eXPERimENTA

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Organized by:

Vniversitat de València · Facultat de Física

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22 Fair Contest

Of experiments and demonstrations of physics and technology

eXPERimENTA

Sunday, April 25, 2027

From 10 to 13h | Museu de les Ciències de València

Realize your idea, make it work and explain it at a fair open to the public.

Secondary education (7-12 grades) · Inscription deadline: 24 January

Organized by: Vniversitat de València · Facultat de Física

www.uv.es/experimenta · @FiraExperimenta

Scan Me:

The School of Physics of the University of Valencia (UVEG) announces the **22th eXPERimenTA Fair - Contest of Experiments and Demonstrations of Physics and Technology 2027**, with the aim of bringing science and technology to the public, especially involving the younger audience.

Secondary school students who participate must carry out **STEM experimental projects** that, once completed, are exhibited and explained in this fair open to the public, highlighting the relationships between natural phenomena and technological applications that surround us, that is, between physics and technology.

We convened the **eXPERimenTA Fair - Contest** for the first time in 2005 with the aim of involving students in the World Year of Physics in an active and creative way. The enthusiasm of contestants and visitors was extraordinary and contributed to transform it into an annual event.

WHO CAN PARTICIPATE?

Any secondary school student (ESO-FP*, Bachillerato - Ciclos Formativos de Grado Medio**), individually or in **groups of a maximum of 4 members.** Each group must be **supervised by teachers** from their school to develop the project. Several groups from the same school may participate, as long as their projects are completely different and no more than 3 from the same level are presented.

* ESO= junior high school (from 12 to 15 years old) or equivalent
* Bach= senior high school (from 16 to 18 years old) or equivalent

WHAT KIND OF PROJECT CAN BE PRESENTED?

Any **experimental STEM project** that demonstrates, at a qualitative and/or quantitative level, a physical principle and its technological application, and especially its interrelation. **ATTENTION**: this is not a written, video or simulation work. An experimental set-up with any type of material must be carried out. Students should understand how it works and the underlying physical principles, make observations and/or measurements, etc. It is not essential that the idea is unpublished, although its originality and quality will be an asset. **Two competition categories** are established, which are subdivided into two secondary education cycles. The registration of a project to one of these two categories depends on its character and not on the tutors' teaching adscription:

1. **Physics demonstrations and experiments (ESO-FP* and Bachillerato-CFGM**).**
2. **Technological applications projects (ESO-FP and Bachillerato-CFGM).**

WHEN? HOW?

PHASE 1

On-line registration must be done until **24 January 2027** inclusive at **uv.es/experimenta**, including the participants data and **a description of the project** in **pdf**, using a form (**doc**/**ods**) that is available. This description should allow to understand the goals, as well as the basic aspects that support the project as well as the observations and the expected results and conclusions tan can be achieved.

PHASE 2

Once the review process and any corrections have been completed, admission will be communicated by email and a list will be published on our website **uv.es/experimenta**. Admitted projects should send a **5 minutes (maximum) video** presenting and explaining their work, as a preliminary material for the jury, with a deadline **20 April 2027.**

PHASE 3

The students involved in the accepted projects will exhibit and explain them in person at the **Fair-Contest** on Sunday**, April 25, 2027 at the Science Museum of Valencia**, both to the visiting public and to the jury groups of university professors and high school teachers. **The proper functioning and the clarity and understanding of their work (students' explanations for 10 minutes maximum)** will be highly valued. The awards ceremony will be held at the Science Museum auditorium just after the closing of the Fair.

WHAT ABOUT THE PRIZES?

A total of five prizes will be awarded: one per contest category (four in total, decided by the jury), of **150 € per person** and another of **100 € per person** to most voted project by the visiting public (person = participating student registered in a project). Various **honorable mentions** will also be awarded. The jury reserves the right to award two prizes in a category to the same schooling cycle, or to leave one of them vacant. Awards and diplomas will only be given to students who participate in all three phases mentioned above.

WHAT ABOUT TEACHERS AND SCHOOLS?

Prizes will be awarded to teachers with winner projects: **experimental teaching materials,** as well as participation and prize diplomas. Their work associated with the supervision of the students and their projects exhibited at the fair-contest will be certified following an agreement with the local education authorities. Details will be announced in due course at **uv.es/experimenta**.

EXHIBITION OF AWARDED PROJECTS AND ON-LINE MATERIALS

EXPERIMENTA TOP, an exhibition of **awarded projects** open to the public, will take place at a later date. Professional **videos** of the students explaining their projects will be recorded. These videos and the attached project descriptions will be **published on-line** as teaching and dissemination materials. (https://go.uv.es/experimenta/materiales)

YOU CAN ALSO BE...

Katharine Burr Blodgett

An American physicist and inventor who worked at General Electric Laboratories on a wide range of topics and held several patents. She is best known for inventing the anti-reflective coating that is now used on the lenses of our eyeglasses and many optical instruments, as well as for the Langmuir-Blodgett method of thin-film deposition.