



BARE BONES

BULLETIN OF THE INTERNATIONAL SKELETAL SOCIETY



REGISTER TODAY! 2018 BERLIN, GERMANY

PATHOLOGY REVIEW: SEPTEMBER 22 - 23 • PATHOLOGY ORTHOPAEDIC COURSE: SEPTEMBER 23 • MEMBERS MEETING: SEPTEMBER 24 - 25 • ULTRASOUND COURSE: SEPTEMBER 25 • REFRESHER COURSE: SEPTEMBER 26 - 28

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Dear ISS Members,

I'm very excited to share details of our September meeting in Berlin after a visit in April finalizing hotel arrangements and social events. Our 45th Annual Meeting will be held at the InterContinental Hotel, minutes from the museums of the Kulturforum, the foodhalls of KaDeWe, the shopping and rooftop terrace of Bikini Berlin, the ruins of Kaiser Wilhelm Memorial Church, and the landscaped paths of the Berlin Zoo. The hotel adjoins the beautiful Tiergarten, one of the largest urban parks in Germany, perfect for running, strolling and sightseeing. The hotel meeting rooms and lecture halls are modern and comfortable. They are centrally located on the ground floor of the InterContinental, perfectly situated near the exceptional breakfast buffet (included in the room rate), as well as the Marlene Dietrich Bar, for morning and evening gatherings. Thank you to Sue O'Sullivan for her strategic planning and negotiations.

Our Members Meeting will be educationally fulfilling and intense, with many opportunities for networking and collegiality. The day-long Interdisciplinary Bone Course is scheduled for Sunday. The Scientific Session is planned for Monday, the Ultrasound Course for Tuesday. Case presentations will highlight the schedule on Monday and Tuesday. Thank you to the ISS members who submitted cases, and to the Members Meeting Program Committee, chaired by Julie Fanburg-Smith, co-Chaired by Mark Murphey, for their hard work in early March at the Hershey Medical Center reviewing the 136 case submissions.

On Monday, the Founders Medal will go to Lynne Steinbach. Suzanne Anderson, Miriam Bredella and Christine Chung will commemorate her years with the ISS and deliver the Founders Lecture. The ISS Awards Committee, chaired by Javier Beltran, selected Mark Murphey to receive the Medal of the ISS and Reto Sutter to receive the Presidents' Medal. Both of these Medals will be conferred during the Members Reception on Sunday. Please plan on attending this important event, which will take place in a dramatic space on the top floor of the InterContinental with sweeping views of Berlin.

The Members Meeting will culminate with the Members Dinner on Tuesday evening at the German Historical Museum which is located on the historic Unter den Linden Boulevard just down from the Brandenburg Gate. A cocktail reception will take place in a striking modern addition designed by I.M. Pei after which we will enjoy dinner, music and dancing in the magnificent courtyard of the Baroque Zeughaus.

Registration for the MSK Update Course opened several weeks ago. Thanks to the critical and substantial efforts of Andreas Heuck, Thomas Link and Karl-Friedrich Kreitner, our Local Organizing Committee, we are on pace for a record number of European registrants. In addition, to support musculoskeletal sub-specialization in Germany and promote our meeting, the ISS has successfully collaborated with the German Society of Musculoskeletal Radiology (DGMSR). Thank you to Laura Bancroft and her Program Committee for creating a cutting edge and comprehensive MSK imaging refresher course.

In the Winter Special Edition of Bares Bones, my message focused on last year's outstanding New York City meeting and the dynamic participation by ISS members. If you would like to revisit this previous edition, in which Juerg Hodler presented the ISS strategic plan, please use this [\[link\]](#).

It has been a pleasure and an honor to serve as your President. I hope you will join us for our 45th Annual Meeting. I look forward to seeing you in Berlin.

Bill Palmer

William Palmer, MD
President, ISS

LEADERSHIP

PROPOSED AT-LARGE EXECUTIVE COMMITTEE MEMBERS

There are 3 members who have been nominated for at-large positions on the ISS Executive Committee. These individuals fulfill all stated requirements and we are pleased to introduce them to you at this time.

- Miriam Bredella, MD
- Andrew Horvai MD, PhD
- Reto Sutter, MD

These individuals will be up for election at the 2018 Berlin Business Meeting and their first meeting participation will be in Vancouver 2019.

PROPOSED EXECUTIVE COMMITTEE NOMINATIONS FOR 2018-2019 TERM YEAR

- Lawrence White, MD - President
- Michael Recht, MD – President-Elect
- Juerg Hodler MD, MBA -- Secretary
- Michael Tuite, MD -- Treasurer



STRATEGIC PLAN 2025

The ISS Executive Committee would like your input!! Results from the Strategic Plan 2025 survey are now available. If you have an interest in directing the intentions and direction of the organization over the course of the next 5 years, your input is solicited and you are invited to participate in the "OPEN" ISS Liaison Committee meeting to be held on **Tuesday, September 25th at 2:00 pm (Berlin)** during the 2018 ISS Imaging Course in order to discuss appropriate next steps.

ISS 2018 QUESTIONNAIRE / RELEVANT POINTS

The questionnaire sent out to the membership in 2017 was returned by 255 members, indicating a high interest of our members in society matters.

Short summary of the results

Role of the ISS in 2025:

- Opinion leader, with Skeletal Radiology, present worldwide.
- Less pronounced: Interdisciplinary society which attracts the young.

Most accepted action points:

- Most supported: The ISS should produce white papers and guidelines. The annual meeting remains the most important activity.

Members should actively contribute to the journal.

- Intermediate support: Web-based teaching, scientific session, umbrella-organization
- Less support: For associate memberships, relaxed membership criteria, separate events for radiology/pathology

The open questions/comments mostly supported the grading questions above, with a few additional comments such as the need to emphasize the international character of the society, attract and support young members, focus on relevant MSK topics, support the outreach initiative, and consider hands-on sessions.

MISSION STATEMENT

After much consideration and input from Membership, the ISS Executive Committee would like to propose the following statement as a component part of the ISS mission.

Proposed Mission Statement:

The ISS provides leadership in the practice, science and teaching of musculoskeletal medicine through an interdisciplinary and international membership recognized for its achievement in this field.

This statement has been added to the bylaws for membership approval at the 2018 Business Meeting.

MEMBERS MEETING

MEMBERS RECEPTION & MEMBERS DINNER

Sunday, September 23, 2018

The ISS Members Reception will be held at Hugos Restaurant Berlin, InterContinental Hotel at 18:00.

Tuesday, September 25, 2018

The ISS Members Dinner will be held at the German Historical Museum, beginning at 19:00.

The Medal of the ISS and the President's Medal will be awarded with citations during the Members Reception (Sunday) at the Berlin Meeting

FOUR NEW PARTS TO THE ISS MEMBERS MEETING INCLUDING NEW ONE-DAY BONE COURSE ON SUNDAY:

NEW MICROSCOPIC UNKNOWN CASE DIAGNOSIS - PATHOLOGY SLIDE REVIEW WITH RADIOLOGIC IMAGES

Saturday September 22 and Sunday September 23, 2018:

This two day microscopic slide review will be attended by radiologists and pathologists to support viewers on Saturday 10:00-16:00 and Sunday 9:00-17:00.

The slides will be put on the web before the meeting and available for review on Saturday and Sunday at the meeting by microscope to discuss with radiologists and pathologists at the microscope sessions.

NEW ISS BONE COURSE FOR RADIOLOGISTS, PATHOLOGISTS, SURGEONS AND ONCOLOGISTS: WHAT IS NEW IN BONE?

ISS on Sunday September 23, 2018, 7:30 registration - 16:30

Top interdisciplinary international speakers in all areas of Bone, MSK! Including German Perspective, International Perspective, and German-Speakers!

Please register to join us for the One-Day Bone Course at the ISS!

MEMBERS MEETING MODERATED CASE PRESENTATIONS

Monday, September 24 8:00-17:00 and Tuesday, September 25 7:30-17:30

Interdisciplinary MEMBERS MEETING MODERATED CASE PRESENTATIONS. These 50 plus cases are selected from a large number similar to Paris and NYC, other strong and competitive years for case submissions. Each case is presented by radiologist, pathologist, and/or surgeon, clinician for ten minutes, followed by a five minute discussion on the entity. These are unknowns.

NEW MEMBERS MEETING MODERATED CASE PRESENTATIONS

Monday, September 24 17:00-18:00

These are 5 computer stations with five ten-minute presentations each, moderated with audience. These are presented as unknowns for radiologists, pathologists, surgeons, clinicians. Can you guess what is the diagnosis as it is presented? The answers will be given. The powerpoints will be on the web before the meeting.

SCIENTIFIC SESSION

This year we received 109 scientific submissions for the Scientific Sessions. The Special Scientific Session will occur on Monday September 24, 2018 from 13:30 - 17:30. Twenty abstracts were selected for a 10-minute oral presentation. A focus this year will be on artificial intelligence and machine learning. In addition, we will have the winning presentations from the Annual Meetings of the Society of Skeletal Radiology (SSR), the European Society of Musculoskeletal Radiology (ESSR) and the Asian Musculoskeletal Society (AMS). The Breakout Session will occur on Tuesday, September 25, 2018, from 12:00 - 12:30 and will feature ten 5-minute oral presentations. CME credits will be offered for both components of the Scientific Sessions. All abstracts will be published in Skeletal Radiology prior to the meeting.

REFRESHER COURSE

The International Skeletal Society Annual Meeting and Refresher Course will be held September 26-28 in Berlin. The Refresher Course Planning Committee has been busy organizing 3 days of up-to-date imaging lectures given by expert musculoskeletal radiologists throughout the world. This year will highlight "ISS Meets DGMSR: Shoulder Imaging," in which Andreas Heuck and past ISS President Klaus Bohndorf will moderate a focused session given by multiple leading German radiologists on shoulder imaging, including "Rotator Cuff: Current Concepts in Anatomy and Classification", "External and Internal Impingement Syndromes: and "Post-operative Shoulder". The Refresher Course will also include new sessions on "Hot Topics" and "MSK Imaging Dilemmas: Evidence-based Recommendations", which will provide expert advice and the most up-to-date evidence-based support for topics ranging from artificial intelligence, new MRI pulse sequences and 3D printing. In addition, our attendees will receive excellent tips from our international leaders on trauma, muscle, major joints, metabolic, peripheral nerve, tumor and postoperative musculoskeletal imaging. We also look forward to the Annual Film Panel Competition on Friday, which will be headed this year by Dr. Mark Murphey from the American Institute of Pathology.



MUSCULOSKELETAL IMAGING COURSE

7:00 - 8:00
7:00 - 17:00

BREAKFAST
REGISTRATION/INFORMATION DESK HOURS

7:00 - 16:00 EXHIBIT HALL HOURS

DAY 1

WEDNESDAY, SEPTEMBER 26, 2018

COMBINED SESSION

8:00 - 8:10	INTRODUCTION <i>Laura Bancroft, MD, FACR</i>	8:55 - 9:15	Pediatric Marrow Disorders <i>Nancy Chauvin, MD</i>
8:10 - 10:00	Opening Session: Bone Marrow Moderators: <i>Lawrence White, MD, Michael Tuite, MD</i>	9:15 - 9:35	Bone Marrow Changes in Arthritis, What Are They and Why Do They Matter? <i>Frank Roemer, MD</i>
8:10 - 8:35	Bone Marrow Changes Related to Injury: Anatomy, Pathophysiology, and Terminology <i>Donald Resnick, MD</i>	9:35 - 10:00	Bone Tumors with Prominent Marrow Edema: A Useful Sign in Differential Diagnosis <i>Mark Murphey, MD</i>
8:35 - 8:55	Bone Marrow Histopathology, for Correlation with Radiology <i>burg-Smith, MD</i>		

SPORTS MEDICINE IMAGING

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>Victor Cassar-Pullicino, 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 Roskopf, MD</i>
16:45 - 17:00	Sports Specific: Hand and Wrist Tennis Injuries <i>Jenny Bencardino, MD</i>

MUSCULOSKELETAL DISEASE

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
18:30 - 20:30

MUSCULOSKELETAL IMAGING COURSE

DAY 2

THURSDAY, SEPTEMBER 27, 2018

SPORTS MEDICINE IMAGING

- 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? *Mini N. Pathria, MD*
- 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, Mini N. Pathria, 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: 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

- 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 Reijnen, 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, FRCPC, 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 J. Kransdorf, 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, FRCPC, 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*

SPORTS MEDICINE IMAGING

8:00 - 10:00 **Knee**
 Moderators: *Ian Beggs, FRCPE, FRCR*
Andrea Roszkopf, MD

8:00 – 8:15 Bone/OCD *Klaus Bohndorf, MD*
 8:15 – 8:30 Cruciate Ligaments *Nancy Major, MD*
 8:30 – 8:45 Post-Op ACL *Philip Robinson, FRCR*
 8:45 – 9:00 Menisci *Andrew Grainger, BM, BS, MRCP, FRCR*
 9:00 – 9:15 Posterolateral Corner *William Palmer, MD*
 9:15 – 9:30 Soft Tissue, Nerves, and Vascular Structures
John Crues, MD, MS
 9:30 – 9:45 Extensor Mechanism *David Rubin, MD*
 9:45 – 10:00 Lesions About the Proximal Tibiofibular Joint
Josef Kramer, MD

10:00 - 10:30 BREAK

10:30 - 12:00 **Hip**
 Moderators: *Suzanne Anderson, MD, PhD*
Hema Choudur, MBBS, FRCPC

10:30 – 10:45 Hip Joint MRI Assessment: Pitfalls, Variation and Myths
Bruno Vande Berg, MD, PhD
 10:45 – 11:00 Pediatric Hip Imaging *Filip Vanhoenacker, MD, PhD*
 11:00 – 11:15 MRI of FAI: How to Assess and What to Report
Donna Blankenbaker, MD
 11:15 – 11:30 Hip Surgery: How Does Imaging Help?
Michael Dienst, MD
 11:30 – 11:45 Post-op Hip MRI: Differentiating Normal from Abnormal
Tobias Dietrich, MD
 11:45 – 12:00 Hip Intervention: Its Role in Diagnosis and Treatment
Luca Sconfienza, MD

12:00 - 13:30 LUNCH

13:30 - 15:00 **Foot/Ankle: An MRI Alone Will Make the Diagnosis - Or Will It?**
 Moderators: *Joseph Craig, MB, ChB, Charles Bush, MD*

13:30 – 13:45 Lateral Ankle Ligament Anatomy and Injuries
Maryam Shahabpour, MD
 13:45 – 14:00 Medial Sided Ankle Pain: Deltoid Ligament and Beyond
Julia Crim, MD
 14:00 – 14:15 Midfoot Sprains - More than Just the Lisfranc Ligament
Carolyn Sofka, MD
 14:15 – 14:30 Making a Break For It: Tendon Subluxation/Dislocation
Ramy Mansour, MD
 14:30 – 14:50 Turf Toe - Not Just for American Football Players
Hilary Umans, MD
 14:50 – 15:00 Ultrasound of Acute Foot and Ankle Sports Injuries
Mihra Taljanovic, MD, PhD

MUSCULOSKELETAL DISEASE

8:00 - 10:00 **Imaging Orthopedic Hardware**
 Moderators: *Thomas LeCorroller, MD, PhD*
Theodore Miller, MD

8:00 – 8:15 MR Imaging of Metal: How To Do It
Christian Pfirrmann, MD, MBA
 8:15 – 8:30 CT Scanning of Metal: How To Do It
Kenneth Buckwalter, MD, MS, MBA
 8:30 – 9:00 Multimodality Imaging of Hip and Knee Replacements
Theodore Miller, MD, FACR
 9:00 – 9:20 Imaging of Shoulder Replacements *Alice, Ha, MD, MS*
 9:20 – 9:40 Imaging of Ankle Replacements
Laura Bancroft, MD, FACR
 9:40 – 10:00 Plates and Screws - What Do They Do?
Marcelo Bordalo-Rodrigues, MD, PhD

10:00 - 10:30 BREAK

10:30 - 12:00 **Imaging Peripheral Nerves with Detailed Anatomy and Lesion Characterization**
 Moderators: *Mario Maas, MD, PhD*
Avneesh Chhabra, MD

10:30 – 10:55 Ultrasound of the Brachial Plexus, Pathology and Technique Made Easy
Carlo Martinoli, MD
 10:55 – 11:05 MR Neurography: Current Perspectives and Literature Review
Gustav Andreisek, MD, MBA
 11:05 – 11:20 Peripheral Nerve Anatomy and Lesions in the Ankle and Foot
Jean Luc Drape, MD
 11:20 – 11:30 MR Neurography of Extra-Spinal Sciatica
John Carrino, MD, MPH
 11:30 – 11:45 Imaging Nerve Entrapment Syndromes of the Elbow and Forearm
Catherine Petchprapa MD
 11:45 – 12:00 Peripheral Nerve Lesions Around the Shoulder, How to Make the Imaging Diagnosis?
Ronald Adler, MD, PhD

12:00 - 13:30 LUNCH

13:30 - 15:00 **Cartilage/Bone (SAM)**
 Moderators: *Garry Gold, MD, Jung-Ah Choi, MD*

13:30 – 13:45 Normal Cartilage Structure *Richard Kijowski, MD*
 13:45 – 13:55 Fast Imaging - 5 Minute Knee MRI
Soterios Gyftopoulos, MD
 13:55 – 14:05 Isotropic 3D T2 Mapping *Patrick Omoumi, MD, PhD*
 14:05 – 14:15 Identifying Hidden Zones of the Far Posterior Cartilage of the Femoral Condyles
John Crues, MD, MS
 14:15 – 14:30 Cartilage Repair – Microfracture *Thomas Link, MD, PhD*
 14:30 – 14:45 Cartilage Repair – ACI *Carl Winalski, MD*
 14:45 – 15:00 Lesions at the Osteochondral Junction
Christine Chung, MD



OUTREACH

ISS Outreach Locations 2016-2018

2016

13-17 Feb	Kuwait
8-9 April	Skopje
14-16 April	Sumatra
5-6 May	Cotonou–Benin
16-17 August	Ho Chi Minh
30 Aug-1 September	Porto Alegre
14-15 October	Split
21-22 October	Porto

2017

12-13 April	Hangzhou
9-10 June	Montevideo
10-12 June	Bangkok
29-30 September	Plovdiv
27-28 October	Al Ain

2018

11-12 April	Berlin
13-14 April	Santiago
26-27 April	Larvik
1-4 August	Cartagena
9-10 August	Chennai City
10-11 October	Rio de Janeiro
11-13 October	Yangon

MEMBERSHIP COMMITTEE

Since the last annual meeting in NYC, the Committee reviewed applications on a rolling basis in November 2017, January 2018, and May 2018. 23 new members were accepted, of which all 23 were Radiologists. 11 were from North America, seven from Europe, one from South America, two from Africa, one from Asia, and one from Australia. Seven current members changed their status to Emeritus. Membership criteria are stated in the By-laws, but the Membership Committee has discretion to evaluate applicants on an individual basis. If you have any questions about sponsoring an applicant, please contact the committee Chair.

ISS SEED GRANT

Congratulations to the ISS 2017-2018 Seed Grant Awardees, Shivani Ahlawat, MD, Assistant Professor of Radiology at Johns Hopkins Department of Radiology and Radiological Sciences with his proposed Quantitative Functional and Metabolic Whole-Body Imaging in Patients with Neurofibromatosis type 1 and Darryl Sneag, MD, Assistant Professor, Hospital for Special Surgery and Weill Medical College Cornell and his proposed Novel Contrast Enhanced Vascular Suppression Techniques in MR Neurography.

There was a great deal of competition as dozens of top quality proposals were submitted. The selections were based on a list of criteria stated on the ISS website. We look forward to hearing their results at the 2019 ISS Meeting in Vancouver, CA.

BYLAW CHANGES

2018 ISS BYLAWS CHANGES REQUESTED BY EXECUTIVE COMMITTEE

Article I Section 1: Organization

Article III Section 1: Membership:

Emeritus members

Article V Section 5: Committees:

Nominating

Rules

Grants

Outreach

Archive and History. (Replacing the Historian section).

Further addition of

Article VI Section 1: Meetings:

Quorum rule

Article VII Section 1: Historian

Article XI Section 3: Procedures for Election of Membership

Application Process

Professional Experience

Committee meetings

Article I: Organization

Section 1: Organization

Currently reads:

This organization shall be known as The International Skeletal Society (ISS) hereafter called the Society.

Proposed change:

To add the following Mission Statement after the statement referenced in Article 1, Section 1:

“The ISS provides leadership in the practice, science and teaching of musculoskeletal medicine through an interdisciplinary and international membership recognized for its achievement in this field.”

(this statement will be before Article II: Objectives of the Society)

Article III: Membership

Section 2: Emeritus members

Currently reads:

Emeritus Members: Shall consist of Members of the Society who have been an Active Member for 30 or more years. Emeritus members shall apply for Emeritus Membership Status through the Society Membership Committee, and get final approval by vote of the Executive Committee. Emeritus members will have no voting rights, and cannot chair a Society committee, but can participate on committees, and will have all other rights and privileges of membership in the Society. Emeritus Members shall have reduced annual membership dues as determined by the Executive Committee. Emeritus members will pay registration to attend the annual meeting.

BYLAW CHANGES

Proposed change:

Emeritus members: An Emeritus member shall be an individual who has been a member of the ISS for over 25 years who has retired and is not working more than half time in their respective subspecialty disciplines. Dues will be waived for Emeritus members. Emeritus members will pay the customary member registration rate for the Members meeting and Annual meeting if they attend. Subscription to Skeletal Radiology will be optional with a fee based upon cost to the ISS to provide that subscription.

Article V: Committees

(i) Section 6: Nominating committee

("According to Section 6, there are two ExCom members (president and president-elect). According to Appendix A, only the president is a member of the committee. We suggest changing Appendix A along the lines of Section 6").

Currently reads:

The Nominating Committee shall consist of the President, President -Elect, the Chairperson of the Rules Committee, and three (3) members one of whom shall not be a radiologist, who shall serve for a period of two (2) years. One of these three members shall be designated to serve as Chairperson. This Committee will assist the President in selecting committees, the President having the power to select the committee chairs (who will previously have been a committee member). The Nominating Committee shall perform its duties in accordance with the provision of Article X of these bylaws.

Appendix A amended as requested, see below.

(ii) Section 8: Rules Committee

Currently reads:

The Rules Committee shall consist of three (3) members, one of whom shall be Chairperson, each of whom shall serve for two (2) years. The Rules Committee shall be responsible for the By-Laws and may be called upon to interpret the By-Laws when questions arise. It shall, on order of the Executive Committee, prepare and submit amendments to the By-Laws, edit and present to the members any amendments proposed by members of the Society, and may, on its own motion, preface and present to the members any amendments which it deems necessary. It shall receive all resolutions introduced by members; it may reword them or combine those having the same intent for presentation.

BYLAW CHANGES

Proposed change:

The Rules Committee shall consist of 6 members in total: the **president, president elect and secretary and three (3) non-executive members**, one of whom shall be Chairperson. **Each committee member shall serve for two (2) years, except for the Chairperson, who shall serve as Chairperson for an additional two (2) years.**

The Rules Committee shall be responsible for the By-Laws and may be called upon to interpret the By-Laws when questions arise. It shall, on order of the Executive Committee, prepare and submit amendments to the By-Laws, edit and present to the members any amendments proposed by members of the Society, and may, on its own motion, preface and present to the members any amendments which it deems necessary. It shall receive all resolutions introduced by members; it may reword them or combine those having the same intent for presentation.

(iii) Section 13: Grants Committee

Currently reads:

The Committee on Grants shall consist of a Chairperson and six [6] members each of whom will serve for two [2] years. The Committee shall review applications for travel from members of good standing. Awards for travel should take into consideration the resources of the applicant, applications from developing countries, geographic location and proximity to the meeting site. The decisions of the Committee will require the approval of the Executive Committee.

Proposed change:

The Committee on Grants shall consist of a Chairperson and six [6] members each of whom will serve for two [2] years. The Committee shall review applications for travel from members of good standing **and from non-members actively** contributing to the annual Society meeting. Awards for travel should take into consideration the resources of the applicant, applications from developing countries, previous travel grant awarded, geographic location and proximity to the meeting site. The decisions of the Committee will require the approval of the Executive Committee.

(iv) Section 17: Outreach Committee

Currently reads:

The Outreach Committee shall be responsible for arranging educational visits by members of the International Skeletal Society. The Committee shall consist of a Chairperson appointed for 2 years and 4 other members.

Proposed change:

The Outreach Committee shall be responsible for arranging educational visits by members of the International Skeletal Society. The Committee shall consist of a Chairperson appointed for 2 years and 4 other members, **including the treasurer and a pathologist. The overall composition of the committee should aim to reflect the international scope and diversity of**

BYLAW CHANGES

Section 19: Archive and History committee ADDITION (Proposed Change)

The Archive and History committee shall consist of up to 6 members, one of whom will be chairperson and called the Historian. The members will serve for a period of 2 years which may be renewable thereafter by approval of the Executive Committee. The historical committee shall work with the Society's management group to ensure that all significant Society documents are accurately collected, organized, and archived safely and redundantly. This includes a list of past Presidents, annual Society meeting dates and locations, annual Society meeting programs, annual Society meeting minutes, Executive Committee meeting minutes, Committee Chairs meeting minutes, liaison summary reports, award winners, official Society acknowledgments, significant correspondence, photographs, relevant recordings, Society artifacts, and other business of the Society as appropriate. They will also work with the managing company of the ISS and the website electronic committee communication and education committee to display a timeline and pertinent events related to the history of the ISS on the ISS website. The Chair or Co-Chair of the committee will ensure that the Society's management group has designated an official Society photographer to be responsible for taking photographs during the course of the annual Society meeting.

Therefore, currently sections 19 and 20 become sections 20 and 21:

Currently reads:

Section 19

All other necessary ad-hoc committees and representatives not specifically mentioned previously shall be appointed by the President in consultation with the Executive Committee.

Section 20

Reporting requirements of the Standing Committees are tabulated in Appendix B of these by-laws.

Proposed change:

Section 20

All other necessary ad-hoc committees and representatives not specifically mentioned previously shall be appointed by the President in consultation with the Executive Committee.

Section 21

Reporting requirements of the Standing Committees are tabulated in Appendix B of these by-laws.

NOTE: In addition, currently the role of the historian comprises a complete article in the bylaws. As this article will be deleted, all following articles will be renumbered thus:

BYLAW CHANGES

Currently:

ARTICLE VIII ISS endowment fund becomes ARTICLE VI

ARTICLE IX. Procedures becomes ARTICLE VIII

Etc...etc

Thus, the final changes to the numbering system are:

Article I

Section 1: This organization shall be known as The International Skeletal Society (ISS) hereafter called the Society

Article II: Objectives of the Society

Article III: Membership

Article IV: Officers

Article V: Committees

Article VI: Meetings

Article VII: ISS endowment fund

Article VIII: Procedures

Article IX: Elections

Article X: Procedures for Election of Membership

Article XI: Terms of Office

Article XII: Membership Dues and Fees

Article XIII: Editors and Editorial Board

Article XIV: Balloting

Article XVI: Dissolution

BYLAW CHANGES

Article VI: Meetings Section 2:

Currently reads:

A quorum for conducting business at the annual business meeting for election of officers shall be 25% of the Membership when voting in North America, or 20% of Membership when the meeting is held outside of North America. If a quorum is not present, the Secretary will arrange postal or electronic ballots within three (3) months.

Proposed change:

A quorum for conducting business at the annual business meeting for election of officers shall be 25% of the Membership registered for the Annual Meeting.

Historian Article VII Section 1:

Currently reads:

A historian shall be appointed by the Executive Committee to serve for a period of two (2) years which may be renewable thereafter by approval of the Executive Committee. He/she shall provide safekeeping of all official records and transactions of the Society.

Proposed change: Create an additional committee and delete article VII entirely:

Article XI: Procedures for Election of Membership Section 2: Application for Membership

Currently reads:

Applications must be made in writing to the Chairperson of the Membership Committee, accompanied by a completed membership application form and a curriculum vitae that includes a listing of all publications of the applicant. Supporting letters from two active members of the Society one of whom must be in the same discipline as the applicant. These shall be sent directly to the Chairperson of the Membership Committee or the management company of the society. No active member may propose more than two individuals each year for membership.

Proposed change:

To remove **“No active member may propose more than two individuals each year for membership.”**

BYLAW CHANGES

(i) Section 3: Professional Experience

Currently reads:

A candidate for membership shall have been actively engaged in his/her professional career for at least four (4) years following completion of a residency or post-graduate training program; should have a working knowledge of the English language; should be the first author on a minimum of six (6) publications related to musculoskeletal disorders that have appeared in refereed journals; and should have at least 50% of their professional activity related to musculoskeletal disorders and should have demonstrated support for the Society by having either attended its yearly meeting or published articles in Skeletal Radiology. In addition, the candidate should have a record of academic publication as evidenced by being first or senior author on a minimum of six (6) publications related to musculoskeletal disorders that have either appeared in refereed journals or are recognized by the membership committee as significant publications. It is recommended that at least 3 of the 6 publications be in English. However, the Membership Committee may at its discretion recommend candidates who do not meet these criteria if they feel the candidate meets an unfulfilled need of the society, such as geographic or subspecialty representation.

Proposed change:

A candidate for membership shall have been actively engaged in his/her professional career for at least four (4) years following completion of a residency or post-graduate training program; should have a working knowledge of the English language, should have at least 50% of their professional activity related to musculoskeletal disorders. **They should have a record of academic publication as evidenced by being first or senior author on a minimum of six (6) publications related to musculoskeletal disorders that have either appeared in refereed journals or are recognized by the membership committee as significant publications.** It is recommended that at least 3 of the 6 publications be in English. They should have demonstrated support for the Society by having either attended its yearly meeting or published articles in Skeletal Radiology. However, the Membership Committee may, at its discretion, recommend candidates who do not meet these criteria if they feel the candidate meets an unfulfilled need of the society, such as geographic or subspecialty representation.

(ii) Section 4: Committee Meetings

Currently reads:

The Membership Committee will meet at least annually, but may also meet by conference call or other electronic means during the course of the year to review applications for membership. Applicants who are approved by the Membership Committee during the course of the year will have their names, institutions, sponsor's names and specialties distributed electronically to the membership for comment, with a one month period for comments by members. If members submit no comments requiring additional discussion of an applicant during the time for comments, the names of the applicants will be forwarded electronically to the Executive Committee for final approval of the membership applications. In the case wherein comments from the membership indicate that additional discussion is needed about an applicant, the decision about membership will be deferred until the meeting of the Membership Committee at the annual meeting of the society, and then to the Executive Committee at the annual meeting and reported to the membership during the Business Meeting.

BYLAW CHANGES

Proposed change:

The Membership Committee will **confer** at least annually, either in person or by conference call or other electronic means during the course of the year to review applications for membership. Applicants who are approved by the Membership Committee during the course of the year will have their names, institutions, sponsor's names and specialties distributed electronically to the membership for comment, with a one month period for comments by members. If members submit no comments requiring additional discussion of an applicant during the time for comments, the names of the applicants will be forwarded electronically to the Executive Committee for final approval of the membership applications. In the case wherein comments from the membership indicate that additional discussion is needed about an applicant, the decision about membership will be deferred until the meeting of the Membership Committee at the annual meeting of the society, and then to the Executive Committee at the annual meeting and reported to the membership during the Business Meetings.

BYLAW CHANGES

Appendix A ISS BY-LAWS: APPENDIX A COMMITTEE MEMBERSHIP AND VOTING RIGHTS OF OFFICERS	Pres	Pres-Elect	Secretary	Treasurer
Executive Committee	Yes*	Yes*	Yes*	Yes*
Members Meeting	Yes	No	Yes	No
Program Committee				
Refresher Course Committee	Yes	Yes	Yes	Yes*
Audit Review Committee	No	No	No	No
Nominating Committee	Yes*	<u>YES</u>	<u>YES</u>	<u>YES</u>
Membership Committee	Yes	Yes	Yes	No
Rules Committee	Yes	<u>Yes</u>	<u>Yes</u>	No
Awards Committee	Yes	Yes	No	No
Liaison Committee	No	Yes*	No	No
Convention Planning Com- mittee	No	Yes*	Yes*	Yes*
Refresher Courses Promotion Committee	Yes	Yes	Yes	Yes
Committee on Grants	Yes	Yes	Yes	Yes
Intersociety Liaison Com- mittee	Yes	Yes	No	No
Prize Committee	No	No	No	Yes
Sponsorship Committee	Yes	Yes	Yes	Yes
Outreach Committee	<u>No</u>	<u>No</u>	<u>No</u>	Yes

* Member of Committee with vote. All other appointments are ex-officio without vote.

The Secretary-Elect and Treasurer-Elect, if in post, are non-voting members of the Executive Committee. The Secretary-Elect is also a non-voting member of the Membership Committee. The Treasurer-Elect is also a non-voting member of the Committee on Grants.

COMMUNICATION

ISS ELECTRONIC COMMUNICATIONS 2018



We are looking forward to ISS Berlin 2018! Join our Facebook, Instagram or Twitter feeds for announcements and updates. Throughout the year we'll be using the hashtag #iss2018berlin. Please help spread the word!

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