



International School of Bioelectromagnetism “Alessandro Chiabrera”

School Directors: *Ferdinando Bersani (University of Bologna, Italy) and Maria Rosaria Scarfi (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

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Co-organized with  BioEM

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

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

***BioEM members will benefit of € 100 discount**

Application:

Interested candidates should send an e-mail to the Director of the Course at

school2026@eisbem.eu

including:

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

Deadline:

- **December 31, 2025**
- **February 15th, 2026**

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

Microwave 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

World-Class Facility

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

Rich Cultural Heritage

Experience Sicily's unique blend of history and culture while participating in cutting-edge research

Global Networking

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

