

My Vision on BioEM Society

Our BioEM Society has a long and glorious history dating back to the days of BEMS and EBFA. It is now the world's largest and most recognized society in the research area of interactions of electromagnetic fields with biological systems. It mainly covers two topics: one is the biological effects and safety of electromagnetic fields, and the other is their applications in medicine. In recent years, however, research funding in the field of bio-safety has been reduced in many countries, resulting in a decline in the number of members and related research activities of our Society. On the other hand, the medical and healthcare applications of electromagnetic fields have been attracting much attention due to the aging of society on a global scale. Considering such a situation, I think as follows.

First, efforts should be made to further strengthen the area of biological effects and safety of electromagnetic fields, which is one of the most distinctive features of our Society. It is important to strengthen ties with ICNIRP, IEEE ICES, etc., and promote various workshops, tutorials, and special sessions with these organizations the BioEM Annual Meetings. This will help maintain and enhance the Society's position as the most prestigious society in this research area.

While maintaining conventional biological effects and safety studies of electromagnetic fields, we should also expand the area covered by our Society to include applications of electromagnetic fields in medical therapy and healthcare. Engineering aspects such as bio-signal detection and sensing technology and wireless technology in the living body could also be new topics for our Society. A first step would be to actively collaborate the BioEM Annual Meetings with other small international conferences related to these topics.

In addition, activities in Asia and developing countries and the recruitment of young researchers should be further strengthened to increase the visibility and membership of our Society. Ideally, about 1/3 of the Society's members are from these countries or are young researchers.