# International School of Bioelectromagnetism "Alessandro Chiabrera"

School Directors: Ferdinando Bersani (University of Bologna, Italy) and Maria Rosaria Scarfì (CNR-IREA, Naples, Italy)

#### XIII Course: Bioelectromagnetic systems for innovative High-Performance Sensing and Interaction strategies

Erice (Sicily, Italy): May 2 to 7, 2026



**Course Description -** Showing how to exploit the interaction between electromagnetic fields and biological systems for chemical and physical parameters detection.

General topics: Photonic biosensors for medical and environmental monitoring; microwaves for biological analysis and healthcare applications; terahertz radiation for medical diagnostics; measurements via wearable and ingestible devices; intracellular probing.

**Key Objectives**: Provide researchers with essential skills for EM field interaction, diagnostics and monitoring in medical and environmental applications, including *point of care* testing.

#### **Directors of the Course**

#### Nunzio Cennamo

University of Campania L. Vanvitelli, Italy Nunzio.Cennamo@unicampania.it

#### Katia Grenier

LAAS-CNRS, Toulouse, France Grenier@laas.fr

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# Award for the best poster presentation

All participants are invited to bring a poster on their current research topic, and one session will be devoted to the presentation of posters. A scientific committee will award the Author of the best poster.

# **Fellowships**

Fellowships will be offered for students from low- or middle-income countries.

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The Center for Scientific Culture in Erice (Sicily) is named after the Italian Scientist Ettore Majorana.

In 2003 the E. Majorana Center has established a Permanent School of Bioelectromagnetism, named to Alessandro Chiabrera, considered as a master by the Bioelectromagnetics community. Since then, several Courses have been organized on different aspects of this topic (www.eisbem.eu)

## Participation fee:

€ 1,200

The Registration fee will include:

- Attendance to all sessions
- Food (breakfast, lunch, dinner + one Course dinner)
- Accommodation
- Transportation (Shuttle from and to the Palermo/Trapani airport
- Half a day excursion to an archaeological site

# Application:

Interested candidates should send an e-mail to the Director of the Course at <a href="mailto:school2026@eisbem.eu">school2026@eisbem.eu</a> including:

- A short Curriculum Vitae
- Scientific interest of the candidate
- Students: a letter of recommendation of a Senior Scientist

#### Deadline:

December 31, 2025

Accepted candidates will be informed by e-mail.

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# **Course Program at glance**

Saturday, May 2

Arrival and accommodation

Sunday, May 3

Course opening
Welcome to participants
Introductory lesson
Photonic sensing
Photonic Biosensors/1

Monday, May 4

Photonic Biosensors/2

Terahertz sensing

Tuesday, May 5

Systems for exposure and therapy

Microwave systems for sensing and interaction

**Excursion** 

Wednesday, May 6

Microwave exposure and radiation

Wearable and ingestible devices for sensing and energy transfer and harvesting

Poster session

Course dinner and Poster award

Thursday, May 7

Ongoing research projects

Lunch and Departure

For update version of the Program, visit our website (www.eisbem.eu)

#### **LOCATION AND STRUCTURES**

In Erice, ancient monasteries and churches have been restored to host scientists and meetings. Headquarters, offices, accommodations and lecture halls are in these renovated spaces, maintaining their original

charm.







#### WHY COME TO ERICE

#### **Inspiring Setting**

Erice's ancient city and stunning vistas offer a serene atmosphere

#### Rich Cultural Heritage

Experience Sicily's unique blend of history and culture while participating in cuttingedge research

### World-Class Facility

The Centre hosts renowned scientists, fostering collaboration in top-tier fields

#### **Global Networking**

An international community of experts devoted to advancing science and technology in a prestigious venue

