

# 4<sup>th</sup> International Conference on Earth Science & Climate Change

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### Air ions: Influences on microclimate modifications and the interactions with human physiology

The atmospheric electric charge plays an important role both on the climate genesis and on the weather evolution. And it is a parameter to measure air pollution, mainly in confined environment. A high correlation can be shown between the electric conductivity of the low atmosphere and the air ionization, which determines the formation of the microclimate in which the man lives. At the same time, we can exhibit a model that is able to focus on the importance of the amount of positive and negative ions in influencing both the physiological parameters that the behavioral ones in man. New profiles of research demand new techniques of measurement to improve the results already obtained and to get a better control of the phenomenological aspects; in order to build models or theories that can give a deeper insight of many interaction mechanisms. The models we are working on need to be checked by a measure instrument with a higher resolving power, thus we are preparing an advanced electronics device to reveal and measure air ions, their electric current and other important parameters. About this instrument, it will be the "Generation II" of another one, that already got appreciable results in researches performed for all these years: the goal is to improve the general performances; mainly, to reach a resolving power up to a 10 Fenton Ampere current (10-5 nA).

### Biography

Massimo Scalia is the Founder of Centro Studi di Biometeorologia, 1997 in Rome. Now he is working in CIRPS.

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