

*The IEEE Italy Section and the Dipartimento di Ingegneria of the Università degli Studi di Perugia,
in cooperation with "Ordine degli Ingegneri della Provincia di Perugia"*

introduce:

**2nd IEEE Italy Section Summer School:
Multiscale Bioengineering: from Molecules to organs (μ MBioEng 2016)**

Aimed at engineers, natural scientists, mathematicians
wishing to learn about new frontiers in bioengineering

School of Engineering, via G. Duranti, Perugia, Italy, 6 -10 June 2016

OPEN FOR APPLICATIONS

www.mmbioeng2016.jimdo.it

Technical Program Chairmen

- J Elisabetta Zanetti, Giordano Franceschini (Dipartimento di Ingegneria, Università di Perugia),
- J Fabio Radicioni (Ordine degli Ingegneri della Provincia di Perugia)

General Chairmen

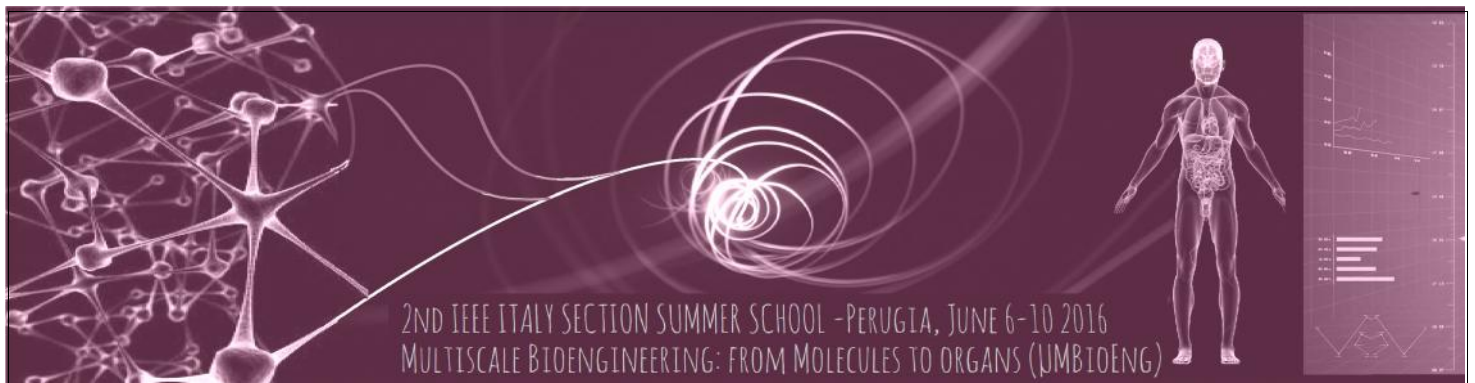
- J Ermanno Cardelli (IEEE Italy Section),
- J Giuseppe Saccomandi (Director of Dipartimento di Ingegneria, Università degli Studi di Perugia)

Topics include:

- J Molecular modeling and Computational Drug Discovery (Prof. Jack Tuszynski)
- J Gel Dynamics: a Continuum Mechanics Perspective (Prof. Luciano Teresi)
- J Analysis of Biological Tissues: constitutive formulation and numerical modeling (Prof. Arturo Natali)
- J Modeling Cardiovascular Hemodynamics (Prof. Umberto Morbiducci)
- J Multiscale Image and Signal Processing (Prof. Filippo Molinari)
- J Molecular Communication Systems (Proff. Gianluca Reali, Mauro Femminella)

A Qualifying IEEE Certificate of Attendance will be issued to attendees.





Detailed Program

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	Monday 06 June 2016	Tuesday 07 June 2016	Wednesday 08 June 2016	Thursday 09 June 2016	Friday 10 June 2016
9.00-10.40	Analysis of biological tissues and structures: constitutive formulation and numerical modelling (Prof. A. Natali)	Automated techniques for multiscale image and signal processing (Prof. F. Molinari)	Gel Dynamics: a Continuum Mechanics Perspective (Prof. Luciano Teresi)	Introduction to the Methods of Computational Drug Discovery (Prof. J.A.Tuszynski)	Introduction to the Methods of Computational Drug Discovery (Prof. J.A.Tuszynski)
	BREAK	BREAK	BREAK	BREAK	BREAK
11.10 - 12.50	Gel Dynamics: a Continuum Mechanics Perspective (Prof. Luciano Teresi)	Introduction to the Methods of Computational Drug Discovery (Prof. J.A.Tuszynski)	Analysis of biological tissues and structures: constitutive formulation and numerical modelling (Prof. A. Natali)	Automated techniques for multiscale image and signal processing (Prof. F. Molinari)	Modeling cardiovascular hemodynamics (Prof. U. Morbiducci)
	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14.00-15.40	Modeling cardiovascular hemodynamics (Prof. U. Morbiducci)	Analysis of biological tissues and structures: constitutive formulation and numerical modelling (Prof. A. Natali)	Automated techniques for multiscale image and signal processing (Prof. F. Molinari)	Modeling cardiovascular hemodynamics (Prof. U. Morbiducci)	Molecular Communication Systems (Proff. G. Reali, M. Femminella)
	BREAK	BREAK	BREAK	BREAK	BREAK
16.10-17.50	Presentations by PhD Students	Gel Dynamics: a Continuum Mechanics Perspective (Prof. Luciano Teresi)	Presentations by PhD Students	Perugia City Tour	Molecular Communication Systems (Proff. G. Reali, M. Femminella)

L'Ordine degli Ingegneri della Provincia di Perugia riconoscerà 3 CFP per ogni evento.

E' richiesta la pre-iscrizione tramite il sito web of invio e-mail a elisabetta.zanetti@unipg.it

