

# 3rd EPS Young Minds Leadership Meeting



**6th of June, Paris**

Diego González

# Valladolid EPS Young Minds Section

## Current Members

- María Teresa Belmonte (PhD Student)
- Arturo García (Student)
- Alejandro Gloriani (PhD Student)
- Beatriz González (PhD Student)
- Diego González (PhD Student)



We hope that in the following months some people who have collaborated with us will join the section

# Our first year: Summary of activities

European Researchers Night

Playing with physics.

Cine Forum: *What the bleep do we know?*

A short tale about light

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## European Researchers Nighth

*25th of September, 2013. Science Museum (Valladolid)*

Audience: General public, especially children.

This activity was one of many organized in the Science Museum for that day.

Giant Bubbles: a set of the required tools to make giant bubbles.  
The children can make them themselves.

Non-newtonian fluid (Dancing Flubber): A Speaker with non-newtonian fluid (cornstarch with water), also they can touch the fluid and check by themselves how it behaves.



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## Playing with physics

*8th of November, 2013. Science Museum (Valladolid)*

Audience: General public, especially children.

Performace: After a brief introduction about physics, the audience has to guess different words related to physical phenomena. After the word is shown, a simple experiment related to this phenomenon is performed.



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## Playing with physics

- Electrostatic with balloons and other objects.
- Van der Graaf.
- The movement of air.
- What is pressure?
- How much Oxygen is there in air?
- Impossible equilibrium.
- The physics of the pendulum





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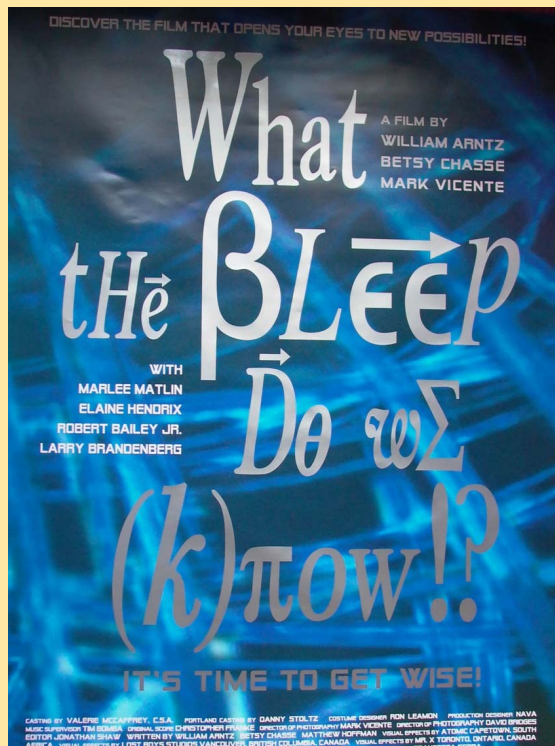
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## Film Forum: What the bleep do we know?



*1st of April, 2014. Science Museum (Valladolid)*

*In collaboration with the University of Valladolid and  
Science Museum of Valladolid.*

As a part of the cycle “Increible pero falso”  
(Unbelievable but false), organised Museum of science  
of Valladolid.

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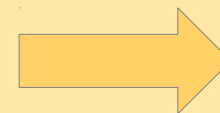
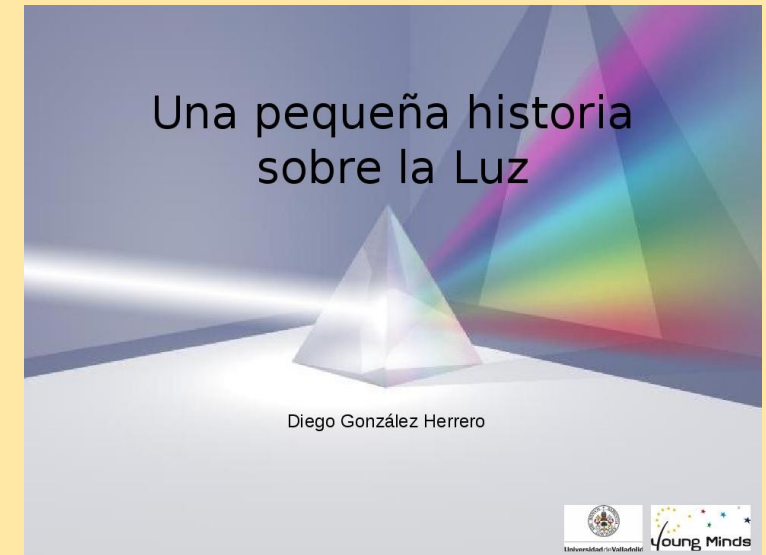
## A short tale about light

6th of May, 2014. School "Blanca de Castilla"  
(Palencia)

The evolution of the main light theories, from the Ancient Greeks until the 20<sup>th</sup> century, showing some experiments to help the understanding of the explanation.

- Reflection
- Refraction (total refraction, optical fiber...)
- The human eye: ¿How does it works?

- Young's Experiment.



Using a ray-tracing Kit

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# Our first year: Appearance in the media

martes, 27 de mayo de 2014

## Diario Palentino.es

Portada Local Provincia Región Actualidad Deportes Galerías 

### "FILIPENSES" VE LA LUZ DESDE OTRA PERSPECTIVA

Javier Burón - martes, 06 de mayo de 2014

Compartir >>

 Me gusta  Compartir 51

 Twittear 0

 +1 0



 0 comentarios

 Imprime esta página

“

Cuenta la leyenda que cuando Roma trataba de invadir Siracusa, Arquímedes, vecino más ilustre de la población siciliana, decidió poner a prueba sus conocimientos intentando batir al enemigo sin las armas habituales y utilizando únicamente la luz del sol y unos espejos gigantescos para concentrarla sobre los barcos invasores. Y cuenta la leyenda que dichos barcos ardieron uno tras otro ante semejante ingenio.

Cierto o no, los conceptos de óptica que utilizó Arquímedes en el siglo III a.C. siguen siendo objeto de estudio e investigación en las universidades, y ayer por la tarde lo fueron en el colegio Blanca de Castilla Filipenses de la mano de **Diego González**, licenciado en Física y doctorando especializado en óptica en la Universidad de Valladolid.

«Les he explicado a los chicos la historia de la luz, su naturaleza, mediante experimentos y juegos, de forma que puedan verlo de verdad», cuenta González. «Todas las teorías que han existido, de onda a corpúsculo, de corpúsculo a onda». Porque, al contrario de lo que a veces se piensa, la óptica no se reduce en absoluto a poner gafas y lentillas. «Está directamente relacionada con la física y todo lo que investigamos tiene aplicaciones en la vida diaria», aclara. En cuanto a iniciativas como estas, ya desde el Bachillerato, no lo duda. «Yo no pisé un laboratorio hasta que no llegué a la Universidad, y eché de menos algo así. Por eso, colaboro con colegios y museos desde mi organización **Young Minds**».

Esta charla se ha podido llevar a cabo gracias al programa Comenius de la UE, un convenio



El físico Diego González con los alumnos del 'Blanca de Castilla' participantes en el Programa Comenius. DP

> **Encuentro Digital** Miércoles, día 28. A las 10 horas

 Natxo Lezkano  
Entrenador del Quesos Cerrato  
Palencia  
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# Our first Year: Appearance in the media



<http://www.cadenaser.com/emisora/valladolid/radio-valladolid/>





# Our first Year: Appearance in the media



<http://www.rtvcy1.es/>

# Upcoming activities

- Debate sessions:
- Researchers Night 2014
- Streaming of Nobel Price ceremony.
- Secondary School talks.
- Keep up the collaboration with the Science Museum.

That's all folks..

Thanks for your attention