



  
THE RULES OF SCIENCE AND TECHNOLOGY CONTEST  
FOR HIGH SCHOOL STUDENTS  
“**FLORIN VASILESCU**”

1. The "Florin Vasilescu" Contest of Science and Technology is the first interdisciplinary contest of high school students from Romania, initiated in 1998 by the School Inspectorate of Călărași County, in collaboration with the "Initiative Group for Physics Education - GIIF" and the Romanian Physical Society (SRF). The initiative committee of the contest also included representatives of the County School Inspectorates Ialomița, Teleorman, Giurgiu, Sibiu and Mehedinți.

The contest is organized by the Călărași County School Inspectorate, with the financial support of the Călărași County Council, granted on the basis of Art. 112 of Law 1/2011.

## 2. Scope and objectives

### *Scope*

*The "Florin Vasilescu" Science and Technology Contest is a competition that scope is to promote the creative and innovative spirit of students in science and technology and is addressed to high school students.*

### *Objectives:*

The contest aims to stimulate:

- Developing the ability of high school students to identify problems in their area of life that can be solved using scientific and technical knowledge, proposing interdisciplinary solutions in the field of mathematics, science and technology.
- The affirmation of young people with investigative-applicative concerns in the fields of physics, chemistry, biology, informatics, engineering, mathematics applied by popularizing the most significant works present in the competition.
- Teamwork skills and the development of individual competencies in Computerized Information Technology in particular, but also linguistic, social and civic competences, cultural expression and entrepreneurship in general.

### Parteneri:



Primăria Municipiului Călărași  
Consiliul Local al Municipiului Călărași

Muzeul Municipal Călărași



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### 3. Structure of the contest:

#### Section: Science and Technique

The contest consists of the presentation by the participating team, in front of a jury, with the most appropriate visual and hearing means, of a project / work with a predominantly innovative character.

The presentation time allocated to each team is 15 minutes plus 5 minutes for questions and answers.

The team will present the project / paper work to the jury.

A summary of max. 2 pages will be submitted online, on a date set by the organizing committee (at least two weeks before the date of the competition) so that it can be included in the competition bulletin.

The themes of the selected papers will fall into at least two of the seven scientific areas:

Physics

Chemistry

Biological Sciences

Applied mathematics

Environment protection

Engineering

Information technologies

#### Section Science and Art

An exhibition of students' works (painting, graphics, photographic art, modeling, sculpture, digital art, etc.) inspired by science and technology will be organized.

Works with the highest number of votes will be awarded.

### 4. Continuity:

Apart from highlighting the scientific and technical skills of young people, Florin Vasilescu's Science and Technique Competition for students also develops the necessary skills in the development and realization of projects with implications for the youth communities. The organizers of the contest aim to popularize the best projects for their knowledge by research institutes, universities, regional development agencies, environmental agencies, companies etc.

Attempts will be made for the best works to take part in European science and technology competitions for students.

### 5. Terms of Participation:

■ The participating teams will consist of a maximum of 4 pupils aged between 15 and 19 and two teachers.

■ The paper must fall within the field of study MAST (Mathematics-Sciences-Technologies)

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- Each team will work on a topic of scientific and technical content with a preponderantly applicative character with immediate utility, or to respond to specific issues of some communities. Also covered are topics that represent long-lasting concerns of students (within the circles), the approach of which requires the use of knowledge of physics, chemistry, biology, mathematics, technologies.
- Collaborations with various institutions are encouraged to find the best solutions. It must be clear from the work the original part of it and the parts taken from other works
- Selection at the county level is the responsibility of each school inspectorate.

## 6. Organizarea concursului

Se constituie un comitet de organizare aflat sub coordonarea inspectorului școlar general.

- The organizing committee will be responsible for:
  - Ensuring decent dining and accommodation conditions for participants;
  - making available to the participants the requested technical means;
  - establishing the venue and the time of the contest;
  - popularizing the contest through the media;
  - awarding the most valuable works.

## 7. Running the contest

- The student projects admitted to the competition will be submitted to the jury in an order established by drawing lots. Attendance teams can also participate in the draw.
- The student projects will be presented to a jury of specialists who have the task of selecting the best works to be awarded by the organizers.
- Each team has the obligation to hand over at least one copy of the paper work to the Chairman of the Judging Commission at the beginning of the presentation.
- The presentation of the project will be within 15 minutes, 5 minutes being allocated to the discussion. It may also be accompanied by audio-visual support.

## 8. Establishment of committees:

- **The organizing committee consists of:** 1 chairman, 1 executive chairman, 1 secretary, members. They come from among the inspectors / directors of the host county, the members of the GIIF Foundation, the accounting department of School Inspectorate of Călărași County, teachers, other initiators of the contest or experienced in organizing such events.
- **The pre-selection committee** consists of at least 3 members of the organizing committee who will not have students in the competition.
- **The Jury made up** of at least 3 specialists with science and technology concerns, without having any contact with the students in the competition. The jury will be made up of a president, a university professor and / or a doctor of science, a vice-president, a scientific secretary.

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- The members of the Jury will be invited in writing by the Chairman of the Organizing Committee.
- **The Board of Appeal** is made up of the Chair of the Jury, the Secretary of the Jury, and the Secretary of the Organizing Committee.

#### 9. Criteria for judging works:

The judging criteria can be found in the individual evaluation sheets of the jury members. Criteria for judging are brought to the attention of all participants.

Au fost convenite, pe parcursul anilor, trei categorii de criterii după cum urmează:

##### a) CONTENT AND RESULTS OF THE PROJECT

- Importance, timeliness and applicability
- Originality of the work;
- Consistency and complexity

- Portfolio quality, results and conclusions

##### b) APPROVED METHODS AND TECHNIQUES

- Interdisciplinarity
- Techniques and means of presentation / communication
- Teamwork

##### c) ORAL PRESENTATION

- Synthesis and clarity of exposure
- Quality of results expressed by layouts / products
- Originality of the presentation

#### 10. Appeals:

Appeals may only be made in respect of any non-compliance with the Regulation and they are addressed to the Secretary of the Organizing Committee, who may request the interruption of the competition and the convocation of the Appeals Board. No objections may be made to the assessment of the works submitted in the competition.

The opponent will receive a written answer the same day. The decision of the Appeals Commission is final.

#### 11. The operation of the jury:

- The jury will meet at least half an hour before the start of the contest in order to receive the evaluation sheets and to establish internal rules.
- Throughout the competition all members of the committee will attend all the papers presented.
- Members of the committee may ask questions to the teams, and the jury president may ask the public to ask questions.
- The jury will meet in plenary after the competition is over.
- The committee chairman asks each member of the jury for the scores and assessments for each paper presented in the contest.
- The total score of a work consists of the sum of the scores of each member of the jury.

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In the deliberations, a member of the Organizing Committee may participate as an observer.

Announcement of the results of the contest will be made immediately after the completion of the judging works.

## 12. Prizes that can be awarded

Depending on the topics covered by the works, the following subsections may be formed:

### I. Science and Technique

- a) Environmental protection and renewable energy sources
- b) Innovation and technological creation for the future
- c) Teaching laboratories' endowment projects

For each of sub-sections a), b) and c) shall be granted

- 1 Prize I, 1 Prize II, 1 Prize III, 1 Mention
- Grand prize of the contest: 1500 Lei

### II. Science and art

The projects will be exhibited to the public in the preview of the contest.

In the enrollment file on <https://docs.google.com/spreadsheets>, participants will specify the conditions they require for the exposure of the papers.

The prizes to be awarded are:

- 1 Prize I, 1 Prize II, 1 Prize III, 3 Mentions

The total amount allocated to the awards is 11500 Lei.

## 13. Financing sources:

- The prize money will be determined annually by the organizing committee and the opinion of the Călărași County Council, the main sponsor of the contest.
- There will be use of financial resources from projects, budget allocations or sponsorships.
- G.I.I.F. will identify other sources of extra-budgetary funding.
- Companies that sponsor the contest will have the right to advertise throughout the contest.
- Publishers wishing to open a book stand at the contest will be required to participate in sponsorship actions.

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