



**SERVIZIO SANITARIO REGIONALE  
EMILIA - ROMAGNA**  
Istituto Ortopedico Rizzoli di Bologna  
Istituto di Ricovero e Cura a Carattere Scientifico



# III INTERNATIONAL SOCIETY OF ORTHOPAEDIC CENTERS MEETING

***FABIO CATANI, MD  
SANDRO GIANNINI, MD  
ARMANDO GIUNTI, MD  
MAURILIO MARCACCI, MD***

**BOLOGNA**  
*April 29 - May 1, 2010*

***Istituto Ortopedico Rizzoli / Italy***

***Dear friends and colleagues,***

*It is a real honor for us to host the III Meeting of the International Society of Orthopaedic Centers (ISOC), this time at the Istituto Ortopedico Rizzoli – Bologna, between the 29th of April and the 1st of May 2010.*

*This long-awaited event follows the 1st meeting at the Hospital for Special Surgery in New York in May 2007 and the 2nd meeting at the Schulthess Klinik in October 2008.*

*Since the original foundation of the ISOC in 2006 the number of members has continued to grow. This year, thirteen members worldwide, including the three new members, are attending the meeting.*

*At the previous annual meetings, valuable progress has been made to identify ideas and cutting-edge practices potentially able to address the current challenges for enhancing patient care, research and education development, particularly for the large-volume hospitals as we are. This year we will have a Scientific Session with 26 papers related to Basic Science, Joint Arthroplasty, Spine, Ankle and CPU.*

*Nowadays the most challenging issue seems to be the identification of optimal compromising solutions between best possible and most cost-effective treatments. We are continuously working on improving effective patient care with innovating clinical research. At the same time economic boundary conditions cannot be neglected.*

*According to what the Board of Directors decided, a CEO's Session is also arranged during the meeting, to get their direct contributions to the discussion about current challenges in running large-volume Hospitals.*

*The incoming meeting is aimed at developing further the present excellent and constructive framework, to find together solutions for the challenges in research and education, with the ultimate goal of improving patient care.*

*What we learned in the past is that science and friendship are closely linked. The Scientific Session and the Social Program are both important to learn more from each other. Ferrari automotive factory tour, classic music, museums, and also good food will give us additional opportunities to fulfill our scopes!*

***Fabio Catani***

***Sandro Giannini***

***Maurilio Marcacci***

***Armando Giunti***

# *Member Centers*

*Campbell Clinic | USA*

*Clinica Alemana | Chile*

*Endo Klinik | Germany*

*Hospital for Special Surgery | USA*

*Instituto Nacional De Rehabilitacion | Mexico*

*Istituto Ortopedico Galeazzi | Italy*

*Istituto Ortopedico Rizzoli/Italy*

*Lund University Hospital | Sweden*

*Mayo Clinic/USA*

*Royal National Orthopaedic Hospital | United Kingdom*

*Schulthess Klinik | Switzerland*

*Sint Maartenskliniek | The Netherlands*

*University Hospitals Leuven | Belgium*



# *ISOC Centers - CEO Attendees*



## *Campbell Clinic*

*Paige LeMay, MHA*

## *Clinica Alemana*

*Alejandro de Marinis, MD*

## *Endo Klinik*

*Sibylle Stauch-Eckmann*

## *Hospital for Special Surgery*

*Louis Shapiro, FACHE*

## *Instituto Nacional de Rehabilitacion*

*Luis Ibarra, MD*

*Maricela Verdejo, PhD*

## *Istituto Ortopedico Galeazzi*

*Elena Bottinelli*

## *Istituto Ortopedico Rizzoli*

*Giovanni Baldi, MD*

## *Lund University Hospital*

*Pelle Gustafson, MD, PhD*

## *Mayo Clinic*

*Michael Rock, MD*

## *Schulthess Klinik*

*Matthias Spielmann*

## *Sint Maartenskliniek*

*Drs Peter Hoppener*

# *ISOC Centers - Physician Attendees*

## *Clinica Alemana*

Luis Bahamonde, MD  
Claudio Mella, MD  
Luis Moya, MD  
Felipe Toro, MD

## *Endo Klinik*

Thorsten Gehrke, MD, PhD  
Daniel Kendoff, MD  
Wolfgang Klausner, MD

## *Hospital for Special Surgery*

Mathias P. Bostrom, MD  
Matthew E. Cunningham, MD, PhD  
Jo A. Hannafin, MD, PhD  
Ilsa Klinghoffer, MPA  
Andrew Pearle, MD  
Laura Robbins, DSW  
Thomas P. Sculco, MD  
Timothy Wright, PhD

## *Instituto Nacional de Rehabilitacion*

Jose Clemente Ibarra, MD  
Baron Zarate, MD

## *Istituto Ortopedico Galeazzi*

Riccardo Accetta, MD  
Giuseppe Banfi, MD, PhD  
Walter Pascale, MD  
Valerio Sansone, MD

## *Istituto Ortopedico Gaetano Pini*

Giuseppe Mineo, MD

## *Istituto Ortopedico Rizzoli*

Fabio Catani, MD  
Sandro Giannini, MD  
Armando Giunti, MD  
Maurilio Marcacci, MD

## *Lund University Hospital*

Magnus Eneroth, MD  
Lars Lidgren, MD, PhD  
Henrik Lauge-Pedersen, MD, PhD

## *Royal National Orthopaedic Hospital*

Timothy Briggs, MD, FRCS

## *Schulthess Klinik*

Jorg Goldhahn, MD  
Hans-Kasper Schwyzer, MD  
Beat Simmen, MD  
Patrick Sussmann, MD

## *Sint Maartenskliniek*

G.G. van Hellemond, MD  
Ronald J. van Heerwaarden, MD  
Marinus de Kleuver, MD  
Bart Swierstra, MD

## *Universisty Hospitals Leuven*

Johan Bellemans, MD, PhD  
Giovanni Matricali, MD

# April 29, 2010

ISOC

## Grand Hotel Baglioni : Sala Europa

2.30 pm - 4.30 pm Board of Directors Meeting  
4.30 pm - 4.45 pm **Break**  
4.45 pm - 6.00 pm Members Business Meeting

CEO

## Grand Hotel Baglioni : Sala Domenichino

### Opening session - Introduction

3.00 pm - 3.30 pm Welcome: Introduction of CEOs  
(Louis Shapiro, Matthias Spielmann)  
3.30 pm - 3.50 pm Istituto Ortopedico Rizzoli (Italy, Bologna)  
3.50 pm - 4.10 pm Clinica Alemana (Chile)  
4.10 pm - 4.30 pm Endo Klinik (Germany)  
4.30 pm - 4.45 pm **Break**  
4.45 pm - 5.05 pm Hospital for Special Surgery (USA)  
5.05 pm - 5.25 pm Instituto Nacional De Rehabilitacion (Mexico)  
5.25 pm - 5.45 pm Istituto Ortopedico Galeazzi (Italy, Milan)

6.30 pm - 7.00 pm **Welcome**  
7.00 pm **Cocktails**  
8.00 pm **Piano Concert/Dinner Restaurant "I Carracci"**  
**Grand Hotel Baglioni**

# April 30, 2010

ISOC

*Istituto Ortopedico Rizzoli : Sala Vasari*

*Scientific Session (8.00 am - 1.00 pm)*

***The Future of Specialist Orthopaedic Hospitals in the U.K.***

*Timothy Briggs, MD, FRCS, Royal National Orthopaedic Hospital*

## ***Basic Science***

*Moderators : Wolfgang Klauser, MD, Timothy Briggs, MD, FRCS*

***Markers of Thrombin Generation During Resurfacing and Total Hip Arthroplasty***

*Thomas P. Sculco, MD, Ed Su, MD, Nikos Chatzoudis, MD, Vasileios Sioros, MD, George Go, BS, Nigel E. Sharrock, BMedSci, MB, ChB, Hospital for Special Surgery*

***Effects of Platelet Rich Plasma in Hamstring Anterior Cruciate Ligament Reconstruction***

*Dr. Figueroa, Clinica Alemana*

***New Oral Antithrombotics in Elective THA and TKA Clinical Adjustments, Acceptance and Comparison to Prior Medications***

*D.Kendoff, T. Gehrke, W. Klauser, EndoKlinik*

***The Role of Mechanical Environment in Soft Tissue Healing***

*Jo A. Hannafin, MD, PhD, Hospital for Special Surgery*

***Gene-Therapy in Orthopaedic Surgery: A Potential Spine Fusion Application***

*Matthew E. Cunningham, MD, PhD, Hospital for Special Surgery*

***Arthroscopic Implantation of Matrix-Seeded Autologous Chondrocytes for Cartilage Repair. Preliminary Results of First Pilot Study in Latinamerica***

*Jose Clemente Ibarra, Instituto Nacional De Rehabilitacion*

***Pilot Study of the Cervical Disc Spinal Kinetics "M6" in the Treatment of the Degenerative Disc Disease***

*Alejandro Reyes-Sánchez, MD, Instituto Nacional De Rehabilitacion*

***Osteocartilagineous Reconstruction in Avascular Necrosis of the Femoral Head***

*A. Giunti, D. Dallari, N. Baldini, Istituto Ortopedico Rizzoli*

# April 30, 2010

## ***Osteochondral Lesions of the Knee: From the Regenerative Cell Therapy to the Allografts***

*S. Giannini, MD, R. Buda, MD, P. M. Fornasari, MD, A. Ruffilli, MD, M. Cavallo, MD, B. Grigolo, PhD, T. Buscio, MD, F. Vannini, MD, Istituto Ortopedico Rizzoli*

## ***Histological Assessment of Repair Tissue in Biopsies from Patients Treated with Autologous Chondrocyte Implantation: Relationship to Symptomatology and Time*** *Briggs, Royal National Orthopaedic Hospital*

## ***Joint Arthroplasty***

*Moderators : Johan Bellemans, MD, PhD, Patrick Sussmann, MD*

## ***Trabecular Metal Cones in Severe Bony Defect During Revision Total Knee Arthroplasty - Initial Results***

*D. Kendoff, Y. C. Schmitz, W. Klauser, EndoKlinik*

## ***Trabecular Metal Augmentation in Revision Total Hip Arthroplasty - a Short Term Follow up***

*D. Kendoff, Y. Bangert, B. Schwantes, W. Klauser, T. Gehrke, EndoKlinik*

## ***Surgical Robotics for Unicondylar Knee Replacement***

*Andrew D. Pearle, MD, Hospital for Special Surgery*

## ***Shoulder Hemiarthroplasty for the Treatment of Complex Proximal Humeral Fractures with Antero-lateral Acromial Approach: A Clinical and Functional Evaluation***

*R. Accetta, A. Meersseman, L. Monti, G. Mineo, Istituto Ortopedico Galeazzi*

## ***From Cells to Metal Focal Knee Resurfacing***

*M. Marcacci, Istituto Ortopedico Rizzoli*

## ***Patellar Tracking in Mobile Bearing and Fixed Bearing Total Knee Replacements, A Cadaveric Study***

*G. Heinert, D. Kendoff, T. Gehrke, S. Preiss, P.S. Sussmann, Schulthess Klinik*

## ***Cemented Versus Press-Fit Placed Stems in Revision Total Knee Replacement - An RCT***

*Petra Heesterbeek, Ate Wymenga, Gijs van Hellemond, Sint Maartenskliniek*

## ***Cemented Versus Press-fit Placed Stems in Revision Total Knee Replacement – A Randomized Controlled Trial with Model-based RSA***

*Petra Heesterbeek, Ate Wymenga, Gijs van Hellemond, Sint Maartenskliniek*

# April 30, 2010

***Prospective Evaluation of the Correlation Between Knee Revision Indication on Function and Pain of 113 Consecutive Patients with a Follow up of 2 years.***

*R.W.T.M. van Kempen, MD, K. Defoort, MD, G. van Hellemond, MD, J. Schimmel, MSc, J. Bellemans, MD, PhD, H. Vandenuecker, MD, A. Wymenga, MD, PhD, Sint Maartenskliniek*

***Humeral Resection Arthroplasty as Salvage for Shoulder Infection***

*Luk Verhelst, MD, Jose A Stuyck, Philippe Debeer, MD, Johan Bellemans, MD, University Hospitals Leuven*

***Spine – Ankle – CPU***

*Moderators : Sandro Giannini, MD, Lars Lidgren, MD, PhD*

***High Interspecimen Variability of Baseline Data for the Tibiotalar Contact Area***

*G.A. Matricali, W. Bartels, L. Labey, G. Dereymaeker, F. Luyten, J. Vander Sloten, University Hospitals Leuven*

***Plate Fixation Through Sinus Tarsi Approach for Conminuted Intraarticular Calcaneous Fractures***

*C. Ortiz, MD, E.Wagner, MD, A. Keller, MD, C. Olmedo, MD, C. Diaz, MD, Clinica Alemana*

***CPUP – A Lund Initiated Cerebral Palsy Program.***

*Henrik Lauge - Pedersen, MD, Lund University Hospital*

*1.00 pm - 2.30 pm **Lunch followed by Rizzoli Tour***

*3.00 pm - 6.00 pm **Ferrari Factory Tour***

*8.00 pm **Dinner / Soprano Concert Isolani Palace***

# April 30, 2010

CEO

## *Istituto Ortopedico Rizzoli : Sala Bacchelli*

### ***Introductions Continued***

- 8.00 am - 8.20 am *Lund University Hospital (Sweden)*
- 8.20 am - 8.40 am *Mayo Clinic (USA)*
- 8.40 am - 9.00 am *Schulthess Klinik (Switzerland)*
- 9.00 am - 9.20 am *Sint Maartenskliniek (The Netherlands)*
- 9.20 am - 9.40 am *Campbell Clinic (USA)*
- 9.40 am - 10.00 am ***Break***
- 10.00 am - 11.30 am *How are we addressing growth opportunities?*  
*Facilitator: Louis Shapiro, Hospital for Special Surgery*
- 11.30 am - 1.00 pm *How are we dealing with capacity management challenges?*  
*Facilitator: Matthias Spielmann, Schulthess Klinik*
- 1.00 pm - 2.30 pm ***Lunch followed by Rizzoli Tour***
- 3.00 pm - 6.00 pm ***Ferrari Factory Tour***
- 8.00 pm ***Dinner / Soprano Concert Isolani Palace***

# May 1, 2010

ISOC

## *Istituto Ortopedico Rizzoli : Sala Vasari* *Taskforce Reports*

8.00 am - 9.00 am **Education / Fellowship**

*Mathias Bostrom, MD, Matthew Cunningham, MD, PhD,  
Luis Bahamonde, MD, Wolfgang Klauser, MD,  
Sandro Giannini, MD*

9.00 am - 10.00 am **Outcomes / Clinical Studies / Registries**

*Jorg Goldhahn, MD, Thomas Sculco, MD,  
Felipe Toro, MD, Fabio Catani, MD,  
Patrick Sussmann, MD*

10.00 am - 10.30 am **Implant Retrieval**

*Timothy Wright, PhD, Patrick Sussmann, MD,  
Wolfgang Klauser MD*

10.30 am - 11.00 am **Website**

*Ilsa Klinghoffer, MPA, Thomas Sculco, MD,  
Claudio Mella, MD, Patrick Sussmann, MD,  
Jorg Goldhahn, MD*

CEO

## *Istituto Ortopedico Rizzoli : Sala Bacchelli*

8.00 am - 9.30 am *How are we Addressing Our Economic Challenges?*

*Facilitator: Giovanni Baldi, MD  
Istituto Ortopedico Rizzoli*

9.30 am - 11.00 am *Open Session:*

*Facilitator: Alejandro de Marinis, MD  
Clinica Alemana*

# *May 1, 2010*

## *Combined ISOC / CEO Session*

### *Istituto Ortopedico Rizzoli : Sala VASARI*

*11.00 am - 11.15 am New Technology; Can we Afford it?*

*Thomas Sculco, MD*

*11.15 am - 11.30 am Lessons from Retrieval Analysis of Joint Replacement*

*Timothy Wright, PhD*

*11.30 am - 11.45 am Why Should we Bother with National Registers?*

*A Report from the Swedish Knee Arthroplasty Register*

*Lars Lidgren, MD, PhD*

*11.45 am - noon Advancing Musculoskeletal Health*

*Lars Lindgren, MD, PhD*

*noon - 1.00 pm Meeting Wrap-up*

***1.00 pm - 2.30 pm Lunch***

# General information and social program

*Hotel accommodations has been arranged at The Grand Hotel Baglioni.*

*It is the most prestigious luxury five-star hotel in Bologna, which truly stands out thanks to its excellent service. It is housed in a historic, prestigious building, dating from the 15th century, where elegance, tradition and prestige are combined with hospitality which pays careful attention to the requirements of the new traveller.*

*(Grand Hotel Baglioni, via Indipendenza n.8 - Tel. +39.051/225445)*

*On the April 29th at 8 p.m. You are invited to dinner at the restaurant "I Carracci": it is an extraordinary hall with original 15th century frescoes, the work of the Carracci school. It represents a point of reference for international VIPs and for delegations and authorities visiting the city of Bologna. Mrs Alexia Mouza, student of the Piano International Academy, will entertain you with a Piano concert, before dinner.*

*On the April 30th, after lunch, you will visit the "Istituto Ortopedico Rizzoli". It was founded at the end of the XIX century by the famous Bolognese surgeon, Francesco Rizzoli, and soon became one of the best orthopedic hospitals in the world due to its equipment, organization, research and teaching. This fame was above all due to Alessandro Codivilla and Vittorio Putti, the first directors who set up a prestigious school of orthopedics. The hospital is set in a monastic monumental complex of great artistic value, that houses works of art spanning four centuries: Carracci's octagonal cloister, frescoed by Ludovico Carracci and Guido Reni, the monks' ex-refectory decorated by Giorgio Vasari, and the superb library which is considered to be, with more than 32,000 volumes, the most important in the world in the field of orthopedics. (Istituto Ortopedico Rizzoli, via G.C. Pupilli n.1 - Tel. +39.051-6366900 )*

*In the afternoon of the 30th of April it will take place the Ferrari Factory Tour. Real and true keeper of the Myth Ferrari, the official Museum of the Company in Maranello gathers in its internal the cars, the images and the trophies that wrote the Ferrari successes in the world. Take a look behind the scenes of the team, which won the most titles in the history of Formula 1: The Scuderia Ferrari ! You will take an exciting trip through time and space and you will discover the history of the legend and the technology used in the cars.*

*On the April 30th at 8 p.m. you are invited to dinner at "Isolani Palace", where Mrs Anna Corvino will delight you with her wonderful soprano voice, in a refined and prestigious location. This marvelous building faces Piazza Santo Stefano, one of the most charming square in Italy, and its lounges, decorated with gorgeous frescos, will be the perfect place to host you.*

# *The best of Bologna in...*

## **Gourmet Walk - April 30, 2010**

*9.00 am*                      *Group Meeting Location: Grand Hotel Baglioni Hall*

*We will be having a guided tour of the town that focuses on different cultural food aspects. During the tour we will stop in some ancient food shops where we will taste our local products and tell their legends, stories and jokes. While walking around the medieval market we can taste delicacies such as mortadella, ciccioli, salsiccia passita, chocolate and much more.*

*12.30 pm*                      *Grand Hotel Baglioni Hall: we will take private taxis to reach the Istituto Ortopedico Rizzoli*

*1.00 pm - 2.30 pm*        *We will have lunch at the Istituto Ortopedico Rizzoli followed by a visit to the Library and Putti Studio*

*3.00 pm*                      *Visit to the Ferrari Factory*

## **Classic Tour - May 1, 2010**

### ***Piazza Maggiore***

*This square has been the heart of Bologna for 2500 years. Local residents of Bologna really do believe it is the heart of the town as they do not merely go “to town” like other Italians would; they say they are “going to the piazza”. This airy, open space is lined with the city’s most important buildings: the Palazzo d’Accursio, the seat of the city council, Palazzo Re Enzo, Palazzo del Podestà, the majestic Basilica of San Petronio, the elegant Fountain of Neptune, Palazzo dei Notai and the imposing Palazzo de’ Banchi.*

### ***Palazzo Accursio***

*Made up of buildings which cover 300 years of the city’s lively history, from 1200 to 1500, this is the prestigious seat of the city’s governing body and its majestic halls are decorated with works of enchanting beauty.*

# *The best of Bologna in...*

## ***The Palazzo del Podestà***

*An austere thirteenth-century building disguised as an elegant Renaissance residence, it is decorated with thousands of stone tiles which tell of its ancient history.*

## ***Palazzo Re Enzo***

*This is the city's sinister medieval prisons. Two seventeenth-century gallows betray the cruelty of a time when there was no such thing as a pardon.*

## ***The Sala Borsa***

*At the end of the 19th century, after the removal of the Cardinal's private gardens, this area was occupied by the splendid Stock Exchange in Art Nouveau style which we can still admire today. The glass floor allows visitors to view remains of the great Roman city of Bononia.*

## ***Fountain of Neptune***

*The symbol of sixteenth-century elegance, the clear waters of this fountain were never intended to quench the thirst of the Bolognesi but gushed forth instead in celebration of the power of the Pope.*

## ***Basilica of San Petronio***

*The building of this majestic Collegiate Church of indescribable charm began in 1390. Its uncompleted façade shows the sweetness of the Madonnina by Jacopo della Quercia, while masterpieces of Italian art in paintings, sculptures, and glass from the Middle Ages and the Renaissance may be found inside the basilica itself. There is also a Time Machine here, a sundial whose accuracy and charm still amazes people today.*

# *The best of Bologna in...*

## *The Archiginnasio and the Anatomy Theatre*

*Located in an elegant 16th-century building, the Archiginnasio was built as the first “single” seat of the University of Bologna, Europe’s oldest University. On the first floor we find the awesome Anatomy Theatre where corpses were sawn up during medicine and anatomy lessons.*

## *The medieval market and the loggia dei mercanti*

*Through the busy narrow alleyways of the market we reach the Palazzo which was the seat of the Merchants’ Forum. Built in the fourteenth century, its gothic style still attracts.*

## *Complex of Santo Stefano*

*Known as the Holy Jerusalem of Bologna for its symbolic connections with the sites of the Passion of Christ, there is still a Benedictine monastery here today whose origins go back to the dawn of Christianity. There is also a Byzantine church almost 1500 years old, a Romanesque church and an atmospheric crypt as well as two cloisters of matchless beauty. This is an historic and artistic experience not to be missed.*

## *The two towers*

*Two, two hundred, the “forest of stone”, this is Bologna and her legendary towers. Our itinerary comes to an end at the foot of these symbols of Bologna which have benevolently watched over the city since the Middle Ages.*

*1.00pm – 2.30pm: We will have lunch in a characteristic restaurant in the city.*



# SYMPPOSIA

*Organizing Secretariat*

*For any help please contact the following phone numbers*

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