The primary goal of the refresher course is to provide a rich educational experience for attendees. The wide variety of educational sessions allows participants to remedy educational gaps, regardless of experience or scope of practice. Attendees of the course can expect to gain in depth knowledge of common clinical entities and exposure to uncommon disorders, while also learning of the latest innovations in advanced imaging and therapeutic interventions.

EDUCATIONAL OBJECTIVES

At the conclusion of the ISS 45th Annual Meeting and Musculoskeletal Imaging Course, attendees should be able to:

1. Explain the pathophysiology and imaging findings of commonly encountered musculoskeletal disorders and sports related injuries.
2. Identify appropriate utilization of radiographs, CT, MRI and ultrasound for evaluating musculoskeletal disorders.

ULTRASOUND AND GUIDED INTERVENTION: MUSCLE, NERVE AND FAT

The need for the hands-on ultrasound workshop and lectures has been established from discussions with the ISS program committee, the feedback from past ISS program committee, the feedback from past ISS program committee and past ISS hands-on workshops, and faculty participation in other similar hands-on ultrasound workshops across the world. The topic chosen for this year's course is ultrasound of Muscle, Nerve and Fat. In addition to didactic lectures, the attendees will participate in hands-on scanning tutorials, allowing the delegates to work in small groups with experts to practice their scanning of muscles, nerves, and fat.

ACCREDITATION

Please visit the website for CME and Sonographer accreditation updates: www.internationalskeletalsociety.com

EDUCATIONAL NEEDS

Musculoskeletal imaging involves a broad spectrum of pathology including sports related injuries, trauma, arthritis, infection, osseous and soft tissue tumors, and metabolic bone disease. The diagnosis and management of musculoskeletal disorders increasingly relies upon advanced imaging. Further, image guided biopsy and therapeutic interventions play an important role in the management of musculoskeletal disorders. Given these demands, musculoskeletal imagers require ongoing education to maintain an extensive knowledge base, be skilled in state-of-the-art imaging techniques, and understand the latest advances in clinical management.

The refresher course is structured to fully address the educational needs of musculoskeletal imagers. Two parallel tracks in sports medicine imaging and musculoskeletal imaging provide attendees a wide selection of activities to fulfill their individual educational needs. Educational sessions within each track concentrate on specific pathology and anatomic regions. Conventional didactic lectures are supplemented by highly focused "rapid fire" sessions to maximize the educational yield for participants. To facilitate integration of educational material into clinical practice, attendees are encouraged to participate in case interpretation sessions. Interactive events include a film interpretation panel and an innovative "at the PACS" session combining real-time interpretation with didactic materials.

The sports medicine imaging track includes topics reviewing anatomy and pathology of the shoulder, elbow, wrist, hip, knee, ankle and foot. Rapid fire sessions focus on sites of complex anatomy and specific injuries. Special sessions addressing tendon, cartilage, bone and muscle emphasize the evaluation of musculoskeletal structural substrates, affording an in depth exploration of biomechanics, pathophysiology, and advanced imaging. Attendees are assured of an expansive educational experience with offerings that include tendon histopathology, advanced cartilage imaging, pediatric sports injuries, postoperative imaging, and numerous specific sports related injuries.

The musculoskeletal disease track covers a broader array of pathology, acting as both a comprehensive review and update on recent advances. Common musculoskeletal findings are discussed in an introductory "differential and diagnosis" session, with subsequent sessions on trauma, bone and soft tissue tumors, metabolic bone disease and arthritis. Additional sessions address disorders of the spine and peripheral nerves, imaging of orthopedic hardware, and musculoskeletal therapeutic interventions. Advanced imaging techniques are discussed using the popular rapid fire format, including whole body MRI, dual energy CT and metal artifact reduction methods.

MUSCULOSKELETAL IMAGING COURSE

7:00 - 17:00

REGISTRATION/INFORMATION DESK HOURS

7:00 - 16:00

EXHIBIT HALL HOURS

DAY 1

WEDNESDAY, SEPTEMBER 26, 2018

COMBINED SESSION - POTSDAM I/III

| | |
|--------------|---------------------------------------------------------------------------------------------------------------|
| 8:00 - 8:10 | INTRODUCTION <i>Laura Bancroft, MD, FACR</i> |
| 8:10 - 10:00 | Opening Session: Bone Marrow Moderators: <i>Lawrence White, MD, Michael Tuite, MD</i> |
| 8:10 - 8:35 | Bone Marrow Changes Related to Injury: Anatomy, Pathophysiology, and Terminology <i>Donald Resnick, MD</i> |
| 8:35 - 8:55 | Bone Marrow Histopathology, for Correlation with Radiology <i>Julie Fanburg-Smith, MD</i> |

| | |
|--------------|---------------------------------------------------------------------------------------------------------|
| 8:55 - 9:15 | Pediatric Marrow Disorders <i>Nancy Chauvin, MD</i> |
| 9:15 - 9:35 | Bone Marrow Changes in Arthritis, What Are They and Why Do They Matter? <i>Frank Roemer, MD</i> |
| 9:35 - 10:00 | Bone Tumors with Prominent Marrow Edema: A Useful Sign in Differential Diagnosis <i>Mark Murphy, MD</i> |

SPORTS MEDICINE IMAGING - POTSDAM I

| | |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 - 10:30 | BREAK |
| 10:30 - 12:00 | Hot Topics Moderators: <i>Michael Recht, MD, Patrick Omoumi, MD, PhD</i> |
| 10:30 - 10:45 | AI and MSK Radiology: What is its Role? <i>Michael Recht, MD</i> |
| 10:45 - 11:00 | New Pulse Sequences in MSK MR: What, When, and Why? <i>Garry Gold, MD</i> |
| 11:00 - 11:15 | MSK MR Imaging: Have We Gone Overboard with Resolution and Image Quality at the Expense of Cost and Speed? <i>Naveen Subhas, MD</i> |
| 11:15 - 11:30 | 3D Printing and vr/ar: Do They Have a Role in MSK Imaging? <i>Benjamin Howe, MD</i> |
| 11:30 - 11:45 | Resurgence of MSK CT <i>Kambiz Motamedi, MD</i> |
| 11:45 - 12:00 | Will Metal Artifact Reduction, Low Dose and Dual Energy Lead to a Resurgence of MSK CT Imaging? <i>Hugue Ouellette, MD</i> |
| 12:00 - 13:30 | LUNCH |
| 13:30 - 15:00 | Imaging Sports Injury of the Elbow Moderators: <i>Lynne Steinbach, MD, Simon Ostlere, FRCR</i> |
| 13:30 - 13:50 | Mechanics and Injury of the Throwers Elbow <i>Mark Anderson, MD</i> |
| 13:50 - 14:10 | Biceps and Triceps, Anatomy and Pathology, Does Knowing the Anatomy Matter? <i>David Fessel, MD</i> |
| 14:10 - 14:30 | Elbow Ligament Anatomy, Injury Patterns and Lesion Visualization <i>Lynne Steinbach, MD</i> |
| 14:30 - 14:45 | Epicondylitis, Imaging Guided Diagnosis and Treatment <i>Philip O'Connor, MD</i> |
| 14:45 - 15:00 | Sports Injury of the Pediatric Elbow <i>Kathryn Stevens, MD, BS (hons)</i> |
| 15:00 - 15:30 | BREAK |
| 15:30 - 17:00 | Wrist & Hand Sports Injuries: State of the Art Imaging Moderators: <i>Hiroshi Yoshioka, MD, PhD, Jean-Denis Laredo, MD</i> |
| 15:30 - 15:45 | MRI: State of the Art Diagnosis of Sports Injuries <i>Michael Tuite, MD</i> |
| 15:45 - 16:00 | Ultrasound in Hand and Wrist Sports Diagnosis: Advantages, Limitations and Intervention <i>James Teh, MBBS, MRCP, FRCR</i> |
| 16:00 - 16:15 | Post-op Hand and Wrist MRI in Sports <i>Robert Campbell, MD</i> |
| 16:15 - 16:30 | Sports Specific: Wrist Golf Injuries <i>Bruce Forster, MD, MSc, FRCPC</i> |
| 16:30 - 16:45 | Sports Specific: Hand and Wrist Climbing Injuries <i>Andrea Rosskopf, MD</i> |
| 16:45 - 17:00 | Sports Specific: Hand and Wrist Tennis Injuries <i>Jenny Bencardino, MD</i> |

MUSCULOSKELETAL DISEASE - POTSDAM III

| | |
|---------------|-------------------------------------------------------------------------------------------------------------------------|
| 10:00 - 10:30 | BREAK |
| 10:30 - 12:00 | MSK Intervention Moderators: <i>Nicolas Amoretti, MD, Antonio Barile, MD</i> |
| 10:30 - 10:45 | PRP: What is it Good For? <i>Jon Jacobson, MD</i> |
| 10:45 - 11:00 | Stem Cells: Ready for Prime Time? <i>Stacy Smith, MD</i> |
| 11:00 - 11:15 | Can We Treat the Joint? <i>Marnix Van Holsbeeck, MD</i> |
| 11:15 - 11:25 | US Guided Percutaneous Treatment for Trigger Finger and Carpal Tunnel Syndrome <i>David Petrover, MD</i> |
| 11:25 - 11:35 | Joint and Soft Tissue Injections: US vs Fluoroscopic Guidance <i>Georgina Allen, FRCR, MScSEM</i> |
| 11:35 - 11:45 | Spine Procedures: CT vs. Flouro <i>Luca Sconfienza, MD, PhD</i> |
| 11:45 - 12:00 | Palliative Cementoplasty <i>Peter Munk, MDCM, FRCPC, FSIR</i> |
| 12:00 - 13:30 | LUNCH |
| 13:30 - 15:00 | MSK Imaging Dilemmas: Evidence-Based Recommendations Moderators: <i>Laura Bancroft, MD, FACR, Klaus Bohndorf, MD</i> |
| 13:30 - 13:45 | MSK Interventions for Tissue Healing: What Should We Be Injecting and When? <i>Kenneth Lee, MD</i> |
| 13:45 - 14:00 | Subspecialty MSK Teleradiology: Who Does it Help and Hurt? <i>Andrew Sonin, MD, FACR</i> |
| 14:00 - 14:15 | Early Rheumatoid Arthritis: When to Use MR or US <i>Andrea Klauser, MD</i> |
| 14:15 - 14:30 | Screening for Osteoporosis: Who to Examine and How? <i>Wilfred Peh, MD</i> |
| 14:30 - 14:45 | Follow-up After Treatment of Soft Tissue Sarcomas: How and How Often? <i>Marc-André Weber, MD, MSc</i> |
| 14:45 - 15:00 | Suspected Diabetic Foot Infections: What Imaging Affects Management? <i>Mark Schweitzer, MD</i> |
| 15:00 - 15:30 | BREAK |
| 15:30 - 17:00 | Metabolic and Systemic - (SAM) Moderators: <i>Anastasia Fotiadou, MD, PhD, Alberto Bazzocchi, MD, PhD</i> |
| 15:30 - 15:45 | Osteoporosis: Pearls and Pitfalls <i>Giuseppe Guglielmi, MD</i> |
| 15:45 - 16:00 | Sarcopenia: Past, Present, and Future <i>Robert Boutin, MD</i> |
| 16:00 - 16:15 | Adiposity: Musculoskeletal Implications <i>Miriam Bredella, MD</i> |
| 16:15 - 16:30 | Renal Disease of Bone <i>Leon Lenchik, MD</i> |
| 16:30 - 16:45 | Drug Induced Musculoskeletal Disorders <i>Michael Richardson, MD</i> |
| 16:45 - 17:00 | Atypical Infections <i>Johnny Monu, MB, BS, MS</i> |

WELCOME RECEPTION - POTSDAM II
18:30 - 20:30

MUSCULOSKELETAL IMAGING COURSE

DAY 2

THURSDAY, SEPTEMBER 27, 2018

SPORTS MEDICINE IMAGING - POTSDAM I

8:00 - 10:00 **Shoulder: ISS Meets DGMSR**
Moderators: *Andreas Heuck, MD, Klaus Bohndorf, MD*

- 8:00 - 8:15 Rotator Cuff: Current Concepts in Anatomy and Classification *Simone Waldt, MD*
- 8:15 - 8:30 Biceps Pulley and Rotator Interval *Rainer Schmitt, MD, PhD*
- 8:30 - 8:45 External and Internal Impingement Syndromes *Andreas Heuck, MD*
- 8:45 - 9:00 Shoulder Instability *Karl-Friedrich Kreitner, MD*
- 9:00 - 9:15 Calcific Tendinitis *Christian Glaser, MD*
- 9:15 - 9:30 Pectoralis, Latissimus and Teres Major *Marco Zanetti, MD*
- 9:30 - 9:45 Sick Scapula Syndrome, Scapular Impingement and Periscapular Bursitis *Christoph Schaeffeler, MD*
- 9:45 - 10:00 Post-Operative Shoulder *Reto Sutter, MD*

10:00 - 10:30 BREAK

10:30 - 12:00 **Trauma/Stress Injuries (ARS)**
Moderators: *Howard Galloway, FRANZCR, Michael Zlatkin, MD*

- 10:30 - 10:45 Upper Extremity Stress Injuries *Lionel Pesquer, MD*
- 10:45 - 11:00 Axial Skeleton Stress Injuries *Radhesh Lalam, MBBS, MRCS, FRCR*
- 11:00 - 11:15 Sacral Stress Fractures *Mary Hochman, MD*
- 11:15 - 11:30 Hip and Knee Stress Injuries How Did I Break My Hip Running? *Tudor Hughes, FRCR*
- 11:30 - 11:45 Tibia Stress Injuries in Athletes and Military Recruits *Nogah Shabshin, MD, MBA, BSc*
- 11:45 - 12:00 Ankle and Foot How Did I Break My Foot Sightseeing in Berlin? *Daniel M. Walz, MD*

12:00 - 13:30 LUNCH

13:30 - 15:00 **Muscle Injury, Edema and Beyond**
Moderators: *Atul Taneja, MD, PhD, Robert Boutin, MD*

- 13:30 - 13:45 Patterns of Muscle Abnormalities on MR Imaging *Robert Boutin, MD*
- 13:45 - 14:00 Imaging of Muscle Trauma: Role of MR and US *Michel Crema, MD*
- 14:00 - 14:15 Muscle Injuries of the Hip and Thigh *Marc-André Weber, MD, MSc*
- 14:15 - 14:30 Grading of Muscle Injury: Current Concepts *Steven James, MB, ChB, FRCR*
- 14:30 - 14:45 Skeletal Muscle Imaging in Children *Hee Kyung Kim, MD*
- 14:45 - 15:00 Novel Imaging Techniques for Assessment of Muscle *Jim Wu, MD*

15:00 - 15:30 BREAK

15:30 - 17:00 **Core Curriculum: Sports Injuries in the Pelvis & Trunk**
Moderators: *David Rubin, MD, Antoine Moraux, MD*

- 15:30 - 15:45 Groin and Trunk Muscle Injuries: Anatomy and Imaging Approach *Eugene McNally, MD*
- 15:45 - 16:00 Acute Athletic Groin Injuries: Flexors and Adductors *James Linklater, MBBS*
- 16:00 - 16:15 Lateral Pelvic and IT Band Injuries *Miriam Bredella, MD*
- 16:15 - 16:30 Pelvic Apophyseal Injuries *Julia Crim, MD*
- 16:30 - 16:45 Nerve Blocks & Injections for Pelvic Sports Injuries *Jan Fritz, MD*
- 16:45 - 17:00 Thoracic & Abdominal Wall Muscle Injuries Outside the Groin *Lawrence White, MD*

MUSCULOSKELETAL DISEASE - POTSDAM III

8:00 - 10:00 **Arthritis for Residency and Beyond**
Moderators: *Anne Jurik, DMSc, Neils Egund, MD, DMSc*

- 8:00 - 8:15 Hands and Feet Pitfalls for Diagnosis *Anne Cotten, MD*
- 8:15 - 8:30 What Crystals Do and What They Look Like *George Hermann, MD*
- 8:30 - 8:45 What Does MRI Tell Us About the Pathophysiology of Rheumatoid Arthritis *Monique Reijnierse, MD, PhD*
- 8:45 - 9:00 What Does MRI Tell Us About the Pathophysiology of Osteoarthritis *Ali Guermazi, MD, PhD*
- 9:00 - 9:15 Synovial Masses Presenting as Monoarthritis *Iris-Melanie Noebauer-Huhmann, MD*
- 9:15 - 9:30 CRMO, SAPHO and SCCH: Unravelling the Rheumatological Alphabet Soup *Robert Lambert, MB, FRCPC*
- 9:30 - 9:45 MRI of the Axial Spine: When is it Spondyloarthritis and When is it Not? *Winston Rennie, MB, MSc(SEM), FRCR*
- 9:45 - 10:00 Sacroiliac Joint: Degenerative Versus Inflammatory Arthritis *Jean-Denis Laredo, MD*

10:00 - 10:30 BREAK

10:30 - 12:00 **Spine Imaging (SAM)**
Moderators: *David Wilson, FRCR, FRCR, E. Remide Arkun, MD*

- 10:30 - 10:45 CT Spine Imaging Pitfalls *Tudor Hughes, FRCR*
- 10:45 - 11:00 MR Spine Imaging Pitfalls *Marcelo De Abreu, MD*
- 11:00 - 11:15 Imaging of Spinal Trauma *D. Lee Bennett, MD, MA, MBA*
- 11:15 - 11:30 Spine Infection *Suphaneewan Jaovisidha, MD*
- 11:30 - 11:45 Osteoporotic Fractures *James Griffith, MB, BCh, BAO, MD*
- 11:45 - 12:00 Degenerative Disk Disease *Prudencia Tyrrell, MD*

12:00 - 13:30 LUNCH

13:30 - 15:00 **Rapid Fire ST Tumors (ARS)**
Moderators: *Hassan Douis MD, MRCP, FRCR, Frederic LeCouvret, MD*

- 13:30 - 13:40 What's New from the WHO Classification in Soft Tissue Tumors *Julie Fanburg-Smith, MD*
- 13:40 - 13:50 High Water Content Masses: When Do I Need to Worry? *Mark D. Murphey, MD*
- 13:50 - 14:00 Benign versus Malignant Peripheral Nerve Sheath Tumors: Radiologic Rules of the Road *Laura Fayad, MD*
- 14:00 - 14:15 Lipoma vs. Well-Differentiated Liposarcoma: Imaging Distinction *Francesca D. Beaman, MD*
- 14:15 - 14:30 Surgical Implications of Lipoma vs. Well-Differentiated Liposarcoma: What are the Options? *Carol D. Morris, MD, MS*
- 14:30 - 14:40 Biopsy Technique: Does it Matter Where I Biopsy? *Jeffrey Peterson, MD*
- 14:40 - 14:50 Soft Tissue Tumor Local Recurrence: Tricks of the Trade *David M. Panicek, MD*
- 14:50 - 15:00 Imaging of Synovial Neoplasms *Hillary W. Garner, MD*

15:00 - 15:30 BREAK

15:30 - 17:00 **Rapid Fire Bone Tumors (ARS)**
Moderators: *Violeta Vasilevska Nikodinovska MD, PhD, MSc, Paul O'Donnell, MBBS, FRCR, FRCR*

- 15:30 - 15:40 What's New in the WHO Classification in Bone Tumors? *S. Fiona Bonar, MB, FRCPath, FRCPA*
- 15:40 - 15:50 Radiology Report for Bone Neoplasms: What's Important for Staging? *Leanne L. Seeger, MD, FACR*
- 15:50 - 16:00 Whole Body MRI for Tumor Imaging *Koenraad Verstraete, MD*
- 16:00 - 16:10 Enchondroma vs. Chondrosarcoma: Imaging Criteria *Hakan Ilaslan, MD*
- 16:10 - 16:20 Enchondroma vs. Chondrosarcoma: Surgical Perspective *Earl W. Brien, MD*
- 16:20 - 16:30 Update on Multiple Myeloma *Michael E. Mulligan, MD*
- 16:30 - 16:40 Imaging of Surface Bone Tumors *Daniel Vanel, MD*
- 16:40 - 16:50 Bone Tumor or Not That is the Dilemma *Rainer Erlemann, MD*
- 16:50 - 17:00 Vertebral Bone Marrow: Metastasis or Mimicker *Andrea Baur-Melnyk, MD*

MUSCULOSKELETAL IMAGING COURSE

DAY 3

FRIDAY, SEPTEMBER 28, 2018

SPORTS MEDICINE IMAGING- POTSDAM I

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 - 10:00 | Knee Moderators: <i>Ian Beggs, FRCPE, FRCR</i> <i>Andrea Roskopf, MD</i> |
| 8:00 - 8:15 | Bone/OCD <i>Klaus Bohndorf, MD</i> |
| 8:15 - 8:30 | Cruciate Ligaments <i>Nancy Major, MD</i> |
| 8:30 - 8:45 | Post-Op ACL <i>Philip Robinson, FRCR</i> |
| 8:45 - 9:00 | Menisci <i>Andrew Grainger, BM, BS, MRCP, FRCR</i> |
| 9:00 - 9:15 | Posterolateral Corner <i>William Palmer, MD</i> |
| 9:15 - 9:30 | Soft Tissue, Nerves, and Vascular Structures <i>John Crues, MD, MS</i> |
| 9:30 - 9:45 | Extensor Mechanism <i>David Rubin, MD</i> |
| 9:45 - 10:00 | Lesions About the Proximal Tibiofibular Joint <i>Josef Kramer, MD</i> |
| 10:00 - 10:30 | BREAK |
| 10:30 - 12:00 | Hip Moderators: <i>Suzanne Anderson, MD, PhD</i> <i>Hema Choudur, MBBS, FRCPC</i> |
| 10:30 - 10:45 | Hip Joint MRI Assessment: Pitfalls, Variation and Myths <i>Patrick Omoumi, MD, PhD</i> |
| 10:45 - 11:00 | Pediatric Hip Imaging <i>Filip Vanhoenacker, MD, PhD</i> |
| 11:00 - 11:15 | MRI of FAI: How to Assess and What to Report <i>Donna Blankenbaker, MD</i> |
| 11:15 - 11:30 | Hip Surgery: How Does Imaging Help? <i>Michael Dienst, MD</i> |
| 11:30 - 11:45 | Post-op Hip MRI: Differentiating Normal from Abnormal <i>Tobias Dietrich, MD</i> |
| 11:45 - 12:00 | Hip Intervention: Its Role in Diagnosis and Treatment <i>Luca Sconfienza, MD</i> |
| 12:00 - 13:30 | LUNCH |
| 13:30 - 15:00 | Foot/Ankle: An MRI Alone Will Make the Diagnosis - Or Will It? Moderators: <i>Joseph Craig, MB, ChB, Charles Bush, MD</i> |
| 13:30 - 13:45 | Lateral Ankle Ligament Anatomy and Injuries <i>Maryam Shahabpour, MD</i> |
| 13:45 - 14:00 | Medial Sided Ankle Pain: Deltoid Ligament and Beyond <i>Julia Crim, MD</i> |
| 14:00 - 14:15 | Midfoot Sprains - More than Just the Lisfranc Ligament <i>Carolyn Sofka, MD</i> |
| 14:15 - 14:30 | Making a Break For It: Tendon Subluxation/Dislocation <i>Ramy Mansour, MD</i> |
| 14:30 - 14:50 | Turf Toe - Not Just for American Football Players <i>Hilary Umans, MD</i> |
| 14:50 - 15:00 | Ultrasound of Acute Foot and Ankle Sports Injuries <i>Mihra Taljanovic, MD, PhD</i> |

MUSCULOSKELETAL DISEASE - POTSDAM III

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 - 10:00 | Imaging Orthopedic Hardware Moderators: <i>Thomas LeCorroller, MD, PhD</i> <i>Theodore Miller, MD</i> |
| 8:00 - 8:15 | MR Imaging of Metal: How To Do It <i>Christian Pfirrmann, MD, MBA</i> |
| 8:15 - 8:30 | CT Scanning of Metal: How To Do It <i>Kenneth Buckwalter, MD, MS, MBA</i> |
| 8:30 - 9:00 | Multimodality Imaging of Hip and Knee Replacements <i>Theodore Miller, MD, FACR</i> |
| 9:00 - 9:20 | Imaging of Shoulder Replacements <i>Alice, Ha, MD, MS</i> |
| 9:20 - 9:40 | Imaging of Ankle Replacements <i>Laura Bancroft, MD, FACR</i> |
| 9:40 - 10:00 | Plates and Screws - What Do They Do? <i>Marcelo Bordalo-Rodrigues, MD, PhD</i> |
| 10:00 - 10:30 | BREAK |
| 10:30 - 12:00 | Imaging Peripheral Nerves with Detailed Anatomy and Lesion Characterization Moderators: <i>Carlo Martinoli, MD</i> <i>Avneesh Chhabra, MD</i> |
| 10:30 - 10:55 | Ultrasound of the Brachial Plexus, Pathology and Technique Made Easy <i>Carlo Martinoli, MD</i> |
| 10:55 - 11:05 | MR Neurography: Current Perspectives and Literature Review <i>Gustav Andreisek, MD, MBA</i> |
| 11:05 - 11:20 | Peripheral Nerve Anatomy and Lesions in the Ankle and Foot <i>Jean Luc Drape, MD</i> |
| 11:20 - 11:30 | MR Neurography of Extra-Spinal Sciatica <i>John Carrino, MD, MPH</i> |
| 11:30 - 11:45 | Imaging Nerve Entrapment Syndromes of the Elbow and Forearm <i>Catherine Petchprapa, MD</i> |
| 11:45 - 12:00 | Peripheral Nerve Lesions Around the Shoulder, How to Make the Imaging Diagnosis? <i>Catherine Petchprapa, MD</i> |
| 12:00 - 13:30 | LUNCH |
| 13:30 - 15:00 | Cartilage/Bone (SAM) Moderators: <i>Garry Gold, MD, Jung-Ah Choi, MD</i> |
| 13:30 - 13:45 | Normal Cartilage Structure <i>Richard Kijowski, MD</i> |
| 13:45 - 13:55 | Fast Imaging - 5 Minute Knee MRI <i>Soterios Gyftopoulos, MD</i> |
| 13:55 - 14:05 | Isotropic 3D T2 Mapping <i>Patrick Omoumi, MD, PhD</i> |
| 14:05 - 14:15 | Identifying Hidden Zones of the Far Posterior Cartilage of the Femoral Condyles <i>John Crues, MD, MS</i> |
| 14:15 - 14:30 | Cartilage Repair - Microfracture <i>Thomas Link, MD, PhD</i> |
| 14:30 - 14:45 | Cartilage Repair - ACI <i>Carl Winalski, MD</i> |
| 14:45 - 15:00 | Lesions at the Osteochondral Junction <i>Christine Chung, MD</i> |

COMBINED SESSION - POTSDAM I/III

FILM QUIZ PANEL 15:30 - 17:00



TUESDAY, SEPTEMBER 25, 2018

FOR COMPLETE ULTRASOUND AGENDA
internationalskeletalsociety.com

COMBINED GROUP

ULTRASOUND LECTURES AND DEMONSTRATIONS WILL INCLUDE:

- ▶ Normal Muscle, Nerve and Fat
- ▶ Brachial Plexus
- ▶ Upper Extremity Nerves
- ▶ Lower Extremity Nerves

INDIVIDUAL GROUPS

ULTRASOUND DEMONSTRATIONS WILL INCLUDE:

- ▶ Muscle Injury
- ▶ Muscle Masses
- ▶ Muscle Inflammation
- ▶ Guided Treatment of Muscle Injury
- ▶ Peripheral Nerve Abnormalities and Entrapments
- ▶ Guided Treatment of Peripheral Nerve Abnormalities
- ▶ Fat Abnormalities (e.g. lipoma, fat necrosis, cellulitis)

COURSE DIRECTORS

Dr. Julie C. Fanburg-Smith Orthopedic and Soft Tissue Pathology
Dr. Mark D. Murphey Musculoskeletal Radiology **Dr. Franklin H. Sim** Orthopedic Oncologic Surgery

FOR COMPLETE PROGRAM DETAILS:
internationalskeletalsociety.com

ONE-DAY PATHOLOGY ORTHOPEDIC COURSE

WHAT IS NEW IN BONE?

Radiology, Pathology and Surgical Treatment: An Updated Sunday Interdisciplinary Bone Course
 Including German-Speaking Presenters

Sunday, September 23, 2018

Time: 08:30 - 15:30 | Location: Charlottenburg

REGISTRATION/INFORMATION DESK HOURS

LOCATION: POTSDAM FOYER

| | |
|-------------------------------|---------------|
| Tuesday, September 25, 2018 | 07:00 – 17:00 |
| Wednesday, September 26, 2018 | 07:00 – 17:00 |
| Thursday, September 27, 2018 | 07:00 – 17:00 |
| Friday, September 28, 2018 | 07:00 – 17:00 |

EXHIBIT HALL HOURS

LOCATION: POTSDAM II

| | |
|-------------------------------|---------------|
| Wednesday, September 26, 2018 | 07:00 – 16:00 |
| Thursday, September 27, 2018 | 07:00 – 16:00 |
| Friday, September 28, 2018 | 07:00 – 16:00 |

EVENING EVENTS

WELCOME RECEPTION
WEDNESDAY, SEPTEMBER 26, 2018

TIME: 18:30 - 20:30

LOCATION: POTSDAM II

ATTIRE: Business Casual

COST: Two tickets included in registration fee. Additional guest tickets are \$50 each.*This year's Welcome Reception will be held in Potsdam II inside of the InterContinental Berlin. Visit with exhibitors and colleagues while sampling an array of delicious foods.***Times and locations are subject to change*HOTEL, TRAVEL & TRANSPORTATION
& REGISTRATION INFORMATION

HOTEL INFORMATION

InterContinental Berlin
 Budapeststrasse 2
 Berlin, 10787, Germany
 Main: +49 30 26020 | Fax: +49 30 2602 2600
https://www.ihg.com/intercontinental/hotels/us/en/berlin/berha/hoteldetail?cm_mmc=GoogleMaps_-_IC_-_DE_-_BERHA

RESERVATIONS: +49 30 26020 or

<https://book.passkey.com/gt/216143399?gtid=6cfad005751a0ed4aa16813f994ff8d2>

ROOM RATE

ISS has negotiated a discounted rate of 209 Euros per night at the InterContinental Berlin.

HOTEL DEADLINE

The cut-off-date for online bookings is August 9, 2018. ISS encourages you to make your reservation early, as the hotel and discount block may sellout before this date. After this date, guests can continue to reserve rooms via phone or email. Reservations will be accepted based on availability.

RESERVATIONS

Attendees are responsible for making their reservations by calling the hotel at +49 30 26020. **Please reference the ISS 2018 Meeting to receive the discounted rate.** Reservations can also be made online at <https://book.passkey.com/gt/216143399?gtid=6cfad005751a0ed4aa16813f994ff8d2>

HOTEL DEPOSIT AND CANCELLATION POLICY

Rooms may be cancelled by individual guests without a charge until 14 days prior to arrival. For reservations of more than 5 rooms per night within the block, the InterContinental reserves the right to adjust the cancellation terms.

PARKING

Car parking is available

- Self-Parking Fee: 26 EUR
- Valet parking is available
- Valet Parking Fee: 26 EUR
- Underground parking 26.00 EUR daily fee – 126 spaces.
- Valet parking is also available.

DIRECTIONS FROM THE AIRPORT

TEGEL AIRPORT (TXL) : Take Bus X9 to "Zoologischer Garten". Change to Bus 200, Directions from Airport "Michelangelostrasse" to "Budapester Strasse". The bus stops in front of the hotel. Or take a 10 minute walk / 500m from "Zoologischer Garten" to the hotel.

SCHOENEFELD (SXF) : Take the RE7 or RB14 train to "Zoologischer Garten". Change to Bus 200, direction "Michelangelostrasse" to "Budapester Strasse". The bus stops in front of the hotel. Or take a 10 minute walk / 500m from "Zoologischer Garten" to the hotel. Ticket zone is ABC.

REGISTRATION INFORMATION

Registration Fee Includes:

- Entrance to Refresher Course
- Breakfasts
- Two tickets to the Welcome Reception
- Program Materials

ULTRASOUND COURSE

Registration for the Ultrasound Course on Tuesday, September 25, 2018, is limited and will be allocated on a first-come, first-served basis to the first 100 participants upon payment of the registration fee. Please be sure to register on the meeting registration form if you wish to attend.

EARLY REGISTRATION DEADLINE

Meeting registration forms must be received by the ISS Executive Office by 08/4/2018 to receive the discounted early registration rate. All forms received after this deadline will be assessed the regular registration fee.

REGISTRATION CANCELLATION AND REFUND POLICY

Registration refund requests must be submitted in writing to the ISS Executive Office no later than **08/4/2018**. All refund requests will be subject to a \$100 processing fee. No refunds will be made after **08/4/2018**

SPECIAL NEEDS

For accommodations on the basis of disability or special dietary needs, please call +1 847-752-5355.

CONTACT THE ISS EXECUTIVE OFFICE BY:

Phone: +1 847-752-5355 | Fax: +1 847-960-3861

Email: info@internationalskeletalsociety.comWebsite: www.internationalskeletalsociety.com

The deadline for discounted early registration is 08/4/2018. After 08/4/2018, regular registration fees will apply to online and onsite registration. Registration Fees are subject to change. Rates are all USD. To lock in these rates, **REGISTER NOW!**

PLEASE SELECT THE CATEGORY THAT BEST DESCRIBES YOUR STATUS:

- | | | | |
|--------------------------------------------------|-----------------------------------------------------|------------------------------------------|--------------------------------|
| <input type="checkbox"/> Industry Employee | <input type="checkbox"/> Other Medical Professional | <input type="checkbox"/> Researcher | <input type="checkbox"/> Other |
| <input type="checkbox"/> Fellow | <input type="checkbox"/> Pathologist | <input type="checkbox"/> Resident | |
| <input type="checkbox"/> Full Time Administrator | <input type="checkbox"/> Physician | <input type="checkbox"/> Rheumatologist | |
| <input type="checkbox"/> Non Physician Provider | <input type="checkbox"/> Radiologist | <input type="checkbox"/> Student/Trainee | |

INDUSTRY REGISTRATION - Industry Employee whose company is already supporting ISS OR Industry Medical Science Liaison . ☐ \$820
(Proof of MSL Title may be required before confirmation of registration)

Industry Employee whose company is NOT already supporting ISS. ☐ \$1,250

Your submission will need to be approved prior to confirmation of your registration. Approval may be based on current Industry support. To find out if your company is currently supporting ISS, please contact Donna in the Registration Department at +1 847-752-5355 or by email at donna@veritasmeetings.com

HOW DID YOU LEARN ABOUT THIS CONFERENCE? (CHECK ALL THAT APPLY)

- | | | |
|------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| <input type="checkbox"/> Word of Mouth - Colleague | <input type="checkbox"/> Skeletal Radiology Journal | <input type="checkbox"/> Calendar - Monthly Listing |
| <input type="checkbox"/> ISS Website | <input type="checkbox"/> Advertisement in Professional Journal | <input type="checkbox"/> Registration Brochure Mailer |
| <input type="checkbox"/> Email From ISS | <input type="checkbox"/> Facebook Advertisement | <input type="checkbox"/> Flyer-Postcard at another meeting |
| <input type="checkbox"/> Email From Other Societies (DGMSR, SSR, etc.) | <input type="checkbox"/> Website Advertisement | <input type="checkbox"/> Promotional Slides at another meeting |

PLEASE PRINT CLEARLY

Title: ☐ Dr. ☐ Prof. ☐ Mr. ☐ Mrs. ☐ Ms. ☐ Other: _____

First Name (Forename/Given Name): _____

Last Name (Surname/Family Name): _____

Academic Degree(s): _____

Badge First Name: _____

Address: _____ ☐ Home ☐ Office

City: _____ State/Province: _____ Postal Zip Code: _____

Country: _____

Phone: _____ Fax: _____

Email: _____

MEETING REGISTRATION*

REGISTRATION CATEGORIES

EARLY DISCOUNTED
(through 08/4/2018)

REGULAR FEES
(after 08/4/2018)

TOTAL COST

| | | | |
|----------------------------------------------------------------------------------|-------------------------------|-------|-----------|
| <input type="checkbox"/> ISS Member (in good standing for 2018) and DGMSR Member | PLEASE REGISTER ONLINE | | |
| <input type="checkbox"/> Non-Member Practicing Physician | \$820 | \$920 | =\$ _____ |
| <input type="checkbox"/> Non-Physician Provider (Nurse, PA, Technologist) | \$620 | \$720 | =\$ _____ |
| <input type="checkbox"/> Resident Expected Graduation Year | \$620 | \$720 | =\$ _____ |
| <input type="checkbox"/> Fellow Expected Graduation Year | \$620 | \$720 | =\$ _____ |
| <input type="checkbox"/> Student Expected Graduation Year | \$620 | \$720 | =\$ _____ |

ULTRASOUND COURSE REGISTRATION

☐ Ultrasound Course - September 25, 2018 (Early Discount BEFORE 08/4/2018) \$250 \$325 = \$ _____

(Pre-registration is required for this course. There is a 100 person maximum, so we encourage you to register early.)

PATHOLOGY/ORTHOPEDIC

☐ One-Day Pathology Orthopedic Course \$100 =\$ _____

☐ Optional opportunity to observe the ISS Members Meeting
if registering for the Pathology/Orthopedic Course
(optional opportunity for non members) \$50 =\$ _____

SELF-ASSESSMENT MODULES REGISTRATION \$25 =\$ _____

(PLEASE NOTE: *Self-Assessment Module fees are NOT included with registration)

ADDITIONAL WELCOME RECEPTION TICKETS FOR NON-REGISTERED GUESTS:

***Two tickets** to the Welcome Reception are included with your registration.

Please only purchase additional tickets if you are planning to bring additional guests to this event.

Welcome Reception - Wednesday September 26, 2018 # of tickets = _____ at \$50 per ticket =\$ _____

Total Registration Fee =\$ _____

Total Special Events Tickets =\$ _____

GRAND TOTAL =\$ _____

PAYMENT INFORMATION

The ISS requires full payment for registration fees and optional activities by check or credit card.

☐ Check* (payable to the ISS) ☐ Visa ☐ MasterCard ☐ American Express ☐ Discover

*All fees must be paid in US dollars. Checks must be drawn in US dollars, on a US bank, and made payable to the International Skeletal Society (ISS) (Tax ID #23-7366930). Be sure to print your name on the check.

Credit Card #: _____ Expiration Date: _____ CVV#: _____

Name on Credit Card _____

Billing Address: _____

Signature: _____

The issuer of the card identified on this item is authorized to pay the amount shown as TOTAL upon proper presentation. I promise to pay such TOTAL (together with any other charges due thereon) subject to and in accordance with the agreement governing the use of such card.

PHONE REGISTRATIONS CANNOT BE ACCEPTED.

Acceptable registration methods include

- By Fax: +1 847-960-3861
- By Mail: International Skeletal Society
1061 East Main Street, Suite 300
East Dundee, IL 60118
- Online: www.internationalskeletalsociety.com

If paying by check, please forward payment to:

International Skeletal Society
Attn: Registration
1061 East Main Street, Suite 300
East Dundee, IL 60118

***Wire Transfers**

Please email info@internationalskeletalsociety.com
for detailed wire transfer information

REGISTRATION CANCELLATION & REFUND POLICY

Registration refund requests must be submitted in writing to the ISS Executive Office by 08/4/2018. All refund requests will be subject to a \$100 processing fee. No refunds will be made after 08/4/2018.

SAVE THE DATE

46th ANNUAL MEETING

MUSCULOSKELETAL IMAGING COURSE

SEPTEMBER 11-13, 2019



JW Marriott Vancouver | Vancouver, Canada | www.internationalskeletalsociety.com