VENUE:

Fondazione Collegio San Carlo
Via S. Carlo, 5 - Modena (MO)

CME:

The event will award 6.3 CME credits to the following professions: MEDICAL DOCTOR (Physical Medicine and Rehabilitation, Orthopedics and Traumatology, Radiodiagnostics), PHYSIOTHERAPIST; ORTHOPEDIC TECHNICIAN.

REGISTRATION:

It is possible to register by visiting the website www.congredior.it
EARLY BIRD REGISTRATION CLOSES 22nd APRIL

LEARNING OBJECTIVE: 3

ORGANIZING SECRETARIAT:

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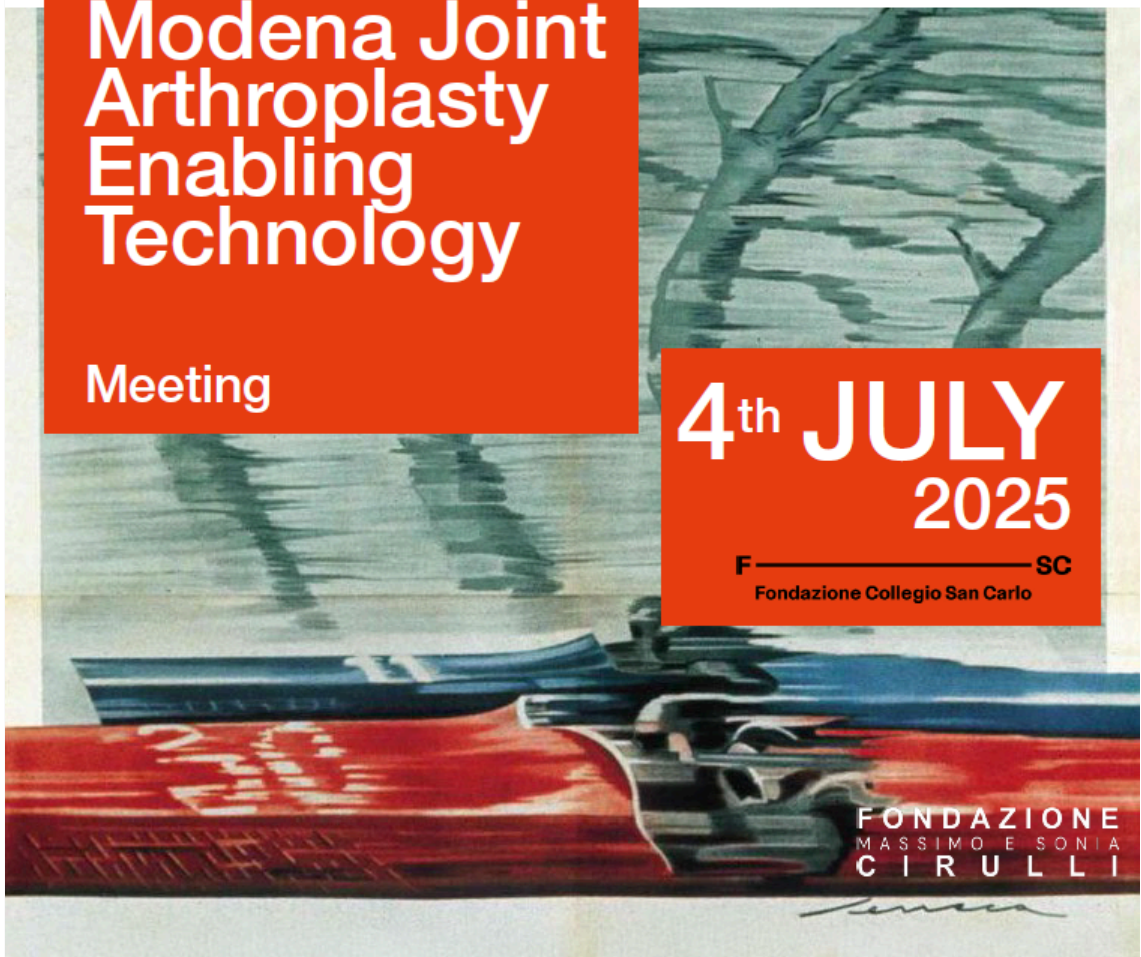
Modena Joint Arthroplasty Enabling Technology Meeting



Course Chairman:
F. Catani, *Chief of the Orthopaedic Surgery Department of Modena and Reggio Emilia University*

Scientific Committee: **A. Marcovigi, L. Tarallo, F. Zambianchi**

Invited Faculty:

W. J. Anderst (USA)	J.P. Cobb (UK)	A. Klasan (Austria)	S.M.P. Rossi (Italy)
D. Barrett (UK)	R. Cohen (USA)	A. Laurent (France)	M. Schiraldi (Italy)
F. Benazzo (Italy)	M. Engl (Italy)	S. Lustig (France)	L. Tarallo (Italy)
B. Bloch (UK)	A. Gasbarrini (Italy	T. Luyckx (Belgium)	M. Trevisan (Italy)
M. Borroni (Italy)	G. Giordano (Italy)	M. Mantovani (Italy)	A. Tripodo (Italy)
A. Camporese (Italy)	F. Haddad (UK)	A. Marcovigi (Italy)	E. Tsiridis (Greece)
R. Castricini (Italy)	M. Hirschmann (Switzerland)	G. Peersman (Belgium)	G. Van Hellemondt (Holland)
F. Catani (Italy)	B. Innocenti (Italy)	G. Porcellini (Italy)	J. Victor (Belgium)
R. Civinini (Italy)	S.A. Jerabek (USA)	M. Pungitore (Italy)	S. Zaffagnini (Italy)
J. Chaoui (France)	T. Karachalios (Greece)	C. C. J. Rivière (France)	F. Zambianchi (Italy)

SCIENTIFIC PROGRAM

7.45 Registration of participants
8.15 Introduction of the meeting, *F. Catani*
8.20 Speech of the Authorities, *C. Porro, M. Zoli, M. Dominici, Ing. Baldino, M. Mezzetti, A. Troelsen, E. Tsiridis, P. S. Randelli*

Open coffee and beverages

I SESSION

Moderators: *F. Catani, F. Haddad*

8.40 JA enabling technology: decision making process made by marketing or clinical needs? *R. Cohen*
Unmet surgical and clinical needs: the pillars for developing joint arthroplasty enabling technology
8.55 THA, *F. Haddad*
9.05 TKA, *J. Victor*
9.15 UKA, *S. Lustig*
9.25 Bi-Cruciate Retaining Knee, *J. P. Cobb*
9.35 TSA & RSA, *G. Porcellini*
9.45 Spine, *A. Gasbarrini*
9.55 Image-less and imaged-based enabled technology in primary and revision surgery: accuracy, precision and planning, *F. Benazzo*

II SESSION: HIP enabling technology

Moderators: *S. A. Jerabek, E. Tsiridis*

10.05 Single wedge stem fixation with modified stem anteversion vs neck version with PLA, *A. Marcovigi*
10.12 Functional positioning data in RATHA with PLA, *F. Haddad*
10.19 DAA with RHTHA surgical technique and clinical outcomes, *A. Camporese*
10.26 RCT of manual vs robotic THA with PLA, *F. Haddad*
10.33 Advanced Navigation System in THA, *R. Civinini*
10.40 Spino-pelvic motion and THA kinematic alignment, *C.C.J. Riviére*
10.47 Improvement in Back Pain and Disability in Patients with Hip-Spine Syndrome after THA, *M. J. Anderst*
10.55 Discussion

III SESSION: KNEE ENABLING TECHNOLOGY

Alignment

Moderator: *M. Hirschmann, S. Lustig*

11.25 Functional vs Mechanical TKA RCT, *F. Haddad*
11.32 Three-compartment phenotype concept (3D-FKP) of total knee arthroplasty alignment - Mismatch between distal femoral, posterior femoral and tibial joint lines in 83% of non- osteoarthritic and 88.8% of osteoarthritic knees, *M. Hirschmann*
11.39 Bone cut accuracy: new classification and rationale with image based robotic technology, *S. Lustig*
11.46 Associations Between REAL Classification, CPAK Phenotypes, Alignment Severity and Surgical Management in Personalized Robotic-Assisted Total Knee Arthroplasty, *E. Tsiridis*
11.53 The impact of Alignment philosophy in TKA on trochlear Anatomy restoration is strongly linked to the LDFA, *T. Luyckx*
12.00 AI-powered surgical planning for Total Knee Arthroplasty, *J. Chaoui*
12.07 The Basics about Functional Alignment in Total Knee Arthroplasty - How Does it Work?, *A. Klasan*
12.15 Discussion

Lunch

Soft tissue balancing – *Is soft tissue balancing different based upon image-less or image-based systems?*

Moderators: *S. Zaffagnini, D. Barrett*

14.00 Stability, Alignment, and Soft Tissue Balancing in Knee Biomechanics, *B. Innocenti*
14.07 Soft tissue balancing, component alignment and implant design relationship in TKA, *J. Victor*
14.14 Alignment and soft tissue balancing of Bi-cruciate TKA with CORI system, *M. Schiraldi*
14.21 Soft tissue balancing and alignment strategy with Omnibot system, *A. Tripodo*
14.28 Soft tissue balancing and alignment strategy with Skywalker system, *T. Karachalios*
14.35 Soft tissue balancing and alignment strategy with CR Mako system, *M. Trevisan*
14.42 Soft tissue balancing using image-less Velys system depending on alignment stategy, *B. Bloch*
14.49 A navigation-based analysis of native knee collateral ligament elongation patterns: CPAK classification subgroups exhibit phenotype specific ligament behavior, *G. Peersman*
14.56 Achieving medial stability with Nextar, *M. Engl*
15.03 Soft-tissue management for TKA, *A. Laurent*

Third space

15.10 Anterior offset and patella tracking enhancement using robotic assisted technology for TKA, *S. Lustig*
15.17 In vivo PFJ loading in the third space: how do we get it so wrong? *D. Barrett*
15.24 Posterior lateral and distal lateral resections influence post-operative patellar tilt in robotic- assisted total knee arthroplasty, *M. Pungitore*
15.31 TKA component alignment and patellar tracking in well balanced knee, *F. Zambianchi*
15.38 Discussion

HIP and Knee Revision

Moderators: *G. Van Hellemondt, F. Haddad*

15.55 Mako hip revision, *S. Jerabek*
16.02 Mako Robotic System in Revision of Unicompartmental Knee Arthroplasty: Surgical Technique and Outcomes, *F. Haddad*
16.09 Revision TKA with CORI system: tips and tricks, *G.Van Hellemondt*
16.16 Literature reviews on RTKS using assisted technology, *M. Mantovani*
16.23 TKA revision and soft tissue balancing, *G. Giordano*
16.30 The Use of an Imageless Robotic System in Revision of Unicompartmental Knee Arthroplasty (UKA): Surgical Technique and Outcomes, *S. M. P. Rossi*
16.40 Discussion

IV SESSION: SHOULDER ENABLING TECHNOLOGY

Moderators: *M. Borroni, L. Tarallo*

17.10 The role of the Scapula in Shoulder Diseases: Reasons to Assess, quantify and rehab it, *M. Mantovani*
17.17 Shoulder Arthroplasty enabled technology particularly related to CTbased Nav and sensors, *A. Laurent*
17.24 Intraoperative RSA motion and load sensor data using CT based navigation system, *L. Tarallo*
17.31 Optimal glenoid components alignment with Augmented Reality Guidance, *R. Castricini*
17.38 Kinematic study of scapula-thoracic joint using the "slow motion" sensors in cohort of patients treated with Navigated RSA: how the scapula-thoracic joint can influence the clinical outcomes in RSA, *L. Tarallo*
17.45 AI-powered preoperative surgical planning from Image to Implant: Shoulder Arthroplasty, *J. Chaoui*
17.52 Discussion
18.15 End of the meeting and conclusion, *F. Catani*