08:30 Welcome address J Hilborn

Drug delivery & bioactive components, Chair: S Cool, Co-chair: A Hoess
09:00 Invited talk: The paracrine activity of implanted mesenchimal stem cells: a new regenerative medicine approach R Cancetta
09:30 Gallium-doped calcium phosphates as a new approach for the local delivery of antiresorptive species B Bujoli
09:45 Injectable hyaluronic acid hydrogel for bone tissue engineering O P Varghese

10:00 Coffee

Drug delivery & bioactive components continued, Chair: J Hilborn, Co-chair: O P Varghese
10:30 Invited talk: Lowering the Efficacious Dose of BMP-2 using Heparan Glycosaminoglycans S Cool
11:00 Antibiotic-loaded calcium phosphate cements and foams: Relationship between porosity and release behaviour D Pastorino
11:15 Injectable, Settable Polymer/β-TCP Bone Grafts for Delivery of rhBMP-2 S Guelcher

11:30 GRIBOI General Assembly

12:00 Lunch with posters 1

Bone substitution, stabilization and regeneration, Chair: J Chang, Co-chair: X Yang
13:45 Invited talk: Functionalized calcium phosphates: The role of crystal structure E Boanini
14:15 Degradation & characterisation of new biphasic calcium phosphate cements S Gallinetti
14:30 Study on silicate bioceramics J Chang
14:45 Invited talk: To be announced S McCullen
15:15 A New way of Forming Calcium Phosphate Cements Using Bioactive Glasses as Reactive Precursors, Part 1: Theory and Background Studies R Hill
15:30 Ultrasoundation for the delivery of the hydraulic calcium-phosphate paste G Baroud

15:45 Coffee

Clinical session 1, Chair: S Larsson, Co-chair: M Montazerolghaem
16:15 Invited talk: Bioactivity and cytotoxic tests are antagonist M Bohner
16:45 Self hardening Macroporous Biphasic Calcium Phosphate bone void filler for bone reconstruction. Animal study and Human data G Daculsi
17:00 Invited talk: The use of hydrogel for craniofacial bone repair in humans T Engstrand
17:30 New Palliative Intervention in Painful Metastatic Bone Disease: The OsteoCool™ System J Woo
17:45 END of talks day 1

19:00 Dinner
Clinical session 2, Chair: Z Werner, Co-chair: G Hulsart-Billström

08:30 Invited talk: Pathogenesis and treatment of periprosthetic joint infection Z Werner
09:00 Combination Percutaneous Threaded Screw and Methyl Methacrylate Stabilization of Cancer and Post Radiation Induced Pelvic Fractures S Tutton
09:15 Vertebral Augmentation with targeted cement deposition technique after channels creation using a nitinol wire, the “Blazer” system S Tutton
09:30 Comparison Between Radiofrequency Targeted Vertebral Augmentation, Balloon Kyphoplasty and Vertebroplasty M Lorio
09:45 Early experience with a new intravertebral PEEK / biomaterial implant S Tutton

09:00 Coffee

Sponsored Workshops, Chair: P Procter, Co-chair: D Ossipov
10:30 CERAMENT workshop (organized by Bonesupport) The science behind it, clinical use and hands on.
11:30 Vexim workshop
   11:30: Height restoration and maintenance using the SpineJack procedure A Krüger
   11:40: Measuring anatomical restoration of vertebral compression fractures DC Noriega
11:50 Medtronic workshop
   Biomechanics of a new Inflatable Bone Tamp and First Case series M Kotrba

12:10 Lunch with posters 2

Biomechanics, Chair: S Ferguson, Co-chair: A López
14:00 Invited talk: Biomechanics and mechanobiology in biomaterials research and tissue regeneration R Müller
14:30 Screw Augmentation using CaP Injectable Bone Cement C J Brown
14:45 Injectable and flexible tricalcium phosphate/biopolymer composites for bone regeneration Y Maazouz
15:00 Vertebroplasty: Dependency of the Subsequent Fracture Risk Reduction on the Injection Location R Widmer

15:15 Coffee

Biomechanics continued, Chair: R Müller, Co-chair: C Öhman
15:45 Invited talk: In Silico or In Vitro for Augmentation Studies: How, Why and When? S Ferguson
16:15 Development of a new method for imaging the bone-cement interface under load for FE model validation S Sikora
16:30 A validated finite element study comparing the use of calcium phosphate and PMMA cements for the augmentation of traumatically fractured vertebrae S Tarsuslugil
16:45 Effect of Cement Augmentation technique on the Fatigue and Pullout Strength of Pedicle Screws R Kueny
17:00 END of talks day 2

17:15-19:15 Workshops with snacks
   Clinical, J Hirsch, T Engstrand, and S Larsson, Room: 4003
   SpineFX - The role of cadaveric models in pre-clinical testing, S Ferguson, Room: 4004
Future trends, Chair: H Engqvist, Co-chair: S Kootala

08:30 Invited talk: Self-Assembling Bioactive Matrices for Tissue Regeneration S Stupp

09:00 Vascular network formation in tissue engineered constructs using endothelial-like-cells derived from mesenchymal stromal cells K Janeczek Portalska

09:15 Intraossseous forming implants for bone metastases treatment through locally combined hyperthermia and chemotherapy M Mohamed

09:30 A New way of Forming Calcium Phosphate Cements Using Bioactive Glasses as Reactive Precursors: Part 2 Experimental Cements N W Kent

09:45 Coffee

Future trends continued, Chair: S Stupp, Co-chair: O Podiyan

10:15 Invited talk: Enhancing screw fixation in poor quality cancellous bone: Present and future options P Procter

10:45 CFD-Simulation of Percutaneous Vertebroplasty S Kolmeder

11:15 Radiopaque Magnesium Phosphate Cements G Mestres

11:30 Final remarks and awards H Engqvist

12:30 Lunch (bag)