

# EFORT – IC advanced



A combined Instructional Course with  
EHS – European Hip Society

## EFORT – EHS Instructional Course

MILAN, ITALY

16-17 OCTOBER 2009

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THE PROBLEMS OF THE MATERIALS IN THA  
WHAT THE ORTHOPAEDIC SURGEON SHOULD KNOW



EFORT – JOINT EFFORTS

## WELCOME ADDRESS



Dear Colleagues,

Last year's Instructional Course in Milan focused on the prevention and treatment of surgical complications in THA, but there was not enough time to address the problems related to materials. The success of that course and the general willingness to study this aspect of the procedure in depth has encouraged us to organise a new IC on a topic that sometimes retains a degree of mystery for surgeons. Technological progress continually offers new devices and materials to the orthopaedic surgeon, who must be aware and its advantages and disadvantages. The purpose of this advanced IC is to help participants understand the materials employed in every day surgical activity better, so that they can make more informed decisions.

The faculty of the IC is enriched considerably by contributions from engineers, chemists and experienced European surgeons. The main topic is addressed from the perspective of clinical practice.

In addition, it is our pleasure and our honour to organise the first combined meeting with the European Hip Society in a spirit of collaboration between EFORT and the specialist societies.

There will be plenty of time for discussion at the end of each session, as well as an entire session devoted to debate on controversial and difficult cases ("what to do?" in case of materials-related failures). All participants in the course are warmly invited to bring and to present their own cases, submitting them to the Scientific Committee before the beginning of this session. Our hope is again to stimulate very active participation in the IC by attendees.

We look forward to meeting you all in Milan, and to welcoming you to the Istituto Ortopedico Galeazzi IRCCS.



Karl-Göran Thorngren  
EFORT President



Luigi Zagra  
Chairman LO



George Macheras  
EHS President

## PROGRAMME

### FRIDAY 16 OCTOBER 2009

- 7.30 Registration
- 8.10 Opening and welcome L. Zagra, K.-G. Thorngren,  
G. Macheras, P. Bartolozzi, F. S. Santori
- 8.20 About EFORT K.-G. Thorngren

#### METALS EMPLOYED IN THA

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Moderators: G. Macheras, R. Giacometti Ceroni

- 8.30 Steel, cobalt chromium alloys, titanium and tantalum R. Chiesa
- 8.45 Mechanism of failure and metal compatibility P. Dalla Pria
- 9.00 Mechanical validation of an implant T. Villa
- 9.15 Clinical experience: The problems N. Böhler
- 9.30 Questions and discussion

#### WHAT IS THE OPTIMUM CONTACT SURFACE TO THE BONE?

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Moderators: J. Tabutin, F. S. Santori

- 9.50 Materials and surface finishing R. Chiesa
- 10.05 Macrostructures L. Fedrizzi
- 10.20 Is HA coating useful? P. Tranquilli Leali
- 10.30 Clinical experience: The problems G. Macheras
- 10.45 Questions and discussion
- 11.00 Coffee break

#### THE CEMENT

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Moderators: T. Karachalios, P. Tranquilli Leali

- 11.30 Different types of cement, antibiotic addittivation, bone-cement interface L. Costa
- 11.45 The history of cementing techniques: Always improvements? J. Tabutin
- 12.00 Medullary cavity cement stoppers M. Krismer
- 12.10 Cementing the titanium and the "French paradox" L. Sedel
- 12.25 Long term results of cemented implants K.-G. Thorngren
- 12.40 Discussion
- 13.00 Lunch

PROGRAMME  
FRIDAY 16 OCTOBER 2009

## THE EVOLUTION OF THE LINERS AND HEADS MATERIALS

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Moderators: M. Krismer, M. D'Imporzano

- |       |  |               |
|-------|--|---------------|
| 14.00 | Why a metal back and when cement is employable                     | D. Bergadano  |
| 14.10 | Which types of locking mechanism                                   | P. Dalla Pria |
| 14.20 | Why from conventional PE to cross-linked and Vit. E addittivation? | L. Costa      |
| 14.35 | Which metals are compatible for bearing surfaces                   | D. Bergadano  |
| 14.50 | History and evolution of ceramic                                   | F. Macchi     |
| 15.05 | Questions and discussion   |               |

## DIFFERENT PROBLEMS FOR THE DIFFERENT COUPLINGS (EXPERIENCES, RESULTS, TRICKS AND TIPS)

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Moderators: N. Böhler, G. Mineo

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|-------|------------------------------|----------------|
| 15.20 | Metal-on-PE                  | G. Zatti       |
| 15.30 | Ceramic-on-PE                | F. S. Santori  |
| 15.40 | Metal-on-metal               | F. Randelli    |
| 15.50 | Ceramic-on-ceramic           | L. Sedel       |
| 16.00 | Ceramic-on-metal             | M. Tokgozoglu  |
| 16.10 | Oxidized zirconium           | T. Karachalios |
| 16.20 | Polycarbonate (poli)urethane | M. D'Imporzano |
| 16.30 | Discussion                   |                |
| 16.45 | Coffee break                 |                |

## CONSIDERING MAJOR PROBLEMS

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Moderators: M. Tokgozoglu, P. Gallinaro

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|-------|---|---------------|
| 17.10 | Factors influencing wear and osteolysis                                   | T. Mattes     |
| 17.20 | Mechanism of fracture and of noises in ceramic                            | P. Dalla Pria |
| 17.30 | How frequent is the ceramic fracture and what to do in case this happened | F. Macchi     |
| 17.40 | Local and systemic biological response of metal-on-metal                  | I. Learmonth  |
| 17.55 | Allergies: Which evidences, which tests are available?                    | P. Pigatto    |
| 18.05 | Algorithm of the allergic patient   | G. Mineo      |
| 18.15 | Discussion  |               |
| 18.30 | End of the day  |               |
| 20.30 | Social event  |               |

## PROGRAMME

### SATURDAY, 17 OCTOBER 2009

#### DIFFERENT PROBLEMS, ADVANTAGES AND DISADVANTAGES

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Moderators: K. Knahr, P. Rossi

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|-------|--|--------------|
| 8.00  | Beware of fashion surgery  | J. Tabutin   |
| 8.10  | The problems of different standards<br>(cones, screws, sizes, etc)               | P. Rossi     |
| 8.20  | Advantages and problems of modularity  | F. Benazzo   |
| 8.30  | Advantages and problems of the big heads   | L. Zagra     |
| 8.40  | Is there a specific problem of materials<br>in resurfacing?                      | I. Learmonth |
| 8.50  | How to measure the wear and how<br>to detect a failure?                          | M. Krismer   |
| 9.00  | The problems of compatibility in case of<br>partial revision or previous failure | P. Hoffmeyer |
| 9.10  | Strategies for head and inlay exchange in revision                               | K. Knahr     |
| 9.20  | Periprosthetic fractures: Which material for<br>internal fixation?               | R. Cabral    |
| 9.30  | Is there an influence of the materials<br>on infection?                          | C. Romanò    |
| 9.40  | Implants survivorship and material defects<br>(the importance of registries)     | N. Böhler    |
| 9.50  | Discussion   |              |
| 10.15 | Coffee break   |              |

#### DIFFICULT AND CONTROVERSIAL CASES DEBATE

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Moderators: P. Hoffmeyer, L. Zagra

Presenters: M. Corbella, G. P. Rinaldi, C. Romanò and attendees

10.45 Failures related to the materials: What to do?

11.30 **Industry workshop**

#### LECTURE

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Moderator: L. Zagra

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|-------|--|-------------------------------------|
| 12.15 | The success of an arthroplasty depends on<br>the materials employed? | R. Giacometti Ceroni                |
| 12.30 | Credit evaluation  | L. Zagra                            |
| 12.35 | Closing discussion   | P. Hoffmeyer, G. Macheras, L. Zagra |
| 12.45 | The end of the course followed by lunch snack                        |                                     |

## INFORMATION

### ORGANISATION

EFORT CENTRAL OFFICE

Technoparkstrasse 1

8005 Zurich - Switzerland

Sabrina Wolf

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Phone: +41 (0)44 448 44 00

### VENUE

Istituto Ortopedico Galeazzi I.R.C.C.S

Via Riccardo Galeazzi 4

20161 Milano, Italy

[www.galeazzi-gsd.it](http://www.galeazzi-gsd.it)

### REGISTRATION AND ACCOMMODATION

[www.efort.org](http://www.efort.org)

Registration deadline: 5 October 2009

### OPENING HOURS

Friday, 16 October 2009, 07.30–18.30

Saturday, 17 October 2009, 8.00–12.45

### CONGRESS LANGUAGE

English – no simultaneous translation

### COURSE FEE

Registration fee (excl. dinner on 16 October)	EUR 270*
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Registration fee for residents*	EUR 135**
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Onsite registration	EUR 310
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Dinner on 16 October 2009	EUR 30
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\*10% Discount for EHS Members    \*\*A proof of occupation is mandatory  
(The course fee does not incl. travel, accommodation)

### CREDITS

9 European credits

9 Italian credits "preliminary"

## FACULTY

### FACULTY

P. Bartolozzi, Verona, Italy	G. Macheras, Athens, Greece
F. Benazzo, Pavia, Italy	F. Macchi, Rome, Italy
D. Bergadano, Genova, Italy	T. Mattes, Ulm, Germany
N. Böhler, Linz, Austria	G. Mineo, Milan, Italy
R. Cabral, Coimbra, Portugal	P. Pigatto, Milan, Italy
R. Chiesa, Milan, Italy	F. Randelli, Milan, Italy
M. Corbella, Milan, Italy	G.P. Rinaldi, Milan, Italy
L. Costa, Turin, Italy	C. Romanò, Milan, Italy
P. Dalla Pria, Udine, Italy	P. Rossi, Turin, Italy
M. D'Imporzano, Milan, Italy	F. S. Santori, Rome, Italy
L. Fedrizzi, Udine, Italy	L. Sedel, Paris, France
R. Giacometti Ceroni, Milan, Italy	J. Tabutin, Cannes, France
P. Gallinaro, Turin, Italy	K.-G. Thorngren, Lund, Sweden
P. Hoffmeyer, Geneva, Switzerland	M. Tokgozoglu, Ankara, Turkey
T. Karachalios, Larissa, Greece	P. Tranquilli Leali, Sassari, Italy
K. Knahr, Vienna, Austria	T. Villa, Milan, Italy
M. Krismer, Innsbruck, Austria	L. Zagra, Milan, Ital
I. Learmonth, Bristol, UK	G. Zatti, Monza, Italy

ALL

ALL

### PATRONAGE



**Società Italiana  
di Ortopedia  
e Traumatologia**

# EFORT ADVANCED TRAINING PROGRAMME

## FORTHCOMING EFORT ATP 2009

### HIP

EFORT IC advanced Milan, 16-17 October 2009  
combined course with EHS (European Hip Society)  
Milan, Italy

### KNEE

EFORT IC basic Marseille, 11-12 September 2009  
Marseille, France

### PAEDIATRICS

EFORT - EPOS IC basic Vienna, 8-10 October 2009  
combined course with EPOS (European Paediatric Orthopaedic Society)  
Vienna, Austria

### SPINE

EFORT ExMEx Forum Barcelona, 19-20 November 2009  
combined expert course with GEER (Spanish Spine Society)  
Barcelona, Spain

EVENTS approved by EFORT

## Event Structure

Expand your knowledge! Visit our Advanced Training Programme on:  
[www.efort.org/training](http://www.efort.org/training)