

9th International THz-Bio Workshop
April 19 – 23, 2021

The millimeter wave and terahertz regions are frontier areas for research in physics, chemistry, materials science, biophysics, biology, and medicine. The interest in novel imaging, sensing and spectroscopy in the above communities has grown steadily during the past twenty years, as new instrumentation, as well as new techniques and new applications have become available.

In 2010 a workshop series entitled "International THz-Bio Workshop" started in Korea with the support of the Ministry of Education, Science and Technology. In 2016 its international organizing committee was encouraged to consider a rotation of this workshop series between different geographical areas. It was then decided to host the THz-Bio Workshop 2017 at ENEA-Frascati in Italy. After the success of this event it was decided to hold the 9th International THz-Bio Workshop at the "Ettore Majorana Foundation and Centre for Scientific Culture" in Erice, Sicily from April 30 to May 3, 2020, in the frame of the activities of the Erice International School of Bioelectromagnetism. Following the outbreak of the Covid-19 pandemic, several attempts were made to reschedule the workshop dates, still maintaining the possibility to hold the meeting in person. In spite of this effort, and in order not to miss the opportunity of this event for the scientific community, we finally decided to hold the THz-Bio Workshop exclusively online.

To allow for the widest participation, the Workshop is now organized in five days, from Monday, April 19 to Friday April 23, 2021. As a result, the new program includes 51 presentations (19 Keynote, 20 Oral and 11 Poster) distributed over 15 technical sessions covering a variety of scientific issues in the Terahertz and adjacent parts of the Infrared and Microwave spectral regions, ranging from Spectroscopy and Mechanisms of Interaction to Biological Effects, Biomedical Imaging and Medical Applications, as well as 5G Technology. Two of the above sessions are devoted to an overview of the Attract project, recently funded by the EU (Grant No 777222) to cover technological aspects of THz radiation.

We hope that the Workshop can provide an opportunity for discussion, stimulate further studies, and contribute to the development of this exciting field of research.

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