Küntscher Society Annual Meeting

A joint organisation with the Belgian Orthopaedic Trauma Association

Osteosynthese International 2015

10-11 September 2015
Academy Palace, Brussels, Belgium

Preliminary Program

www.osteosynthese2015.be
Dear colleagues,

On behalf of the scientific committee, I’m proud and honored to host 'Osteosynthese International 2015', the Annual Meeting of the Gerhard Küntscher Society, on 10-11 September in Brussels, Belgium.

The Gerhard Küntscher Society is a worldwide well-recognized non-profit scientific organization whose main goal is to stimulate research in the field of operative fracture care.

Building on last years successful meeting editions, our proposal includes open sessions with opportunity for discussion and focus lectures by international experienced faculty as well as industrial partner workshops designed for young colleagues, residents and experienced clinicians. Ample time will be provided for free communications for oral and poster presentations. This meeting will be a unique opportunity for all involved in orthopedic trauma management, to share their knowledge and expertise.

Even if some of you could think that everything has been said, things are evolving every day in these fields. Undoubtedly you will find many topics of interest and discussion.

Brussels, the Capital of Europe, will take care of the hosting and your comfort. The meeting will take place in the Academy Palace, the former Palace of William, Prince of Orange, which is situated next to the Royal Palace in the center of Brussels.

Apart from its famous chocolates and beers, the green city of Brussels is in the centre of European culture, with many museums, beautiful parks, fascinating walks, trendy restaurants and bars.

We look forward to welcome you in Brussels,

Pieter Reynders
Congress President

Dear Colleagues,

The Küntscher Society returns to Belgium. As president of the Küntscher Society I’m pleased to invite you to our annual meeting in 2015.

Twenty-one years after our meeting in Leuven, Prof. Piet Reynders will welcome us in Brussels, capital of Belgium and Europe.

Is there a better place to discuss fracture treatment then the town where during the last century Albin Lambotte and Robert Danis have worked and have laid the base of modern osteosynthesis?

I would like to appeal to every surgeon involved in fracture care and especially to the young surgeons and residents, to join us and discuss with us new developments and /or standards in intramedullary osteosynthesis in particular, but fracture care in general.

Dear Colleagues, in co-operation with the Belgian Orthopaedic Trauma Association the organizing committee has prepared an interesting scientific program with key-notes, papers and workshops.

Something for everybody’s interest, so join us and register.
Bidding you a cordial welcome in Brussels,

Jan Verbruggen
President of the Küntscher Society
Gerhard Küntscher Society

Board Members

- **Jan VERBRUGGEN**, President  
  *Maastricht University Medical Center, The Netherlands*
- **Georg GRADL**, Vice President  
  *Klinikum München Harlaching, Germany*
- **Anica ESCHLER**, Secretary  
  *University of Rostock, Germany*
- **Rüdiger HAASE**, Treasurer  
  *Krankenhaus Bethel Berlin, Germany*
- **Kemal AKTUGLU**  
  *University of Ege, Izmir, Turkey*
- **Roland BIBER**  
  *Klinikum Nürnberg, Germany*
- **Peter GIANNOUDIS**  
  *Leeds General Infirmary Chapel Allerton Hospital, United Kingdom*
- **Mattheos SAVVIDIS**  
  *General Military Hospital of Thessaloniki, Greece*
- **Patrick SIMON**  
  *Hôpital St. Joseph St. Luc, Lyon, France*
- **Michael WICH**  
  *Unfallkrankenhaus Berlin, Germany*
- **Robert ZURA**  
  *Duke University Medical Center, Durham, USA*

Osteosynthese International 2015 Organizing committee

- **Pieter REYNDERS**, President  
  *University Hospital Brugmann Brussels*
- **Oliver Cornu**, President BOTA  
  *Cliniques universitaires Saint-Luc, Université catholique de Louvain, Brussels, Belgium*
- **Guy PUTZEYS**, Vice-President BOTA  
  *AZ Groeninge Hospital Kortrijk*
- **Pol ROMMENS**  
  *University Medical Center Mainz, Germany*
- **Frédéric SCHUIND**  
  *Erasme University Hospital Brussels*
- **Jan VERBRUGGEN**  
  *President of the Küntscher Society, Maastricht University Medical Center, The Netherlands*
General Information

Venue

Osteosynthese International 2015, a joint organisation of the Annual meeting of the Gerhard Küntscher Society and the Belgian Orthopaedic Trauma Association, will take place on 10 and 11 September at the Academy Palace (also know as the Palace of Academies or Academy House), Brussels, Belgium.

The Academy Palace is today the seat of the Royal Belgian Academies of Medicine, Sciences and Arts but was formerly the Palace of William, Prince of Orange.

Address: Academy Palace, Hertogsstraat 1 – rue Ducale 1, 1000 Brussels

How to reach the venue?

By plane
Belgium’s international airport is situated in Zaventem, near Brussels. From Brussels airport it is possible to travel by train (http://www.b-rail.be). In the airport, follow the signs to the train station, which is below ground level. Take the train to Central Station, which runs every 15 minutes.

By train and metro
Central Station: From Central Station it is 15 minutes walking through Ravenstijn Gallery and Royal Park, to the Palace of the Academies.

South Station: Take in the South Station subway line 2 or 6 direction "Simonis Elisabeth" get off at stop 'Throne'.

North Station: Take exit "Centrum" and walk straight up the street to the metro stop Rogier. Then take metro line 2 direction "Simonis - Leopold II" or line 6 direction " Roi Baudouin ", get off at stop "Throne".

By car

Social Program

Dinner: Thursday 10 September at 20h00

Venue: La Maison du Cygne, grand Place 9, 1000 Brussels

La Maison du Cygne is the gastronomical restaurant “par excellence” on the Grand-Place of Brussels. Behind the facade of the seventeenth century and its famous swan (which gave the name to the restaurant, a swan being a cygne in French) this exceptional house has welcomed plenty of celebrities of the world. It is recognized as one the best restaurants of Brussels in the Michelin guide.
Faculty members

• Joris ANTHONISSEN
  Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany

• Bertil BOUILLON
  Department of Trauma and Orthopedic Surgery, Cologne-Merheim Medical Center (CMMC), Witten/Herdecke University, Witten, Germany

• Eric CESAREO
  URMARS, CHU de Lyon, Groupement Hospitalier Edouard Herriot. Hospices Civils de Lyon, Lyon, France

• Tim CHESSER
  Trauma and Orthopaedic Department, North Bristol NHS Trust, Bristol, UK

• Olivier CORNU
  Orthopaedic and Trauma Department, Cliniques universitaires Saint-Luc, Université catholique de Louvain, Brussels, Belgium

• Peter DE PAEPE
  Department of Emergency Medicine, Ghent University Hospital, Ghent, Belgium

• Antoinette EDWARDS
  Institute of Population Health, Manchester Medical Academic Health Sciences Centre, University of Manchester, Salford, UK

• Patric GARCIA
  Department of Trauma-, Hand- and Reconstructive Surgery, University Hospital Münster, Münster, Germany

• Torsten GERICH
  Traumatologie des Centre Hospitalier de Luxembourg, Luxembourg, Luxembourg

• Peter GERMONPRE
  Center for Hyperbaric Oxygen Therapy, Military Hospital - Queen Astrid, Brussels, Belgium

• Dominik GRUSZKA
  Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany

• Alexander HOFMANN
  Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany

• Jörg HOLSTEIN
  Department of Trauma, Hand & Reconstructive Surgery, University of Saarland, Homburg, Saar, Germany

• Marc JAYANKURA
  Department of Orthopaedic surgery and Traumatology, Erasme University Hospital, Brussels, Belgium

• Dimitrios KOULALIS
  Department of Orthopaedic Surgery, Erasme University Hospital, Université libre de Bruxelles, Brussels, Belgium
• Christian KRETTEK
  *Trauma Department, Hannover Medical School, Hannover, Germany*

• Wolfgang LEHMANN
  *Department of Trauma, Hand and Reconstructive Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany*

• Stefaan NIJS
  *Department of Trauma Surgery and Department Development and Regeneration, University Hospitals Leuven, Leuven, Belgium*

• Philip PAIRON
  *Division of Orthopaedics and Traumatology, Geneva University Hospitals, Faculty of Medicine, University of Geneva, Geneva, Switzerland*

• Michael RASCHKE
  *Department of Trauma-, Hand- and Reconstructive Surgery, University Hospital Münster, Münster, Germany*

• François PITANCE
  *Medical Director Prehospital Trauma Life Support Belgium and Department Anaesthesia and Intensive Care Medicine, CHR de la Citadelle Liège, Liège, Belgium*

• Pol ROMMENS
  *Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany*

• Thomas ROSE
  *Department Head Burn Unit, Laboratory for Molecular & Cellular Technology, Human Skin- and Keratinocyte Bank, Queen Astrid Military Hospital, Brussels, Belgium*

• Frédéric SCHUIND
  *Department of Orthopaedic Surgery, Erasme University Hospital, Université libre de Bruxelles, Brussels, Belgium*

• David SELIGSON
  *Department of Orthopedics, University of Louisville, Louisville, KY, United States*

• Fabian STUBY
  *BG Trauma Center, Eberhard Karls University Hospital, Tuebingen, Germany*

• Peter THALLER
  *3D-Surgery, Department of Trauma Surgery, Ludwig-Maximilians University, Munich, Germany*

• Maximilien THOMA
  *Department of Digestive Surgery, Cliniques Universitaires Saint-Luc, Université Catholique de Louvain, Brussels, Belgium*

• Theodorus TOSOUNIDIS
  *Leeds General Infirmary, Leeds, UK*

• Johan VAN BUSSEL
  *Department healthdata.be, Belgian Scientific Institute of Public Health, Brussels, Belgium*

• Isabelle VAN HEERZEELE
  *President of the Dutch Society for Simulation in Healthcare and Department of Surgery, Ghent University Hospital, Ghent, Belgium*
• **Endre VARGA**  
  *Department of Trauma Surgery, University of Szeged, Albert Szent-Györgyi Clinical Center, Szeged, Hungary*

• **Jan VERBRUGGEN**  
  *Department of Surgery, division of Trauma surgery, Maastricht University Medical Center, Maastricht, The Netherlands*

• **Michiel VERHOFSTAD**  
  *Trauma Research Unit, Department of Surgery, Erasmus Medical Center Rotterdam, Rotterdam, The Netherlands*

• **Guido WANNER**  
  *Department of Surgery, Division of Trauma Surgery, University Hospital Zurich, Zurich, Switzerland*

• **Robert ZURA**  
  *Department of Orthopaedic Surgery, Duke University Medical Center, Durham, North Carolina, United States*
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>07h30</td>
<td>Registration</td>
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<td>08h30</td>
<td>Infections &amp; Non-Unions I</td>
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<td></td>
<td>09h15-10h15 Corporate Workshop session 1</td>
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<td>10h10</td>
<td>Honorary lecture</td>
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<td>10h25</td>
<td>Coffee Break/Poster Viewing</td>
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<tr>
<td>10h55</td>
<td>Infections &amp; Non-Unions II</td>
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<td>11h00-12h00 Corporate Workshop session 2</td>
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<td>12h05</td>
<td>Short Oral presentation of poster</td>
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<td>12h00-13h00 Corporate Workshop session 3</td>
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<td>13h00</td>
<td>Lunch Exhibition</td>
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<td>14h00: Tibia</td>
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<td>Drawing Lab: Analysis and end-point-first-planning of simultaneous lengthening and deformity correction of femur and tibia</td>
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<td>16h50: Humerus</td>
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<td>Pelvis - Femur</td>
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<td>18h15</td>
<td>Dinner</td>
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<td>08h30</td>
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<td>10h30</td>
<td>Gerhard Küntschler Lecture</td>
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<td>13h00-14h00 Corporate Workshop session 4</td>
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<td>14h00</td>
<td>Femur-Proximal</td>
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<td>BOTA Trauma Systems</td>
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<td>16h30</td>
<td>Coffee Break</td>
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<td>16h00</td>
<td>BOTA Trauma Education</td>
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<td>18h00</td>
<td>General Assembly GKS</td>
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In the footsteps of Louis Joseph Seutin, Albin Lambotte, Jean Verbrugge, Robert Danis, Robert Soeur and Robert Lacroix

The Belgian contribution to fracture care

Thursday 10 September 2015

Auditorium Albert

08.30-10.10 Infections & Non-Unions I
Moderators: tba

08.30 Infected non-unions
Lammens J.
Department Orthopaedic Surgery, Katholieke Universiteit Leuven, Leuven, Belgium

08.45 Bone segment transport over an intramedullary nail driven by hydraulics
Reyners P., Reynders-Frederix C.
Department Orthopedics & Traumatology, University Hospitals Brussels, Brussels, Belgium

08.55 Tibio-talo-calcaneal arthrodesis using a curved intramedullary nail in patients presenting severe preoperative risk factors for delayed union or non-union
Foot & Ankle Institute, Clinique du Parc Léopold, Brussels, Belgium

09.05 Treatment of aseptic diaphyseal nonunion of the lower extremities with intramedullary nailing and blocking screws without autografting
Bilgili M.G., Ercin E., Tanriverdi B., Edipoglu E., Kucukkaya M., Avkan C.
Orthopaedics and Traumatology, Bakirkoy Dr. Sadi Konuk Research and Training Hospital, Istanbul, Turkey

09.15 IL Bacteriophages as targeted antimicrobial in septic orthopaedics
Rose T.
Department Head Burn Unit, Laboratory for Molecular & Cellular Technology, Human Skin and Keratinocyte Bank, Queen Astrid Military Hospital, Brussels, Belgium

09.25 Bone marrows concentrate and demineralised bone matrix in the treatment of non unions
Fonkoue L., Tribak K., Putineanu D., Delloye Ch., Cornu O.
Orthopaedic and Trauma department, Cliniques universitaires Saint-Luc, Université Catholique de Louvain, Brussels, Belgium

09.35 Endoscopic guided Tbiotalocalcaneal arthrodesis after failed osteosynthesis of pilon fractures
Burssens A., Putzeys G., Devos Bevernage B., Van Der Bauwhede J., Michels F.
1Department of Orthopaedic Surgery, UZ Gent, Gent, Belgium; 2Department of Orthopaedic Surgery, AZ Groeninge Kortrijk, Kortrijk, Belgium; 3Foot and Ankle Institute Parc Leopold Clinic, Brussels, Belgium

09.45 Supra-malleolar osteotomy and retrograde tibial nail for lower extremity correction
Saccone C., Seligson D., Negran L.
1Department of Podiatric Surgery, 2Department of Orthopedics, University of Louisville, Louisville, KY, United States; 3Vienna Accident Hospital, Department of Orthopaedic Surgery, Vienna, Austria
10.00  IL  The use of massive allografts in diaphyseal reconstruction
Cornu O.
*Orthopaedic and Trauma Department, Cliniques universitaires Saint-Luc, Université catholique de Louvain, Brussels, Belgium*

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<th>10.10-10.25</th>
<th>Honorary lecture</th>
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10.10  Limits of external fixation
Schuind F.
*Department of Orthopaedic Surgery, Erasme University Hospital, Université libre de Bruxelles, Brussels, Belgium*

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<th>10.25-10.55</th>
<th>Coffee Break</th>
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10.55  IL  Late reconstruction after proximal tibial fractures
Krettek C.
*Trauma Department, Hannover Medical School, Hannover, Germany*

11.07  IL  Combination of platelet rich plasma with exchange intramedullary nailing in treatment of long bone atrophic non-unions
Duramaz A.¹, Uursavas H.T.², Bilgili M.G.¹, Karaali E.¹, Ones H.N.¹, Avkan M.C.¹
¹Department of Orthopedics and Traumatology, Bakırköy Dr Sadi Konuk Education and Research Hospital, Istanbul, Turkey; ²Department of Orthopedics and Traumatology, Van Military Hospital, Van, Turkey

11.17  IL  Hyperbaric Oxygen Therapy in Crush injury and compartment syndrome
Germonpre P.
*Center for Hyperbaric Oxygen Therapy, Military Hospital - Queen Astrid, Brussels, Belgium*

11.29  IL  Safety of nailing after external fixation
Koulalis D., Schuind F.
*Department of Orthopaedic Surgery, Erasme University Hospital, Université libre de Bruxelles, Brussels, Belgium*

11.41  IL  Post-traumatic amputations of the lower-limb 2005-2015 at the University Hospital of Liège
Berger M.J., Valcu A.
*Department of Orthopaedic surgery, Liège University, Liège, Belgium*

11.53  IL  Will I walk again? The challenge of rehabilitation in lower limb amputation
Brienza S., Prist V., Giersimowicz-Fontana A., Hatem S.M.
*Physical Medicine and Rehabilitation Clinic, Brugmann University Hospital, Brussels, Belgium*
12.05 P1 Treatment of long bone non-unions with Allomatrix
De Wouters S.\textsuperscript{1}, Traore S.\textsuperscript{1}, Tribak K.\textsuperscript{1}, Putineanu D.\textsuperscript{1}, Lecouvet F.\textsuperscript{2}, Cornu O.\textsuperscript{1}
\textsuperscript{1}Orthopaedic and Trauma Department, \textsuperscript{2}Department of Radiology, University Hospital St-Luc, Université Catholique de Louvain, Brussels, Belgium

12.09 P2 The RIA harvesting system; higher than expected peri-operative morbidity?
Reijen van N.\textsuperscript{1}, Derksen R-J.\textsuperscript{2}, Boer C.\textsuperscript{3}, Zuidema W.P.\textsuperscript{1}
\textsuperscript{1}Department of Trauma surgery, VU Medical Center, Amsterdam, The Netherlands; \textsuperscript{2}Department of Trauma surgery, ZMC, Zaandam, The Netherlands; \textsuperscript{3}Department of Anaesthesiology, VU Medical Center, Amsterdam, The Netherlands

12.12 P3 Long term follow-up and PROMS of patients with a medial clavicle fracture
Zuidema W.P., Poelemeijer Y.Q.M.
Department of Trauma surgery, VU University Medical Center, Amsterdam, The Netherlands

12.15 P4 Unexpected prolonged activity of DBX on PET-CT six years after implantation
Reijen van N., Zuidema W.P.
Department of Trauma surgery, VU University Medical Center, Amsterdam, The Netherlands

12.18 P5 Visualization of the lateral tibial plateau: a cadaveric study
Orthopaedic Surgery, Hospital for Special Surgery, New York, United States

12.22 P6 The diagnostic accuracy of radiographs and magnetic resonance imaging in predicting deltoid ligament ruptures in ankle fractures
Warner S.J.\textsuperscript{1}, Garner M.R.\textsuperscript{1}, Fabricant P.D.\textsuperscript{1}, Schottel P.C.\textsuperscript{2}, Loftus M.L., Hentel K.\textsuperscript{3}, Helfet D.L.\textsuperscript{1}, Lorich D.G.\textsuperscript{1,3}
\textsuperscript{1}Orthopaedic Surgery, Hospital for Special Surgery, New York, NY, USA; \textsuperscript{2}University of Texas, Houston, TX, USA; \textsuperscript{3}New York Presbyterian Hospital - Cornell, New York, NY, USA

12.26 P7 Removal of broken interlocking screws
Zamora R., Maniar H., Seligson D.
Department of Orthopedics, University of Louisville, Louisville, KY, United States

12.29 P8 Plastic blocking screw for tibia fractures with proximal or distal short fragments
Zamora R., Polley N., Himschoot K., Seligson D.
Department of Orthopedics, University of Louisville, Louisville, KY, United States

12.33 P9 Vertebral artery dissection as a complication in wiplash traumata in young adults
Mulier T.\textsuperscript{1}, Ruelens C.\textsuperscript{2}
\textsuperscript{1}Department of orthopedics, Heilig hart Leuven, Leuven, Belgium; \textsuperscript{2}UZ Leuven, KUL, Belgium

12.37 P10 Pelvic support osteotomy
Reyners-Frederix C., Reyners P.
Department Orthopedics & Traumatology, University Hospitals Brussels, Campus Sint-Pierre, Brussels, Belgium

12.41 P11 About a complex femoral fracture, a plate fracture and a non-union: a case report
Bhogal H., Lambert J.
Service d’orthopédie-traumatologie, Centre hospitalier Epicura, Hornu, Belgium

12.45 P12 A randomized trial on the effect of Botulinum Toxin A in decreasing thigh pain or improving range of motion during the distraction osteogenesis of femur
Lee DH., Ryu KJ., Kim HW., Hwang JH., Sung MK.
Severance Children’s Hospital, Yonsei University College of Medicine, Orthopaedic department, Seoul, South Korea
11. Epidemiology, demographics and treatment of pelvic ring fractures: a comparative retrospective register study
Van Den Wyngaert T., Putineanu D., Tribak K., Van Cauter M., Kaminski L., Banse X., Cornu O.
*Orthopaedic and Trauma Department, University Hospital St-Luc, Université Catholique de Louvain, Brussels, Belgium*

12.53 P14 Opioid Abuse - Medication assisted therapies
Easley D., Polley N., Kibbe S.
*White Lattice, Inc, Louisville, Kentucky, United States*

12.56 P15 Opioid abuse disorder, report of a case
Easley D.
*White Lattice, Inc, Louisville, Kentucky, United States*

13.00-14.00 Lunch

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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>14.00</td>
<td>IL</td>
<td>Plate Osteosynthesis of the proximal tibia</td>
<td>Raschke M.</td>
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<td></td>
<td><em>Department of Trauma-, Hand- and Reconstructive Surgery, University Hospital Münster, Münster, Germany</em></td>
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<td><em>Orthopaedic Surgery, Hospital for Special Surgery, New York, United States</em></td>
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<td>14.32</td>
<td>IL</td>
<td>Distal tibial fractures – Intramedullary nailing versus MIPO</td>
<td>Savvidis M., Konstantinidis A., Bisbinas E., Georgiannos D., Kapoutsis D., Gkouvas G.</td>
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<td></td>
<td></td>
<td><em>1st Orth. Dept, 424 General Military Hospital, Thessaloniki, Greece</em></td>
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<tr>
<td>14.42</td>
<td>IL</td>
<td>IM nailing of metaphyseal fractures</td>
<td>Krettek C.</td>
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<td><em>Trauma Department, Hannover Medical School, Hannover, Germany</em></td>
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<td>14.54</td>
<td>IL</td>
<td>Biomechanical comparison of distal interlocking methods at sheep tibia models, used in fixation of distal tibia shaft fractures with intramedullary nails</td>
<td>Kaya Y.E., Isık C., Sarman H., Akpinar F.</td>
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<td><em>Abant Izzet Baysal University, department of Orthopaedy and Traumatology, Bolu, Turkey</em></td>
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<tr>
<td>15.04</td>
<td>IL</td>
<td>Intramedullary nailing of the tibia: the semi-extended surgical approach improves final nail position compared with the conventional medial parapatellar approach – A prospective multicentre RCT</td>
<td>Johnstone A.¹, Munro C.², Caba P.², Escriba I.³, Forward D.⁴, Graf M.⁵</td>
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<td>¹Department of Orthopaedic Trauma, Aberdeen Royal Infirmary, Aberdeen, Scotland, UK; ²Hospital 12 de Octubre, Madrid, Spain; ³Hospital La Fe Valencia, Spain; ⁴Queens Medical Centre, Nottingham, UK; ⁵Medizinisches Zentrum StadtRegion Aachen, Wurselen, Germany</td>
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<td>15.16</td>
<td>IL</td>
<td>Role of bone substitutes and adjuvant strategies</td>
<td>Garcia P., Raschke M.</td>
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<td></td>
<td><em>Department of Trauma-, Hand- and Reconstructive Surgery, University Hospital Münster, Münster, Germany</em></td>
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15.30-16.00 Coffee Break & Poster Viewing
## Deformity correction-limb lengthening

**Moderators:** tba

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<th>Presentation</th>
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| 16.00  | IL                | Reconstructing long bone deformities by nails. Simple solutions for complex problems? | Thaller P.  
*3D-Surgery, Department of Trauma Surgery, Ludwig-Maximilians University, Munich, Germany* |
| 16.20  | IL                | The End Point First (EPF) planning method for deformity correction of the lower extremity | Wolf F.,  
Führmetz J., Weidert S., Delhey P., Thaller P.H.  
*3D-Surgery, Department of Trauma Surgery, Ludwig Maximilians University, Munich, Germany;  Clinic for Trauma-, Reconstruction and Orthopaedics, Krankenhaus Bietigheim, Bietigheim-Bissingen, Germany* |
| 16.30  | IL                | Management of limb-length discrepancy and deformity using PRECICE | Karakoyun O., Sökücü S., Erol M.F., Küçükkyaya M., Kabukçuğlu Y.S.  
*Department of Orthopedics and Traumatology, Namik Kemal University, Tekirdağ, Turkey* |
| 16.40  | IL                | Is the PRECICE® nail better than the Intramedullary Skeletal Kinetic Distractor (ISKD®)? - A comparative cohort study | Lee DH., Ryu KJ., Kim HW., Hwang JH., Park H.  
*Severance Children’s Hospital, Yonsei University College of Medicine, Orthopaedic department, Seoul, South Korea* |

### Humerus

**Moderators:** tba

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| 16.50  | IL                | Treating humeral fractures. Current strategies | Verbruggen J.  
*Department of Surgery, division of Trauma surgery, Maastricht University Medical Center, Maastricht, The Netherlands* |
| 17.02  | IL                | Proximal humerus fracture treated with transdeltoid lateral (MIPO) approach | Baltov A., Enchev D., Rashkov M.  
*Department of Orthopedics and Trauma Surgery, University Emergency Hospital “Pirogov”, Sofia, Bulgaria* |
| 17.12  | IL                | Interest of fibula allograft in the management of 4-parts proximal humerus fracture? | Levy G., Putineanu D., Tribak K., Cornu O.  
*Orthopaedic and Trauma department, University Hospital St-Luc, Université Catholique de Louvain, Brussels, Belgium* |
| 17.22  | IL                | Our experience with humeral nailing | Simion F., Schiopu D., Illés T., Reynders P.  
*Department Orthopedics & Traumatology, University Hospitals Brussels, Brussels, Belgium* |
| 17.32  | IL                | Temporary glenohumeral fixation in select cases of instable shoulder dislocation: a viable option? | Vercruysse G., De Wachter G.  
*Department of Orthopedics, Jessa Ziekenhuis, Hasselt, Belgium* |
17.42 Lateral plate-osteosynthesis in the treatment of spiral diaphyseal humeral fractures with a proximal component through an extended deltoid-split approach
Stevens N.\textsuperscript{1}, Putzeys G.\textsuperscript{2}
\textsuperscript{1}Orthopedics and traumatology, UZ Gent, Gent, Belgium; \textsuperscript{2}Department of Orthopaedic Surgery, AZ Groeninge Kortrijk, Kortrijk, Belgium

17.52 Objective outcome measures in distal radius fractures treated with a volar locking plate: are they out of sync with patients?
Ezzat A.\textsuperscript{1}, Fielding S.\textsuperscript{2}, Carnegie C.A.\textsuperscript{1}, Johnstone A.J.\textsuperscript{1}
\textsuperscript{1}Department of Trauma Orthopaedics, Aberdeen Royal Infirmary, Aberdeen, UK; \textsuperscript{2}Department of medical statistics, University of Aberdeen, Aberdeen, UK

18.02 Closing the gap: a novel technique for humeral shaft nonunions using cup in cone reamers
Departement of Orthopaedic Surgery, Duke University, Durham, NC, United States

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16.00 IL Management of severe pelvic trauma
Krettek C.
\textit{Trauma Department, Hannover Medical School, Hannover, Germany}

16.12 Custom-made lateral femoral hemiarthroplasty for traumatic bone loss: a case report
Stuyts B.\textsuperscript{1}, Peersman G.\textsuperscript{2}, Thienpont E.\textsuperscript{3}, Van den Eeden E.\textsuperscript{1}, Van der Bracht H.\textsuperscript{1}
\textsuperscript{1}Sint-Augustinus Hospital, Wilrijk, Belgium; \textsuperscript{2}ZNA Stuivenberg, Antwerp, Belgium; \textsuperscript{3}University Hospital Saint Luc, Brussels, Belgium

16.22 The effect of computer-assisted surgery training in the placement of iliosacral screws
Hubbard E.W.\textsuperscript{1}, Templeton E.\textsuperscript{1}, Eward W.C.\textsuperscript{1}, Green C.\textsuperscript{1}, Nousiaainen M.T.\textsuperscript{2}, Zura R.D.\textsuperscript{1}
\textsuperscript{1}Duke University Medical Center, Department of Orthopaedic Surgery, Durham, North Carolina, United States; \textsuperscript{2}Holland Orthopaedic and Arthritic Center, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

16.32 Anterior subcutaneous internal plate fixation as part of a 360° degrees treatment of unstable pelvic injuries
Cootjans K., Putzeys G.
Department of Orthopaedic Surgery, AZ Groeninge Kortrijk, Kortrijk, Belgium

16.42 Mortality-analysis on a 5 year period registration (2009-2013) in the German Pelvic Injury Register: comparison between a Belgian hospital and a pool of German hospitals
Putzeys G.\textsuperscript{1}, Stuby F.\textsuperscript{2}, Aghayev E.\textsuperscript{3}
\textsuperscript{1}Department of Orthopaedic Surgery, AZ Groeninge Kortrijk, Kortrijk, Belgium; \textsuperscript{2}BG Trauma Center, Eberhard Karls University Hospital, Tuebingen, Germany; \textsuperscript{3}Institute for Evaluative Research in Medicine, University of Bern, Switzerland

16.52 Operative treatment of acetabular fractures in the elderly in presence of osteoporotic bone
Molenaers B.\textsuperscript{1}, Vanlommel J.\textsuperscript{1}, Vanderschot P.\textsuperscript{1,2}
\textsuperscript{1}Department of orthopaedic surgery; \textsuperscript{2}Department of traumatology, UZ Leuven, Leuven, Belgium
Current imaging guidelines in evaluating periprosthetic complications
Hendrickx J.¹, Vanrusselt J.², Claikens B.¹
¹Department of Radiology, General Hospital Damiaan, Ostend, Belgium; ²Department of Radiology, University Hospital Leuven, Leuven, Belgium

Pipkin fractures and dislocations: treatment and long-term results
Enchev D., Baltov A., Rashkov M., Markov M.
Department of orthopedic and traumatology, UMHATEM "N.I.Pirogov" Sofia, Bulgaria

Fluoroscopic-assisted percutaneous anterior column screw in lateral position: a surgical technique
Zamora R., Polley N.W., Seligson D.
Department of Orthopaedic Surgery, University of Louisville, Louisville, KY United States

Implant augmentation of the proximal femur
Sermon A.
Department of Traumatology, University Hospitals Gasthuisberg, Leuven, and Department of Development and Regeneration, KU Leuven, Leuven, Belgium

High tech trauma: current modalities and navigation techniques
Varga E.
Department of Trauma Surgery, University of Szeged, Albert Szent-Györgyi Clinical Center, Szeged, Hungary

The iliopubic plate for anterior pelvic fractures
Gerich T.
Traumatologie des Centre Hospitalier de Luxembourg, Luxembourg, Luxembourg

Chest wall fixation. Is it advantageous?
Varga E.
Department of Trauma Surgery, University of Szeged, Albert Szent-Györgyi Clinical Center, Szeged, Hungary
08.30  IL  Why we should not always nail hip fractures
Chesser T.
Trauma and Orthopaedic Department, North Bristol NHS Trust, Bristol, United Kingdom

08.42  Factors affecting postoperative death in patients above 65 years-old who were operated for hip fracture
Ocalan E., Ozkayin N., Aktuglu K.
Department of Orthopedic and Traumatology, Ege University, Izmir, Turkey

08.52  In comparison to posterolateral approach, does direct anterior approach on orthopaedic table reduce the dislocation rate after bipolar hemiarthroplasty for neck fracture?
Jayankura M., Bloemers N., Koulischer S., Clegg E., Matrice C., Schuind F.
Department of Orthopaedic Surgery and Traumatology, Erasme University Hospital, Brussels, Belgium

09.02  Clinical results for surgical treatment of femoral neck fracture with Targon FN
Takigawa N., Yasui K., Eshiro H., Adachi S., Fukai A., Komatsu T., Kinoshita M.
Department of Orthopedics, Nishinomiya Kyoritsu Neurosurgical Hospital, Nishinomiya, Hyogo, Japan

09.12  Rotational malalignment of the femur after intramedullary nailing in femoral shaft fractures - Incidence and long term functional effects
Savvidis M.1, Konstandinidis A.1, Koutroumanidis K.2, Bisbinas I.1, Georgiannos D.1, Kapoutsis D.1, Gkouvas G.1
11st Orthopaedic Department and 2Radiology Department, 424 G.M.H. Thessaloniki, Greece

09.22  A new surgical solution to prevent contralateral hip fracture: feasibility and safety
Vienney C.1, Reynders P.2, Rigal J.1, Demezon J.C.1, Gunzburg R.3
1Hopital Xavier Arnozan, PTIB, Hyprevention; Pessac, France; 2Department Orthopedics & Traumatology, University Hospitals Brussels, Brussels, Belgium; 3Department Orthopedics & Traumatology, Edith Cavell Clinic, Brussels, Belgium

09.32  Quartets of elastic stable intramedullary nails in pediatric femur fractures
Nickel B., Blizzard D.J., Willimon S.C., Busch M.T.
Department of Orthopaedic Surgery, Duke University Medical Center, Durham, North Carolina, United States

09.42  IL  Supracondylar Femur fractures, salvage tips & tricks
Krettek C.
Trauma Department, Hannover Medical School, Hannover, Germany

09.57  IL  Arthroplasty in Proximal Humerus Fractures
Nijs S.
Department of Trauma Surgery and Department Development and Regeneration, University Hospitals Leuven, Leuven, Belgium

10.15-10.30  Coffee Break & Poster Viewing
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<tr>
<td>08.30</td>
<td>Intramedullary osteosynthesis of ankle fractures with a straight locked nail: XS Nail</td>
</tr>
</tbody>
</table>
|       | Friedl W., Gehr J.  
|       | 1 Klinikum Aschaffenburg, Unfallchirurgie, Orthopädie und Handchirurgie, Aschaffenburg, Germany; 2 Metropol Medical Center, Centre for Orthopaedics, Neurosurgery and Trauma Surgery (ONTC), Nürnberg, Germany|
| 08.42 | Predictors of failure for delayed surgical treatment of closed ankle fracture-dislocations |
|       | Matson A.P., Zura R.D.  
|       | Duke University Medical Center, Department of Orthopaedic Surgery, Durham, North Carolina, United States|
| 08.52 | Primary tibio-talar-calcaneal arthrodesis with intramedullary nailing for severe non-reconstructible tibial pilon fractures |
|       | Putineanu D., Coquay J.  
|       | Orthopaedic and Trauma Department, Cliniques universitaires Saint-Luc, Université catholique de Louvain, Brussels, Belgium|
| 09.02 | The measurement and clinical significance of syndesmotic reduction after operative fixation of rotational ankle fractures |
|       | 1 Orthopaedic Surgery, Hospital for Special Surgery, New York, NY, USA; 2 University of Texas, Houston, TX, USA|
| 09.12 | Gait analysis and functional outcome after calcaneal fractures |
|       | Leenstra B., van Hoeve S., de Vos J., Verbruggen J.P.A.M., Willems P., Meijer K., Poeze M.  
|       | 1 Department of Surgery, division of Trauma surgery, 2 Department of Movement Sciences, Maastricht University Medical Center, Maastricht, The Netherlands; 3 NUTRIM, School for Nutrition, Toxicology and Metabolism, Maastricht University, Maastricht, The Netherlands|
| 09.22 | 3D imaging and calcaneus fracture osteosynthesis |
|       | Misselyn D.  
|       | Department of Traumatology, UZ Leuven, Leuven, Belgium|
| 09.32 | Number and type of fractures on CT imaging is not a predictor for stability in Lisfranc injuries |
|       | Stollenwerck G.A.N.L., Poeze M.  
|       | Department of surgery and trauma surgery, Maastricht University Medical Center, Maastricht, The Netherlands|
| 09.42 | Nailing as a new option in calcaneal fracture treatment |
|       | 1 Department of Polytrauma, Sklifosofsky Clinical and Research institute, Moscow, Russia; 2 Ural Scientific Research Institute of Traumatology and Orthopaedics, Ekaterinburg, Russia|
| 09.52 | Absorbable polydioxanone suture provides fewer wound complications in acute tendo-achilles rupture repair |
|       | Baig M.N., Din R.  
|       | Department of Orthopaedics, Kerry General Hospital, Tralee, Ireland|

10.05-10.30 Coffee Break & Poster Viewing
### Auditorium Albert

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<tr>
<td><strong>10.30</strong></td>
<td>The development of intramedullary nailing in the United States</td>
<td>Seligson D.</td>
<td>Department of Orthopedics, University of Louisville, Louisville, KY, United States</td>
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<td><strong>10.50</strong></td>
<td>Transition Time</td>
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<tr>
<td><strong>10.50-13.00</strong></td>
<td>Pelvis-Acetabulum</td>
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<td><strong>11.05</strong></td>
<td>Acute management of the haemodynamically unstable pelvic ring injury patient</td>
<td>Wanner G.</td>
<td>Department of Surgery, Division of Trauma Surgery, University Hospital Zurich, Zurich, Switzerland</td>
</tr>
<tr>
<td><strong>11.20</strong></td>
<td>Surgical options in pelvic ring insufficiency fractures</td>
<td>Rommens P.</td>
<td>Department of Orthopaedics and Traumatology, Johannes Gutenberg University of Mainz, Mainz, Germany</td>
</tr>
<tr>
<td><strong>11.35</strong></td>
<td>Late results after acute pelvic ring dislocations</td>
<td>Holstein J.</td>
<td>Department of Trauma, Hand &amp; Reconstructive Surgery, University of Saarland, Homburg, Saar, Germany</td>
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<td><strong>11.50</strong></td>
<td>Discussion</td>
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<tr>
<td><strong>11.55</strong></td>
<td>Acetabulum fractures in the elderly</td>
<td>Peter R.</td>
<td>Division of Orthopaedics and Traumatology, Geneva University Hospitals, Faculty of Medicine, University of Geneva, Geneva, Switzerland</td>
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<tr>
<td><strong>12.10</strong></td>
<td>New implants for acetabulum fracture fixation</td>
<td>Lehmann W.</td>
<td>Department of Trauma, Hand and Reconstructive Surgery, University Medical Center Hamburg-Eppendorf, Hamburg, Germany</td>
</tr>
<tr>
<td><strong>12.25</strong></td>
<td>Periprothetic acetabulum fractures</td>
<td>Jayankura M.</td>
<td>Department of Orthopaedic surgery and Traumatology, Erasme University Hospital, Brussels, Belgium</td>
</tr>
<tr>
<td><strong>12.40</strong></td>
<td>What's new in acetabulum fracture fixation</td>
<td>Tosounidis T.</td>
<td>Leeds General Infirmary, Leeds, UK</td>
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<td><strong>12.55</strong></td>
<td>Discussion</td>
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<tr>
<td><strong>13.00-14.00</strong></td>
<td>Lunch - Exhibition</td>
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</table>
10.50 Characteristics and management of orthopaedic trauma patients in Médecins Sans Frontières trauma centres in Afghanistan and Haiti
SAGE Unit, Medical Department - MSF-OCB

10.57 Treatment and outcomes of periprosthetic fractures after total knee arthroplasty multicentre retrospective analysis of 56 cases
Kyriakidis T.¹, Tsiridis E.², Zorman D.¹
¹C.H.U. Tivoli, Orthopaedic Department, La Louvière, Belgium; ²Academic Orthopaedic Unit “Papageorgiou” General Hospital, Aristotle University Medical School, Thessaloniki, Hellas

11.04 Periprosthetic fractures of the femur - Shift of the treatment paradigm?
Chelnokov A.¹, Piven I.¹, Shlykov I.¹, Piastopulo K.¹, Semenistyy A.²
¹Ural Scientific Research Institute of Traumatology and Orthopaedics, Ekaterinburg, Russia; ²Hospital N 13, Moscow, Russia

11.11 Atypical periprosthetic subtrochanteric femur fractures during bisphonates therapy. A case report
Baig M.N., Rice J.
Department of Orthopaedics, Kerry General Hospital, Tralee, Ireland

11.18 Fixator-assisted nailing with dome-osteotomy enables early full weight bearing in corrective Osteotomy for proximal tibial valgus deformity
Lee DH., Ryu KJ., Kim HW., Hwang JH.
Severance Children's Hospital, Yonsei University College of Medicine, Orthopaedic department, Seoul, South Korea

11.25 Salvage procedures of distal tibiofibular fractures by using a retrograde Expert Tibia Nail
Hengsens R., Govaert G.A.M.
Department of Surgery, subdivision of Trauma Surgery, University Medical Centre Groningen (UMCG), Groningen, The Netherlands

11.32 Suprapatellar nailing of the tibia and the use of a dedicated trocar sleeve system as a way to avoid cartilage damage in the knee
Vandesande W., Feyen J., Meeuwssen E., Smits P, Iudicello A., Feyen H.
Department of Orthopaedic and Trauma Surgery, AZ St Dimna Geel, Geel, Belgium

11.39 A new device for intraoperative bending of intramedullary nails
Eilers T., Wolf F., Fürmetz J., Thaller P.H.
3D-Surgery, Department of Trauma Surgery, Ludwig-Maximilians Universitaet, Munich, Germany

11.46 Intraosseous impacted steel sleeves for a minimally invasive approach to the medullar cavity
Wolf F., Bösler S., Thaller P.H.
3D-Surgery, Department of Trauma Surgery, Ludwig-Maximilians University, Munich, Germany

11.53 Decreased bone density in geriatric patients does not lead to inferior outcomes after open reduction and internal fixation of tibial plateau fractures
Orthopaedic Surgery, Hospital for Special Surgery, New York, United States
12.00  Lengthening with one PRECICE nail more than its capacity
Karakoyun Ö., Erol M.F., Küşükkaya M.
Department of Orthopedics and Traumatology, Namik Kemal University, Tekirdağ, Turkey

12.07  Pathologic recurrent fractures on bone cysts in children: a new minimally invasive approach
Meirlaen S.¹, Glorion Ch.², Cornu O.¹, Docquier P.L.¹
¹Orthopaedic and Trauma Department, Cliniques universitaires Saint-Luc, Université catholique de Louvain, Brussels, Belgium; ²Orthopaedic Department, Hôpital universitaire Necker, Paris, France

12.14  New semi-automatic detection method of joint penetration during triple-screw internal fixation for femoral neck fractures
Englebert A.¹, Cornu O.¹,², Putineanu D.², Tribak K.², Cartiaux O.¹
¹Computer Assisted and Robotic Surgery, Institut de recherche expérimentale et clinique, Université catholique de Louvain, Brussels, Belgium; ²Service d’orthopédie et de traumatologie de l’appareil locomoteur, Cliniques universitaires Saint-Luc, Brussels, Belgium

12.21  Superior outcomes after patella fracture fixation with a novel cage plate construct: a prospective cohort study
Warner S.J.¹, Lazaro L.E.¹, Thacher R.R.², Sauro G.², Garner M.R.¹, Helfet D.L.¹, Lorich D.G.¹,²
¹Orthopaedic Surgery, Hospital for Special Surgery, New York, NY, USA; ²New York Presbyterian Hospital - Cornell, New York, NY, USA

12.28  Local bone density influences clinical outcomes after ankle fracture fixation
Orthopaedic Surgery, Hospital for Special Surgery, New York, NY, USA

12.35  Real-time intramuscular pH measurements: overcoming the limitations of intracompartmental pressure measurements in diagnosing acute compartment syndrome
Johnstone A.J., Elliott K.G.B.
Department of Trauma & Orthopaedics, Aberdeen Royal Infirmary, Aberdeen, Scotland, UK

12.42  Subcutaneous mini-invasive fasciotomy in acute lower limb compartment syndrome: a cadaveric study
Vandergugten S., Zemmour L., Lengelé B., Nyssen-Behets C.
Pôle de Morphologie, Institut de Recherche expérimentale et Clinique, Université catholique de Louvain, Brussels, Belgium

12.49  Systematic nail removal for mild discomfort: is it acceptable?
Vanden Bulcke D., Tribak K., Putineanu D., Cornu O.
Orthopaedic and Trauma Department, Cliniques universitaires Saint-Luc, Université catholique de Louvain, Brussels, Belgium

13.00-14.00  Lunch
Exhibition
### 14.00-16.00  
Femur-Proximal  
Moderators:  

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| 14.00 | IL      | **Keynote Lecture**  
Proximal femur fractures; what is evidence  
Rommens P.  
Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany | | |
| 14.25 | IL      | **Stabilization of femoral neck fractures with the Targon FN**  
Gruszka D.  
Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany | | |
| 14.50 | IL      | **Do we still need the Regazzoni's DHS plate**  
Anthonissen J.  
Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany | | |
| 15.05 | IL      | **Reversed obliquity fractures; value of cerclage**  
Hofmann A.  
Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany | | |
| 15.20 | IL      | **Nailing of subtrochanteric fractures**  
Pairon P.  
Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany | | |
| 15.32 | IL      | **Influence of rotation and micromovement stable fixation on the failure rate of medial femur neck fracture osteosynthesis**  
Friedl W.  
Klinikum Aschaffenburg, Unfallchirurgie, Orthopädie und Handchirurgie, Aschaffenburg, Germany | | |
| 15.44 | IL      | **Coexisting glenohumeral arthritis increases proximal humerus fracture nonunion after nonsurgical treatment**  
Nickel B.T., Klement M.R., Bala A., Zura R., Garrigues G.E.  
Departement of Orthopaedic Surgery, Duke University, Durham, NC, United States | | |

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### 16.00-16.30  
Coffee Break & Poster Viewing  
Auditorium Albert

### 16.30-17.45  
Femur-Proximal  
Moderators:  

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| 16.30 | IL      | **The role of plastic screws in intramedullary nailing of long bones**  
Onyekwelu I., Falls T., Seligson D.  
Department of Orthopedics, University of Louisville, Louisville, KY, United States | | |
| 16.40 | IL      | **Intramedullary fixation with a third generation nail in complex fractures in proximal femur**  
Tzachev N., Ivanov N., Hariskov N., Iotov A.  
Department Orthopaedic and Trauma, Military Hospital, Sofia, Bulgaria | | |
16.50  Autodynamic nailing  
Seligson D., Polley N., Zamora R., Craig Wright C., Maniar H.  
Department of Orthopedics, University of Louisville, Louisville, KY, United States

17.02  Results of distal femoral fracture with plate osteosynthesis  
Aktuglu K., Colak T., Ozkayin N  
Department of Orthopedic And Traumatology, Ege University, Izmir, Turkey

17.14  Double plating for supracondylar femoral fractures  
De Roo K., Oosterlinck D., Putzeys G.  
1Department of Orthopaedic Surgery & Traumatology, University Hospital Ghent, Gent, Belgium; 2Department of Orthopaedic Surgery & Traumatology, AZ Groeninge Kortrijk, Kortrijk, Belgium

17.24  Complications of intramedullary nailing of trochanteric fractures using the Stryker® Gamma3 TM trochanteric nail. One-year experience  
Cherchi L., Ehlinger M., Taglang G., Adam P., Bonnomet F.  
Service de Chirurgie Orthopédique et Traumatologique, Strasbourg University Hospitals, Hôpital de Hautepierre, Strasbourg, France

17.34  IlluminOss® is a new percutaneous intramedullary rod osteosynthesis using a polymerized monomer – A case series on patients with wrist fractures  
Klitsie P.J., Vegt P.A.  
Department of Surgery, Albert Schweitzer hospital, Dordrecht, The Netherlands

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**17.45-18.00** Adjourn  
GKS prize of best oral paper

**18.00-19.00** General Assembly GKS
**BOTA Symposium 2015**  
**Friday 11 September 2015**

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| 14.00-16.00 | BOTA Symposium | Trauma Systems in the EU  
Moderators: tba |

**Trauma Registries**

14.00  
**TARN**  
Edwards A.  
*Institute of Population Health, Manchester Medical Academic Health Sciences Centre, University of Manchester, Salford, UK*

14.12  
**DGU trauma registry**  
Bouillon B.  
*Department of Trauma and Orthopedic Surgery, Cologne-Merheim Medical Center (CMMC), Witten/Herdecke University, Witten, Germany*

14.24  
**Pelvic registry**  
Stuby F.  
*BG Trauma Center, Eberhard Karls University Hospital, Tuebingen, Germany*

14.36  
**Healthdata.be**  
Van Bussel J.  
*Department healthdata.be, Belgian Scientific Institute of Public Health, Brussels, Belgium*

**Trauma Systems**

14.48  
**Germany**  
Rommens P.  
*Department of Orthopaedics and Traumatology, University Medical Center, Johannes Gutenberg University of Mainz, Mainz, Germany*

15.00  
**United Kingdom**  
Chesser T.  
*Trauma and Orthopaedic Department, North Bristol NHS Trust, Bristol, United Kingdom*

15.12  
**The Netherlands**  
Verhofstad M.  
*Trauma Research Unit, Department of Surgery, Erasmus Medical Center Rotterdam, Rotterdam, The Netherlands*

15.24  
**France**  
Cesareo E.  
*URMARS, CHU de Lyon, Groupement Hospitalier Edouard Herriot. Hospices Civils de Lyon, Lyon, France*

15.36  
**Discussion**

**16.00-16.30**  
**Coffee Break**
16.30 Simulation in training of medicine
I. Van Herzeele
President of the Dutch Society for Simulation in Healthcare and Department of Surgery, Ghent University Hospital, Ghent, Belgium

16.42 Sinman training: first experiences in simulating the trauma patient
F. Pitance
Medical Director Prehospital Trauma Life Support Belgium and Department Anaesthesia and Intensive Care Medicine, CHR de la Citadelle Liège, Liège, Belgium

16.54 ATLS
M. Thoma
Department of Digestive Surgery, Cliniques Universitaires Saint-Luc, Université Catholique de Louvain, Brussels, Belgium

17.06 ETC
P. De Paepe
Department of Emergency Medicine, Ghent University Hospital, Ghent, Belgium

17.18 ICUC a new online teaching platform
tba

17.30 AO lifelong learning
tba

17.42 Teaching generation Y
S. Nijs
Department of Trauma Surgery and Department Development and Regeneration, University Hospitals Leuven, Leuven, Belgium

17.54 Discussion