The International Skeletal Society

Refresher Course

August 17–20, 1994

Berlin, Germany

GENERAL INFORMATION

1. The Speakers' Preview Room (Office Conference Center) will be available from 9:00 a.m. Saturday the 13th to Saturday the 20th at 12:00 p.m. The hours of operation Sunday through Friday will be 9:00 a.m. to 6:00 p.m. daily for you to preview your slides and to pick up your prepared slide(s) in the exchange area of the conference center. Please check your rates on the daily schedule if you plan to return to the General Session Room.

2. No smoking in the meeting rooms, except the Speakeasy 21.

3. The General Meeting Room will be the Potemkin—Wednesday through Saturday.

4. The Guest Hospitality Gathering will be Monday to Wednesday from 9:00 a.m. to noon in The Library behind the bar. All spouses and accompanying guests are invited to be our guests for coffee and tea.

5. The Senate of Berlin cordially invites you and your guest(s) to a Reception Wednesday evening from 7:30 p.m. to 8:30 p.m. in the German Museum. Buses will depart at 6:15 p.m. from the front of Hotel. Please join us for a very enjoyable evening. Dress is cost and tie.

6. You may attend either of the Simultaneous Sessions in the following rooms:
   - Thursday: Room Pavillon – Session 1
   - Friday: Room Porch – Session 1
   - Thursday: Room Belvedere – Session 2
   - Friday: Room Belvedere – Session 2

Refresher Course:

Herbert J. Kaufmann, M.D. – Chairman
Dietrich H. Banzer, M.D. – Co-Chairman
Day 1

<table>
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<tr>
<td>7:00–8:30 a.m.</td>
<td>Registration, Coffee and Tea – Foyer of Room Potsdam</td>
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<tr>
<td>8:30–8:35 a.m.</td>
<td>OPENING WELCOME – Room Potsdam</td>
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<tr>
<td></td>
<td>Herbert J. Kaufmann, M.D., Andrew K. Poznanski, M.D.</td>
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<tr>
<td>8:35–9:45 a.m.</td>
<td>FOCUS SESSION I – Room Potsdam</td>
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<tr>
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<td>SERONEGATIVE SPONDYLAarthropathies</td>
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<tr>
<td></td>
<td>Moderators: Alex Norman, M.D., Valhalla, NY, USA</td>
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<td>Bryan J. Preston, M.D., Nottingham, England</td>
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<tr>
<td>8:35–9:05 a.m.</td>
<td>Ankylosing Spondylitis:</td>
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<td>Radiological and Morphological Clues to Diagnosis</td>
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<td>Wolfgang Dihlmann, M.D., Hamburg, Germany</td>
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<tr>
<td>9:05–9:25 a.m.</td>
<td>The Extraaxial Skeleton in Seronegative Spondylarthropathies</td>
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<td>Gerwin M. Lingg, M.D., Bad Kreuznach, Germany</td>
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<tr>
<td>9:25–9:45 a.m.</td>
<td>MRI of Spondylarthropathies</td>
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<td>Iain W. McCall, M.D., Shropshire, England</td>
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<tr>
<td>9:45–10:45 a.m.</td>
<td>14th Founders Lecture – Room Potsdam</td>
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<td>In Honor of Walter Bessler</td>
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<td>Moderator: Andrew K. Poznanski, M.D., Chicago, IL, USA</td>
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<td>Skeletal Surface Lesions with an Osteoid-Osseous Matrix</td>
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<td>Amy Beth Goldman, M.D., New York, NY, USA</td>
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<td>10:45–11:00 a.m.</td>
<td>Coffee Break</td>
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<td>11:00–11:05 a.m.</td>
<td>INTRODUCTION TO THE COURSE – Room Potsdam</td>
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<td>11:05–12:05 p.m.</td>
<td>IMAGING – Investigative Techniques I – Room Potsdam</td>
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<td>Moderators: Harry Genant, M.D., San Francisco, CA, USA</td>
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<td>Klaus Bohndorf, M.D., Augsburg, Germany</td>
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<td>11:05–11:25 a.m.</td>
<td>MRI: Selection of Optimal Parameters</td>
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<td>Arthur A. De Smet, M.D., Madison, WI, USA</td>
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<td>11:25–11:45 a.m.</td>
<td>MRI: Echo Planar Imaging</td>
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<td>Maximilian Reiser, M.D., Munich, Germany</td>
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<td>11:45–12:05 p.m.</td>
<td>MRI: Fast Spin Echo Techniques</td>
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<td>John B. Kneeland, M.D., Philadelphia, PA, USA</td>
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<tr>
<td>12:05–1:30 p.m.</td>
<td>Lunch</td>
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</table>
1:30–3:10 p.m.  IMAGING – Investigative Techniques II – Room Potsdam  
**Moderators:** Holger T. A. Pettersson, M.D., Lund, Sweden  
Gwilym S. Lodwick, M.D., Fort Lauderdale, FL, USA

1:30–1:50 p.m.  Radionuclide Imaging in Infections of the Musculoskeletal System  
Kristian Herrlin, M.D., Lund, Sweden

1:50–2:10 p.m.  Pinhole Scintigraphy: The Value of a Not-So-New Modality  
Young Whee Bahk, M.D., Seoul, Korea

2:10–2:30 p.m.  Detection and Evaluation of Bone Tumors by Scintigraphy  
Walter Bessler, M.D., Winterthur, Switzerland

2:30–2:50 p.m.  Digital Imaging  
Anthony J. Wilson, M.D., St. Louis, MO, USA

2:50–3:10 p.m.  Bone Biopsy  
Dennis Stoker, M.D., London, England

3:10–3:40 p.m.  Coffee Break

3:40–6:00 p.m.  ORTHOPEDIC PROBLEMS – Room Potsdam  
**Moderators:** Jaromir Kolar, M.D., Prague, Czech Republic  
Hans-Georg Willert, M.D., Göttingen, Germany

3:40–4:00 p.m.  Orthopedic Terminology for The Non-Orthopedist  
Raphael F. Kilcoyne, M.D., Lakewood, CO, USA

4:00–4:20 p.m.  Imaging of the Osteochondral Injury  
Lee F. Rogers, M.D., Chicago, IL, USA

4:20–4:40 p.m.  Skeletal Trauma in Young Athletes  
Robert H. Wilkinson, M.D., Lebanon, NH, USA

4:40–5:00 p.m.  MRI: Traumatic Bone Lesions  
Niels Egund, M.D., Odense, Denmark

5:00–5:20 p.m.  Bone Chips, Do They Really Heal? Two Years MRI Follow-up  
Herwig Imhoff, M.D., Vienna, Austria

5:20–5:40 p.m.  Pathologic Fractures  
Michael Bonfiglio, M.D., Iowa City, IA, USA

7:00 p.m.  RECEPTION OF THE SENATE OF BERLIN – Nature Museum
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<tr>
<td>7:30–8:00 a.m.</td>
<td><strong>Coffee and Tea</strong> – Foyer of Room Potsdam</td>
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<tr>
<td>8:00–9:10 a.m.</td>
<td><strong>FOCUS SESSION II – EWING’S SARCOMA</strong> – Room Potsdam</td>
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<td><strong>Moderators:</strong> Wolfgang Remagen, M.D., Cologne, Germany</td>
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<td>Mario Campanacci, M.D., Bologna, Italy</td>
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<td>8:00–8:20 a.m.</td>
<td><strong>Ewing’s Sarcoma: Prognostic and Diagnostic Features</strong></td>
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<td>Albert Roessner, M.D., Magdeburg, Germany</td>
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<td>8:20–8:40 a.m.</td>
<td><strong>Ewing’s Sarcoma: Imaging Spectrum</strong></td>
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<td>Francisco Aparisi-Rodriguez, M.D., Valencia, Spain</td>
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<td>8:40–9:00 a.m.</td>
<td><strong>Prognostic Factors of Ewing’s Sarcoma</strong></td>
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<td>Shinichiro Ushigome, M.D., Tokyo, Japan</td>
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<td>9:00–9:10 a.m.</td>
<td><strong>Therapeutic Trends</strong></td>
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<td>Zdenek Matejovsky, M.D., Prague, Czech Republic</td>
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<td>9:10–10:30 a.m.</td>
<td><strong>NORMAL SKELETON – BASIC CONCEPTS</strong> – Room Potsdam</td>
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<td><strong>Moderators:</strong> Morrie E. Kricun, M.D., Radnor, PA, USA</td>
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<td>Daniel Vanel, M.D., Villejuif, France</td>
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<td>9:10–9:30 a.m.</td>
<td><strong>Radiology of Enchondral Bone Development</strong></td>
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<td>Alan Oestereich, M.D., Cincinnati, OH, USA</td>
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<td>9:30–9:50 a.m.</td>
<td><strong>Painful Normal Variants</strong></td>
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<td>Jack P. Lawson, M.D., New Haven, CT, USA</td>
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<td>9:50–10:10 a.m.</td>
<td><strong>Benign Bone Lesions Mimicking Malignancy</strong></td>
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<td>Clément Fauré, M.D., Paris, France</td>
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<td>10:10–10:30 a.m.</td>
<td><strong>Bone Tumors and Tumor Like Lesions not Requiring Surgery</strong></td>
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<td>Hans-Georg Willert, M.D., Göttingen, Germany</td>
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<td>10:30–10:50 a.m.</td>
<td><strong>Coffee Break</strong></td>
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<tr>
<td>10:50–12:10 p.m.</td>
<td><strong>MUSCULOSKELETAL DISORDERS – BASIC CONCEPTS I</strong></td>
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<td>Room Potsdam</td>
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<td><strong>Moderators:</strong> Peter Bullough, M.D., New York, NY, USA</td>
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<td>Dennis Stoker, M.D., London, England</td>
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<td>10:50–11:10 a.m.</td>
<td><strong>What’s New in Bone Tumors?</strong></td>
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<td>Andrew G. Huvos, M.D., New York, NY, USA</td>
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<tr>
<td>11:10–11:30 a.m.</td>
<td><strong>The Wrong Approach to Tumors of the Musculoskeletal System: What Should Be Done?</strong></td>
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<td>Mario Campanacci, M.D., Bologna, Italy</td>
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<td>11:30–11:50 a.m.</td>
<td><strong>Lesions of Juxta Cortical Origin (Surface Lesions)</strong></td>
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<td>Samuel Kenan, M.D., New York, NY, USA</td>
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<tr>
<td>11:50–12:10 p.m.</td>
<td><strong>Radiologic Rate of Growth of Bone Lesions – Revisited</strong></td>
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<td>Gwilym S. Lodwick, M.D., Ft. Lauderdale, FL, USA</td>
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### Day 2

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<tr>
<td>12:10–1:30 p.m.</td>
<td>Lunch</td>
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</table>
| 1:30–3:10 p.m. | **SIMULTANEOUS SESSION** – Room Potsdam  
**MUSCULOSKELETAL DISORDERS – BASIC CONCEPTS II**  
**Moderators:** Young Whee Bahk, M.D., Seoul, Korea  
Joseph M. Mirra, M.D., Los Angeles, CA, USA |
| 1:30–1:50 p.m. | Imaging of Bone Tumor Response to Preoperative Chemotherapy  
Rainer Erlemann, M.D., Duisburg, Germany |
| 1:50–2:10 p.m. | MRI of Bone Tumors  
George B. Greenfield, M.D., Tampa, FL, USA |
| 2:10–2:30 p.m. | Anatomic Basis of the Benign and Malignant Tumors of Hyaline Cartilage –  
From R. Virchow to the Present  
Joseph M. Mirra, M.D., Los Angeles, CA, USA |
| 2:30–2:50 p.m. | Cartilage Tumors: Pitfalls in Diagnosis  
Adam Greenspan, M.D., Sacramento, CA, USA |
| 2:50–3:10 p.m. | Chondrosarcoma and its Variants  
Douglas J. Pritchard, M.D., Rochester, MN, USA |
| 3:10–3:30 p.m. | Coffee Break                                                          |
| 3:30–5:10 p.m. | **MUSCULOSKELETAL DISORDERS – BASIC CONCEPTS III**  
Room Potsdam  
**Moderators:** Krishnan K. Unni, M.D., Rochester, MN, USA  
Jack P. Lawson, M.D., New Haven, CT, USA |
| 3:30–3:50 p.m. | Vascular Tumors of Bone and Soft Tissues  
Klaus Remberger, M.D., Homburg/Saar, Germany |
| 3:50–4:10 p.m. | Variable Appearances of Eosinophilic Granuloma in Children  
Kasimierz Kozlowski, M.D., Sydney, Australia |
| 4:10–4:30 p.m. | Diagnosis of Bone Metastases: Strategic Approach  
Jean F. Garcia, M.D., Geneve, Switzerland |
| 4:30–4:50 p.m. | Malignant Giant Cell Tumor of Bone  
Takeo Matsuno, M.D., Sapporo, Japan |
| 4:50–5:10 p.m. | Fibrous Lesions of Bone  
Jean Pringle, M.D., Middlesex, England |
| 5:10–6:00 p.m. | **KEY NOTE ADDRESS** – Room Potsdam  
"Maintaining Emotional Stamina in a World of Change"  
Dr. Mortimer Feinberg, New York, NY, USA  
Spouses and Guests are invited to this lecture of general interest. |
1:30–3:30 p.m.
SIMULTANEOUS SESSION – Room Belvedere
REGIONAL PATHOLOGY – SPINE
Moderators: Herwig Imhoff, M.D., Vienna, Austria
Iain W. McCall, M.D., Oswestry, Great Britain

1:30–1:50 p.m.
Special Aspects of the Pediatric Spine
Herbert J. Kaufmann, M.D., Ammelsdorf/Berlin, Germany

1:50–2:10 p.m.
Cervical Spine Variants Confused with Trauma
Stanley Bohrer, M.D., Winston-Salem, NC, USA

2:10–2:30 p.m.
MRI: Cervical Spine
Morrie E. Kricun, M.D., Radnor, PA, USA

2:30–2:50 p.m.
Multimodality Diagnosis of Cervical Spondylolysis
Salutario Martinez, M.D., Durham, NC, USA

2:50–3:10 p.m.
Non-Traumatic Vertebral Collapse
Jean-Denis Laredo, M.D., Paris, France

3:10–3:30 p.m.
Imaging Metastatic Disease of the Spine
Tom Anderson, M.D., Chicago, IL, USA

3:30–3:50 p.m.
Coffee Break

3:50–5:10 p.m.
SIMULTANEOUS SESSION – cont. – Room Belvedere
REGIONAL PATHOLOGY – HAND
Moderators: Jean Pringle, M.D., Middlesex, England
Michael Pitt, M.D., Birmingham, AL, USA

3:50–4:10 p.m.
Symphalangism – Is This the Shrewsbury Mark?
John B. Campbell, M.D., Orlando, FL, USA

4:10–4:30 p.m.
MRI of the Arthritis in Small Hand Joints
Vladimir Jevec, M.D., Ljubljana, Slovenia

4:30–4:50 p.m.
The Hand: A Microcosm of Rheumatoid Arthritis
René Lagier, M.D., Geneve, Switzerland

4:50–5:10 p.m.
MRI Applications to Hand Pathology
Frieda Feldman, M.D., New York, NY, USA

5:10–6:00 p.m.
KEY NOTE ADDRESS – See previous page – Room Potsdam
Coffee and Tea

**FOCUS SESSION III – OSTEOPOROSIS** – Room Potsdam
**Moderators:** Friedrich Heuck, M.D., Stuttgart, Germany
Frieda Feldman, M.D., New York, NY, USA

**MRI: Osteoporosis Assessment**
Harry K. Genant, M.D., San Francisco, CA, USA

**Quantitative Measurements in Osteoporosis (Including Ultrasound)**
Judith E. Adams, M.D., Manchester, England

**Histomorphometric Analysis of Osteoporosis**
Andreas Schulz, M.D., Giessen, Germany

**Osteoporosis Management: A Critical Review**
Dietrich H. Banzer, M.D., Berlin, Germany

**NON-TUMOROUS DISORDERS I** – Room Potsdam
**Moderators:** Claus-Peter Adler, M.D., Freiburg, Germany
George B. Greenfield, M.D., Tampa, FL, USA

**Infantile Cortical Hyperostosis**
Lionel W. Young, M.D., Loma Linda, CA, USA

**Diffuse Idiopathic Skeletal Hyperostosis and Other Enthesiopathies – Revisited.**
William Martel, M.D., Ann Arbor, MI, USA

**Epidemiology and Pathogenesis of Paget’s Disease**
Alex Norman, M.D., Valhalla, NY, USA

**Unusual Manifestations of Paget’s Disease; Phenomena Under Modern Therapy**
Jürgen Freyschmidt, M.D., Bremen, Germany

**Coffee Break**

**SIMULTANEOUS SESSION – Room Potsdam**

**NON-TUMOROUS DISORDERS II**
**Moderators:** Robert H. Wilkinson, M.D., Lebanon, NH, USA
Clément Fauré, M.D., Paris, France

**Introgenic Skeletal Changes in the Fetus**
Melvin Becker, M.D., Manhasset, NY, USA

**Ultrasound in Children’s Joints**
David J. Wilson, M.D., Oxford, England

**MRI of Joint Diseases in Children**
Andrew K. Poznanski, M.D., Chicago, IL, USA

**Joint Destruction in Hemophilia – Evaluation and Classification by Conventional X-Ray and MRI**
Holger T. A. Pettersson, M.D., Lund, Sweden

**Lunch**
10:50–12:10 p.m. SIMULTANEOUS SESSION – Room Belvedere
REGIONAL PATHOLOGY – ANKLE AND FOOT
Moderators: Si-Kwang Liu, M.D., New York, NY, USA
            Jean F. Garcia, M.D., Geneve, Switzerland

          MRI of Ankle Ligaments
            Named Mesgarzadeh, M.D., Ambler, PA, USA

          MRI of the Ankle Tendons
            Lynne Steinbach, M.D., San Francisco, CA, USA

          CT of the Foot and Ankle
            Louis A. Gilula, M.D., St. Louis, MO, USA

          Imaging of the Diabetic Foot
            Richard H. Gold, M.D., Los Angeles, CA, USA

          Lunch

1:30–3:10 p.m. SIMULTANEOUS SESSION – Room Potsdam
SOFT TISSUES
Moderators: Andrew G. Huvos, M.D., New York, NY, USA
            Ronald A. Bloom, M.D., Jerusalem, Israel

          Soft Tissue Calcification and Ossification
            Harry J. Griffiths, M.D., Minneapolis, MN, USA

          Pediatric Musculoskeletal Ultrasound
            Paul K. Kleinman, M.D., Worchester, MA, USA

          Imaging of Muscle and Tendon Injury
            George Y. El-Khoury, M.D., Iowa City, IA, USA

          MRI: Principles in the Evaluation and Diagnosis of Soft Tissue Masses
            Murali Sundaram, M.D., St. Louis, MO, USA

          MRI of Myositis Ossificans and Related Soft Tissue Inflammatory Processes
            Shigeru Ehara, M.D., Morioka, Japan

          Coffee Break

3:30–5:10 p.m. SIMULTANEOUS SESSION – Room Potsdam
INFLAMMATORY DISORDERS
Moderators: Harry J. Griffiths, M.D. Minneapolis, MN, USA
            Shigeru Ehara, M.D., Morioka, Japan

          Musculoskeletal Manifestations of AIDS
            Jamshid Tehranzadeh, M.D., Orange, CA, USA

          Musculoskeletal Tuberculosis
            Ibrahim, F. Abdelwahab, M.D., Forest Hills, NY, USA

          Inflammation of the Musculoskeletal System: Multimodality Diagnosis Approach
            Klaus Bohndorf, M.D., Augsburg, Germany
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| 4:30-4:50 p.m. | MRI: Arthritis Assessment  
Iain Watt, M.D., Bristol, England                                                                 |
| 4:50-5:10 p.m. | Small Joints, Big Problems:  
Imaging of the Temporomandibular Joint  
Andreas Nidecker, M.D., Basel, Switzerland |
| 1:30-3:10 p.m. | SIMULTANEOUS SESSION – Room Belvedere  
REGIONAL PATHOLOGY – SHOULDER AND ARM  
Moderators: Murray Dalinka, M.D., Philadelphia, PA, USA  
Henry Schütte, M.D., Rotterdam, The Netherlands |
| 1:30-1:50 p.m. | Conventional Radiography in Diseases of the Shoulder  
Bryan J. Preston, M.D., Nottingham, England |
| 1:50-2:10 p.m. | Elbow Sonography and Arthrosonography  
Marnix van Holsbeeck, M.D., Detroit, MI, USA |
| 2:10-2:30 p.m. | MRI of Rotator Cuff Injuries  
Donald Resnick, M.D., San Diego, CA, USA |
| 2:30-2:50 p.m. | Rapidly Destructive Arthritis of the Shoulder  
Vung Duy Nguyen, M.D., San Antonio, TX, USA |
| 2:50-3:10 p.m. | Dislocation of the Sternalclavicular Joint  
Ray Cope, M.D., Columbia, MO, USA |
| 3:10-3:30 p.m. | Coffee Break |
| 3:30-5:10 p.m. | SIMULTANEOUS SESSION – Room Belvedere  
REGIONAL PATHOLOGY – HIP AND KNEE  
Moderators: Donald Resnick, M.D., San Diego, CA, USA  
Maximilian Reiser, M.D., Munich, Germany |
| 3:30-3:50 p.m. | MRI: Hip Pain  
Robert Schneider, M.D., Larchmont, NY, USA |
| 3:50-4:10 p.m. | Paraarticular Disease of the Hip  
Alain Chevrot, M.D., Paris, France |
| 4:10-4:30 p.m. | MRI: Bone Necrosis in Children  
Naomi Perlmutter-Cremer, M.D., Bruxelles, Belgium |
| 4:30-4:50 p.m. | MRI of the Knee – Pitfalls  
Clyde A. Helms, M.D., San Francisco, CA, USA |
| 4:50-5:10 p.m. | MRI of Meniscal Abnormalities  
Murray K. Dalinka, M.D., Philadelphia, PA, USA |
| 7:00 p.m. | Reception and Dinner – Hosted by Agfa at the Radisson Plaza Hotel |
7:30–8:00 a.m.  
Coffee and Tea

8:00–9:40 a.m.  
**MISCELLANEOUS TOPICS I** – Room Potsdam  
**Moderators:** Akbar Bonakdarpour, M.D., Philadelphia, PA, USA  
Lionel Young, M.D., Akron, OH, USA

8:00–8:20 a.m.  
**Postradiation Changes of Bone**  
Claus-Peter Adler, M.D., Freiburg, Germany

8:20–8:40 a.m.  
**Skin and Bones: Radiologic Implications of Dermal Disease**  
Gil Brogdon, M.D., Mobile, AL, USA

8:40–9:00 a.m.  
**Contergan Embryopathy – Update**  
Janet McCredie, M.D., Darling Point, NSW, Australia

9:00–9:20 a.m.  
**Fibrous Dysplasia: Radiologic-Pathologic Correlation**  
Mark J. Kransdorf, M.D., Washington, D.C., USA

9:20–9:40 a.m.  
**Synovial Osteochondromatosis**  
George J. Zafiroski, M.D., Skopje, Macedonia

9:40–10:00 a.m.  
Coffee Break

10:00–11:00 a.m.  
**MISCELLANEOUS TOPICS II** – Room Potsdam  
**Moderators:** Gil Brogdon, M.D., Mobile, AL, USA  
Alain Chevrot, M.D., Paris, France

10:00–10:20 a.m.  
**Solitary Myeloma of Bone, Fact and Fancy**  
Virinder Mohan, M.D., Sultanate of Oman

10:20–10:40 a.m.  
**Advanced Imaging of Skeletal in Gaucher’s Disease**  
George Hermann, M.D., Forest Hills, NY, USA

10:40–11:00 a.m.  
**Hemihypertrophy Syndromes**  
Michel E. Azouz, M.D., Montreal, Quebec, Canada

11:00–12:00 noon  
**QUIZ AND PANEL OF EXPERTS** – Room Potsdam  
1. Maximilian Reiser, M.D.  
4. Daniel Vanel, M.D.  
2. Klaus Bohndorf, M.D.  
5. Murray Dalinka, M.D.  
3. Andreas Nidecker, M.D.  
6. Michel Azouz, M.D.

12:00 noon  
**CLOSING REMARKS** – Room Potsdam  
**Moderator:** Andrew K. Poznanski, M.D., Chicago, IL, USA

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