



# TRAINING SCHOOL

## NON LIVING MATERIALS MEET LIVING BIOLOGY

Patras, Greece - 9-12 May 2017



COST MP1301  
NEWGEN

The Training School “Non Living Materials meet living Biology” will take place from Tuesday 9<sup>th</sup> to Friday 12<sup>th</sup> May 2017 at Airotel Achaia Beach in Patras, Greece.

Topics such as Bone structure and properties, cell biology, bone physiology; Biocompatibility; Biointerphase; Processing of materials and final surface characteristics; Scaffold design, processing, biodegradation/resorption; Mechanobiology; Bone Tissue Engineering; In vivo experimental procedures and Surgical aspects will be discussed.

The school will propose lectures given by internationally recognized experts and a **poster contest** will be organized: **all students are encouraged to participate by presenting a poster of their research/thesis.**

**Date:** 9-12 May 2017 **Location:** Airotel Achaia Beach, Patras, Greece

**Fees:** 300€ (European Ceramic Society and American Ceramic Society Members)  
400€ (Non members of ECerS or ACerS)  
*INCLUDING ACCOMMODATION AND SUBSISTENCE!*

**Registration form** downloadable on [www.ecers.org](http://www.ecers.org) and [www.newgen.org](http://www.newgen.org)

**Deadline for registration:** April 15<sup>th</sup> 2017

**Contact:** [mp1301@bcrc.be](mailto:mp1301@bcrc.be)

**LIMITED TO 50 PARTICIPANTS!**

### Organizing Committee:

- **Yannis F. Missirlis** - Laboratory of Biomechanics and Biomedical Engineering - Mechanical Engineering & Aeronautics Dept. - University of Patras
- **Francis Cambier** - Chair of NEWGEN Action - CRIBC, Mons, Belgium and Secretary of JECS Trust and ECerS
- **Stéphane Hocquet** – STSM coordinator of NEWGEN Action - CRIBC, Mons, Belgium

With the Support of :





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## PROGRAM

### MAY 9

Arrival at Airotel Achaia Beach

21:00 **Evening Lecture**  
**Current challenges for materials for orthopedic implants**  
**Theofilos Karachalios** -  
University of Thessaly, Greece

### MAY 10

9:00-9:10 **Welcome**  
**Yannis Missirlis** - University of  
Patras, Greece

9:10-9:30 **General Introduction**  
**Francis Cambier** - Chair of  
NEWGEN Action – CRIBC, Mons,  
Belgium

9:30-11:00 **Ceramics and glasses for biomedical applications**  
**Stephane Hocquet & Francis Cambier** - CRIBC, Mons, Belgium

11:30-13:00 **Metals and alloys for orthopedic and dental implants**  
**Moataz Attalah** - University of  
Birmingham, UK

14:45-16:00 **A general overview of polymers (including cements)**  
**Eamonn de Barra** - University of  
Limerick, Ireland

16:00-17:30 **Bone: structure and properties, cell biology, bone physiology**

**Mauro Alini** - AO, Davos,  
Switzerland

18:00-19:00 **Processing of materials and final surface characteristics**

**Karine Salim** - PCAS Group,  
Paris, France

19:00-20:00 **Poster contest**

21:00 Dinner

### MAY 11

9:00-10:30 **What is a biointerphase, and its dynamic evolution**

**Artemis Stamboulis** - University  
of Birmingham, UK

10:45-12:00 **In vivo experimental procedures**  
**Martijn Van Griensven** - TU  
Munich, Germany

12:00 Light Lunch  
12:30 Visit to Ancient Olympia  
20:00 Dinner

### MAY 12

9:00-10:00 **Scaffold design, processing, biodegradation & resorption**

**Anne Leriche** - University of  
Valenciennes, France.

10:00-11:00 **Mechanobiology**  
**Sylvain Gabriele** - University de  
Mons, Belgium

11:30-12:45 **Bone Tissue Engineering, current trends**  
**Aylin Sendemir-Urkmez** - Ege  
University, Turkey

14:15-15:15 **Biocompatibility: definitions, in-vitro tests, standards**

**Reto Luginbuehl** - RMS  
Foundation, Bettlach,  
Switzerland

15:15-16:15 **Surgical aspects**  
**Andreas Panagopoulos** -  
University of Patras, Greece

16:15-16:45 **Concluding remarks and Poster Awards.**

**JECS**  
Trust

**EARS**

