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Chairman



Anna Pandolfi, Politecnico di Milano
Scientific Coordinator of the Thematic Symposium



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Daniele Bianchi, Università degli Studi di Roma "Tor Vergata"

Contacts

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SenTech
Systems and Energy Technologies
<http://www.sentech.it>

CAETECH
PERFORMANCE EXPERIENCE
<http://www.caetech.it>

SIMULIA
<https://www.3ds.com>

IVTECH
In-vitro technologies
<http://www.ivtech.it>

Registration Information

FEE		Early by 28/07 (Late by 08/09)	
		Only 1 day	Full congress
Regular (Non ESB Member)	Student (*)	90 (140) €	130 (180) €
	Senior	130 (180) €	180 (230) €
ESB Member	Student (*)	60 (110) €	100 (150) €
	Senior	100 (150) €	150 (200) €
Social Dinner		40 €	

(*) Student of a Bachelor or Master degree; PhD student
Fee provides congress entry, registration and conference materials, coffee breaks and lunches (day registration includes: congress entry, coffee breaks and lunch during the conference on the specific day).
Manuscript templates, submission, registration and other conference queries at: <http://www.esb-ita.it/main/meetings/esb-ita17>

Special issue (NEW!)

Invited full-length papers will be considered for a special issue of the **Journal of Biomechanical Engineering - ASME**

<http://biomechanical.asmedigitalcollection.asme.org>



Important Dates

Abstract submission deadline (NEW!)	10/06/2017
Notification of acceptance	30/06/2017
Master thesis award candidature deadline	01/07/2017
Early bird registration deadline	28/07/2017
Late registration deadline	08/09/2017

Awards

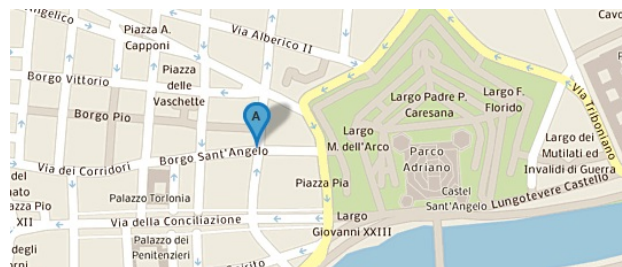
The ESB Italian Chapter, during the VII Annual Meeting, will assign to young researchers the following Awards:

- ESB-ITA Best Presentation 2017
- ESB-ITA Best Poster 2017
- ESB-ITA Master Thesis Award 2017

Application procedures and rules described in the meeting website

Conference venue

LUMSA, Aula Magna, Borgo Sant'Angelo, 13 - 00193, Roma



FINAL CALL

VII Annual Meeting

Italian Chapter of the
European Society of Biomechanics



ESB-ITA 2017

**Ocular Biomechanics
Thematic Symposium**

28 September 2017

**Biomechanics in Italy
General Session**

29 September 2017

Overview

The VII Annual Meeting of ESB-ITA comprises both a thematic symposium on ocular biomechanics and a general session.

The functioning of the eye in both health and disease involves diverse areas of physics such as solid mechanics, fluid mechanics, and electro-chemistry. Understanding and modelling numerically the complex physics of the eye is fundamental to improve patient outcomes in the current clinic practice. In this thematic symposium, organized under the auspices of the International Society of High-Tech in Ophthalmology, we aim to bring together ophthalmologists and researchers working on the biomechanics of the eye, in order to share experiences, ideas, methods and results.

The general session will cover experimental and computational techniques for the study of the pathophysiological behaviour of biomechanical systems. A broad spectrum of scales will be covered, ranging from the cellular, through the tissue, up to organ scale. Medical devices and their interaction with living-tissues will be also addressed. Accordingly, a snapshot of biomechanical research will be provided.

Location

The conference will be held at the University of Rome LUMSA. The venue is nearby some of the most important historical sites of Rome, such as the Vatican City and Castel Sant'Angelo (less than 50 meters away). The venue can be reached by walk from a number of hotels.



Thematic Symposium Ocular Biomechanics

Under the auspices of the International Society of High-Tech in Ophthalmology



Invited Lectures



Leonardo Mastropasqua

MD, Full Professor in Ophthalmology

Head of the Ophthalmology Department, Head of the Center of Excellence, National High-Tech Center and Italian School of Robotic Surgery in Ophthalmology, Università "Gabriele d'Annunzio" di Chieti-Pescara, Italy; President of the Italian Council of University Professors of Ophthalmology; President of the Italian Society of University Ophthalmologists (SOU).



Giovanna Guidoboni

PhD, Chair Gutenberg 2014

Associate Professor, Department of Mathematical Sciences, Indiana University-Purdue University Indianapolis, USA; Adjunct Professor, Ophthalmology, IU School of Medicine; Joint Chair IUPUI-LABEX IRMIA, Strasbourg, France.

Regular Lectures

Held by ophthalmologists, biologists, mathematicians and engineers with multidisciplinary discussions. Lectures will deal with all aspects of ocular biomechanics covering mechanisms that range from solid mechanics, through fluid mechanics, up to electrochemistry.

(NEW!)

Accepted abstracts submitted to the Thematic Symposium will be collected in a special issue of the **Journal for Modeling in Ophthalmology** (Kugler)

www.modeling-ophthalmology.com



General Session Biomechanics in Italy

The state-of-the-art of biomechanics, mainly but not exclusively in Italy, will be presented. Both **poster** and **oral** sessions are forecast. Contributions are encouraged on all aspect of biomechanics.

Main Topics

- musculoskeletal biomechanics;
- orthopaedic biomechanics;
- cardiovascular biomechanics;
- tissue constitutive modeling;
- multiphysics modelling;
- mechanobiological remodelling;
- tumor growth;
- nanomechanics and nanomedicine;
- modeling of drug delivery;
- image-based methods.

About ESB-ITA

The Italian Chapter of the European Society of Biomechanics (ESB) brings together Italian ESB members or ESB members affiliated to Italian Institutions. ESB-ITA encourages, fosters and promotes research in the science of biomechanics. For further information please visit website at: <http://www.esb-ita.it>



**Round table discussion on
research projects and
post-doctoral opportunities**