

**Measurement, simulation and mitigation  
of environmental magnetic and electric fields  
due to low-frequency sources ( $f < 100$  kHz)**

**ORGANIZED BY**

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This special session focuses on the measurement, modeling, simulation and mitigation of environmental magnetic and electric fields generated by low-frequency sources ( $f < 100$  kHz). The session aims to bring together researchers working on theoretical, numerical, and experimental approaches for the characterization of low-frequency electric and magnetic fields in residential, industrial, and urban environments. Particular attention will be given to advanced measurement techniques, validated simulation methods, and innovative mitigation strategies, including shielding, source optimization, and field reduction techniques. Contributions addressing regulatory aspects, exposure assessment, and compliance with international standards are also welcome. The session seeks to foster interdisciplinary discussion and to promote the exchange of best practices and emerging solutions for reducing human and equipment exposure to low-frequency electromagnetic fields.

