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Dear Colleagues,

On behalf of the organizing committee, I am pleased to extend the warmest welcome to all participants and guests to The Joint Meeting of 5<sup>th</sup> International Conference on Bioelectromagnetism and the 5<sup>th</sup> International Symposium on Noninvasive Functional Source Imaging within the Human Brain and Heart (BEM&NFSI'05).

The scientific program of the Joint Meeting includes approximately 120 scientific presentations. These presentations include keynote and plenary talks reviewing important areas of general interest to the participants, invited oral sessions addressing exciting topics in the field, and submissions. The Joint Meeting aims to provide a platform for scientific exchange of novel ideas on recent developments in the field of bioelectromagnetism and functional source imaging. The emphasis is on the methodological developments as related to bioelectromagnetism and functional source imaging, in the broadest sense.

Bioelectromagnetism, a well established scientific discipline, has been experiencing rapid development in the past decade, including measurements, modeling, and various techniques utilizing or replying upon bioelectromagnetic signals. Of particular interest are the innovative applications of bioelectromagnetic measurements to functional source imaging – a rapidly growing field which has shown great promises for providing high resolution spatio-temporal imaging of electrical sources within the organ systems that can be sensed by means of electrical and magnetic sensors. It is a true pleasure that we are having a very strong scientific program in this rapidly evolving field.

The 2005 BEM&NFSI Joint Meeting is sponsored by the International Society of Bioelectromagnetism and the NFSI Group, co-sponsored by the University of Minnesota, technically co-sponsored by the IEEE Engineering in Medicine and Biology Society, and endorsed by the International Federation for Medical and Biological Engineering.

We are grateful to the Whitaker Foundation, the Biomedical Engineering Institute at the University of Minnesota, and Medtronic, Inc. for generous financial sponsorship. The list of other sponsors/exhibitors can be found in the Abstract Book of the Conference and the sponsor section of this CD.

The success of the conference depends to a large extent upon the dedicated team efforts of many volunteers. I would like to thank all the conference organizing committee members and session organizers for working so hard and for the job well done. I would also like to thank all authors for their scientific contributions.

Sincerely yours,

Bin He  
Conference General Chair