

ANNUNCIO DI SEMINARIO

Venerdì 29 settembre 2017, ore 11:00

Aula 3 del Polididattico

Viale delle Scienze, Edificio 19, Palermo

Il Prof. Dimitrios Koliopoulos

Full Professor, Science Education and Science Museum Education, Department of Educational Sciences and Early Childhood Education– University of Patras (Greece)

terrà un seminario su

***Introducing History of Science elements in the teaching of
Physics***

Abstract

In this seminar, I will present several reviews in regard to the advantages and risks in introducing historical and epistemological elements in physics teaching and I will discuss the different ways for the introduction of such elements in physics curriculum. At the same time, I will describe two cases of introduction of the history of physics into physics instruction in secondary education ('the teaching of the simple pendulum' and 'the teaching of the Millikan-Ehrenhaft dispute over the existence of the elementary electric charge'). These two studies are based on short extracts from historical texts that are used in motivating the students to participate in problem solving activities and transform their alternative conceptions about the conceptual, methodological and cultural physics knowledge relative to these two teaching interventions.

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