



## Sociedade Portuguesa de Física

### World Year of Physics

#### Final Report: 1 January - 30 December 2005

##### P19.1 - Calendars

During 2004 we advertised in all secondary schools this contest. The objective was to design a calendar where in each month facts and dates related to great physicists and to physics discoveries would be marked. The project was to be carried out by all students in a single class under the supervision of their physics teachers.

The prizes were awarded in a public ceremony presided by the Portuguese President of Republic, that took place in Lisbon, at the secondary school “Maria Amália Vaz de Carvalho”, on the 14<sup>th</sup> of March 2005. Professor Martial Ducloy was an invited guest for this event which also marked the official opening of the WYP in Portugal.

The winners were:

- 1st - “Escola Padre Benjamim Salgado”  
Vila Nova de Famalicão  
Classe 11B  
Teacher: Atila Gören
  
- 2nd - “Escola Calazães Duarte”  
Marinha Grande  
Classe 12 I  
Teacher: José Rogério Nogueira
  
- 3rd - “Escola de Gondomar”  
Gondomar  
Classe 12 1 and 2  
Teacher: Ana Miranda
  
- 4th - “Escola de Monserrate”  
Viana do Castelo  
Classe 11H  
Teacher Maria Luísa de Castro

The prizes were: a computer Desk-top for each class; CD, DVD and books for every student; and full expenses to cover the participation in the Bern EPS conference for the teachers.

An edition of the first prize calendar, for the school year 2005/06, was distributed, at the end of August, freely to all secondary schools in Portugal.



### P19.2.2 – Eureka

In January 2005 we invited all school students to submit experimental physics projects to a competition named EUREKA. Each competing team would be formed by three students, at most, under the supervision of a teacher. To take care of the normal differences in knowledge and age of the students the competitors were divided in two groups according to their school level: A and B. In each class there were two prizes. One for what we have called “Demonstration” and the other called “Experimentation”.

The 30 finalists performed their experiments on the 21<sup>st</sup> of October in the Science Park “Visionarium”, in Feira, in the presence of the jury. For this event we also invited all students from the same class of the finalists and their teachers.

The winners were:

- Demonstration – *Prémio Bartolomeu de Gusmão*
  - Class A:
    - Team name: *Einsteinteam*
    - Students: Filipe José Jesus Manco  
Vanessa Maria Pereira Saramago  
Vitor Hugo Miranda Almeida
    - Work: *Constituição do olho humano*
    - Teacher: Liliana dos Santos
    - Escola Secundária/3<sup>a</sup> Ciclo Dr.<sup>a</sup> Maria Cândida – Mira  
Rua Óscar Moreira da Silva  
3070-211 Mira
  - Class B:
    - Team name: *Finado bem tirinho*
    - Students: Francisco Gaspar  
Ivo Rosa  
Gustavo Simões
    - Work: *Produção de H<sub>2</sub> a partir da Energia Solar*
    - Teacher: Anabela Pestana
    - Escola Secundária Martinho-Árias de Soure  
Quinta das Nogueiras  
3130-211 - Soure



- Experimentation – *Prémio Manuel Valadares*
  - Class A:
    - Team name: *As Craques da Física*
    - Students: Marie-Lise Santos  
Maria da Conceição Moreira  
Vera Mónica Lourenço S. Lisboa
    - Work: *A Importância do Vestuário para conforto térmico humano*
    - Teacher: Maria Goretti Rocha
    - Escola E.B. 2,3 Milheirós de Poiares  
Rua Casa da Mámoa, 182  
3700-739 Milheirós de Poiares
  - Class B:
    - Team name: *CATHERAM*
    - Students: Márcio Esteves Lima  
Fabiola N. Fernandes Costa  
Tiago Ferreira Queiroz
    - Work : *Determinação de g*
    - Teacher: José Manuel Costa Leme
    - Escola EB 2,3/S de Lanheses  
Quinta da Barrosa  
4925-404 Lanheses
    - Team name: *Velocidade Furiosa*
    - Students: Miguel Ângelo Mendes Oliveira  
Tiago André Tinoco Vaz  
José Miguel A. Ramos Silva
    - Work: *Hot Wheels Formula Fuelers*
    - Teacher: Attila Gören
    - Escola Secundária Padre Benjamim Salgado  
Rua dos Estudantes  
4770-270 Joane

The prizes were: a personal computer for each team-leader (teacher); CD, DVD and books for every student; and full expenses to cover a visit to the Science Museum of London for the five winning teams (students and teachers).



### P19.3 – Prize for Physics Teachers

Through a direct mailing to all members of the “Sociedade Portuguesa de Física”, posters sent to all schools and advertisements published in our journal and the general press, we invited teachers, school directors, parents, students and the public in general to nominate candidates for the prize “Rómulo de Carvalho”. Rómulo de Carvalho was a well known and very good physics teacher and for this reason the prize was named after him.

The closing date for receiving nominations was 31 of July. There were 27 nominees. A jury, presided by Prof. Fernandes Thomaz, former president of the SPF, and including Prof. Augusto Barroso and Prof. Maria Odete Valente, from the Physics and Education Departments of the University of Lisbon, respectively, visited the schools of the nominees and in each one interviewed the school director, the coordinator of the science department, three or four students or former students of the candidate and the candidate. The results were announced and the prizes awarded in Porto on the 2<sup>nd</sup> of December, during the general meeting of the SPF. The winners were:

- First Prize ex-eco:

Ana Carla Campos  
Escola Secundária Afonso Sanches – Vila do Conde

Regina dos Anjos Sousa Gouveia  
Escola Secundária Carolina Michaëlis - Porto

Alexandre José Costa Ferreira  
Escola Secundária de Loulé - Loulé

- Special Mentions:

Carla Maria Serra Ribeiro da Silva Baptista  
Escola Secundária da Amadora - Amadora

Carlos Bernardino  
Colégio Manuel Bernardes – Lisboa

Carlos Alberto Freitas Portela  
Escola Secundária c/ 3<sup>o</sup> CEB Dr. Joaquim de Carvalho – Figueira da Foz

Maria da Luz de Deus Castro  
Escola Secundária de D. Dinis - Lisboa

Paulo Gandra Santos  
EB 2,3 S. Pedro da Cova - Gondomar

The winners received a Diploma and a cash prize of five thousand Euros, each. Each of the runners up received a Diploma and a personal computer.



#### **P19.4 – Science Colloquia in Schools**

During the WYP our society promoted 250 physics colloquia in several secondary schools of the country, which were attended by around 15 000 students. A complete list with the names of the schools, the title and date of the colloquia and the name of the speakers can be found on our webpage. (<http://spf.pt>)

#### **FINANCIAL REPORT**

<b>Direct costs</b>	<b>124 804,83 €</b>
<b>Overheads (20%)</b>	<b><u>24 960,97 €</u></b>
<b>Total</b>	<b>149 765,80 €</b>

<b>First payment</b>	<b>75 000,00 €</b>
<b>To be paid</b>	<b><u>74 765,80 €</u></b>
	<b>149 765,80 €</b>