



Liceo statale 'Melchiorre Gioia'

Classico – Linguistico – Scientifico

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Corso di aggiornamento CLIL

AREA SCIENTIFICA

Organizzato in collaborazione con il Dipartimento di Scienze Matematiche, Fisiche ed Informatiche, Università di Parma- Referente: Prof.ssa Stefania Abbruzzetti

Conferenze in lingua inglese su argomenti di matematica, fisica e scienze.

Focus on language nel corso delle conferenze a cura dei docenti del dipartimento di Lingua Inglese del Liceo "M. Gioia"- Referente Prof.ssa Cecilia Cugini.

Le conferenze si terranno presso il Liceo "M. Gioia" di Piacenza nelle date indicate dalle ore 14.30 alle 16.30.

Inviare la scheda di adesione allegata via mail all'indirizzo clil@liceogioia.it

PROGRAMMA DEL CORSO

Title	Author	Date	Area
Potatoes, mirrors and witches' hats	Prof. Emilio Acerbi Dipartimento di Scienze matematiche, Fisiche e Informatiche	February 2 nd , 2017	Maths
Throwing light on life. A brief introduction on the use of light to study biological processes.	Prof. Cristiano Viappiani Dipartimento di Scienze matematiche, Fisiche e Informatiche	March 3 rd 2017	Biophysics
Einstein's legacy: why do we study general relativity 100 years later	Dr. Sebastiano Bernuzzi Dipartimento di Scienze matematiche, Fisiche e Informatiche	March 10 th , 2017	Theoretical Physics

Ideas put in practice. How a drug gets to the pharmacy.	Dott. Giovanni Caponetti Eratech - Piacenza	March 17 th , 2017	Chemistry and Biology
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Thursday, February 2nd, 2017

Prof. Emilio Acerbi

Potatoes, mirrors and witches' hats

Abstract

How a simple problem may evolve into a very complex and deep one. Notwithstanding, also non professionals and even students from the fourth year up may follow the lines of the proof of the isoperimetric problem, and understand some of its subtleties and its implications for everyday life.

Friday, March 3rd, 2017

Prof. Cristiano Viappiani

Throwing light on life.

A brief introduction on the use of light to study biological processes.

Abstract

The interaction of light with matter has been exploited to gain understanding on a variety of natural phenomena and processes. Among others, it is particularly relevant the use of electromagnetic waves to study properties of biological processes. After a short introduction on the general aspects of the interaction of light with organic compounds, a purely quantum mechanical event, a phenomenological description of processes occurring after light absorption will be offered. Selected examples will be discussed, that highlight the power of light spectroscopy and microscopy in the detection of functional properties of biological macromolecules, morphological features of cellular structures, or physiological processes like gene expression, to name just a few.

Friday, March 10th, 2017

Dr. Sebastiano Bernuzzi

Einstein's legacy: why do we study general relativity 100 years later

Abstract

100 years after its conception, Einstein's General Relativity is still the main theory of the gravitational interaction. We will review some of the successes of the theory as well as its modern applications, from astrophysics to the localization system (GPS) in use on our smartphones.

Friday, March 17th, 2017

Dott. Giovanni Caponetti

Ideas put in practice. How a drug gets to pharmacy

Abstract

The development of a pharmaceutical product is a very complex process. It requires studies that could last several years to guarantee that a drug is safe and effective once it reaches the bench of a pharmacy. According to the type of product under development, different paths can be followed. We will highlight the most relevant of these paths and we will clarify some of common misconceptions on drugs and the pharmaceutical industry.

SCHEDA DI ADESIONE

Cognome e Nome:		
Scuola di docenza:		
e-mail personale		
Numero di telefono		
CONFERENZE		
Data	Relatore e Titolo	Apporre X
2 febbraio 2017 h. 14.30-16.30	Prof. Emilio Acerbi Potatoes, mirrors and witches' hats	
3 marzo 2017 h. 14.30-16.30	Prof. Cristiano Viappiani Throwing light on life. A brief introduction on the use of light to study biological processes.	
10 marzo 2017 h. 14.30-16.30	Dr. Sebastiano Bernuzzi Einstein's legacy: why do we study general relativity 100 years later	
17 marzo 2017 h. 14.30-16.30	Dott. Giovanni Caponetti Ideas put in practice. How a drug gets to pharmacy	