

AVVISO DI SEMINARIO

Martedì 13 dicembre ore 15:30

in aula seminari del Dipartimento di Scienze e Tecnologie
Chimiche

Dr Andrey Legin

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terranno un seminario dal titolo:

RECENT SELECTED APPLICATIONS OF ARTIFICIAL SENSORY SYSTEMS

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ABSTRACT

In the recent years the term “Electronic Tongue” widely applied to describe sensor systems for liquid analysis became somewhat ambiguous and misleading in certain cases. Totally new problems were put forward and successfully sorted out and new practical applications of the sensor arrays were suggested. The ET evolved to artificial sensory systems. The present lecture deals with selected results obtained in the recent years in the field of environmental and pharmaceutical analysis by artificial sensory systems. Nice sensitivity to targeted analytes was obtained and the output of sensor systems was correlated not only to taste and flavour characteristics perceived by humans but also to the perception of other mammals, microorganisms, bacteria and even plants. Sensor systems perform well in all these proving that they can predict not only the estimates of taste but also those of the other important attributes, e.g. toxicity of the media in a way it is assessed by biological organisms. Several recent examples of performance of artificial sensory systems will be demonstrated and discussed.