

ERASMUS+ 2017-1-ES01-KA219-038074_1
OUT OF THE DARK: ASTRONOMY AS UNIFYING THREAD FOR CULTURES.



TRANSNATIONAL MEETING.

FUENLABRADA, SPAIN. 25th to 30th OCTOBER 2017.

MINUTE 25th October 2017.

List of teachers
attending the meeting:

From Italy:
BURINI, DILETTA
CONCETTI, SABRINA
SORBELLI, BRUNELLA

From Sweden:
STRALBERG, ERIKA
MARIA
OSTERBERG, ANNA
KRISTIN
BILLBERG, ANN
JENNY

From Spain:
MORALES, ANA M.
MORALES, MARIA J.
MILLÁN, JOSÉ LUIS

AGENDA OF THE MEETING:

1. Welkome
2. Team work. First part: Project review including assessment done by the National Agency.
3. Carpe Diem. Presentation guided by students.
4. Coffee break
5. Taking decisions about the task, activities and transnational meetings with students.
6. Official reception at the Town Hall
7. Lunch
8. Cultural activities. Visiting Madrid

1. Welkome

We start our meeting at school introducing the people that take part in the project, subjects we teach, previous experience in international projects, short description of our school (number of students, number of teachers, etc.)

2. Team work. First part: Project review including assessment done by the National Agency.

We read the main parts of the project, especially those related to the distribution of activities and tasks. From the outset we agree that it is a pity that Poland leaves the project given its long experience in international projects, but the rest of the team will assume the tasks entrusted to





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the Polish team.

So we study the best division of tasks to find the optimal sequence of activities for the development of the project.

We also review the assessment with the aim of strengthening the weaknesses of the proposal. We agree that the most difficult point is how to consider social inclusion, given that family income, for example, supposes a sensitive information and should not be made public. We decide to think about that later.

3. Carpe Diem. Presentation guided by students.

We have a break at 11:10 to listen to a group of students that have been preparing a presentation with the help of their English teachers (Celia Álvarez, Rosa Piriz, Susana Pujades and Carmina, the language assistant) during the last weeks.

They talk about our neighborhood, our school and the main projects we are developing now: Sports specialization project, Project XXI (new methodologies in teaching such as interdisciplinary project-based learning and the use of IT), etc.

4. Coffee break

5. Taking decisions about the tasks, activities and transnational meetings with students.

In relation to the tasks we agree that:

- The Swedish team will assume the reading and writing contest that was supposed to be done in the third international meeting in Poland.
- The Italian team will be responsible for the evaluation of the complete project
- The Spanish team, as coordinator, will take charge of the website and dissemination.

It is discussed at this time if it is more convenient to keep four trips or is preferable to do only there, one to each participating country.

We consider that it could be more interesting to do four





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trips, so as to keep students involved in the project. So, we begin to think which country could be the one to replace Poland, given that this can suppose expenses and extra work.

We decide to think about this after consulting SEPIE and talking on the different teams, also with our colleagues.

6. Official reception at the Town Hall

We leave at 12:40 and we go to the Town Hall where the Mayor, Mr. Manuel Robles is waiting for us with Mrs. Carmen Seco and Mr. Gonzalo López.

They tell us about the town, its history and its main characteristics, the important citizen participation in the life of the town, etc.

7. Lunch

8. Cultural activities. Visiting Madrid

Since one of the main objectives in this kind of projects is to know other cultures and customs, we have prepared a visit to Madrid, where a guide will give us a small historical and cultural tour: origin and development of the city, historical avatars, architectural characteristics of some buildings, typical places in the life of the city, etc.

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AGENDA OF THE MEETING:

1. Team work.
2. Visiting the MDSCC – NASA in Robledo de Chavela.
3. Lunch
4. Team work.

1. Team work.

We start the second day of work. We have to decide how many mobilities we want to do. So we telephone the SEPIE and they recommend to do only three, one to each participating country.

Finally we agree that we will do three trips:

Date	Place	Activities	Participants
18-24/5 2018	Sweden	Reading contest Writing a new chapter Building a Galilean telescope Look at the stars outside. Use the	Maximum: 10+2





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		star map. Adopt a star.	
19-25/11 2018	Italy	<p>Presentations of national scientists related with Astronomy</p> <p>Sharing and processing data. Writing a scientific essay</p> <p>Pictures exhibition</p> <p>Spanish team shows how to built a sundial and a gnomon</p>	Maximum: 10+2
19-25/5 2019	Spain	<p>Workshops:</p> <p>Astronomy center in Fuenlabrada: building models to explain seasons, eclipses, etc.</p> <p>MDSCC-Robledo: Museum and Rocket workshop</p> <p>Music and play "Out of the Dark"</p>	Maximum: 10+2

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	<p style="text-align: center; font-size: small;">Centro de especialización deportiva</p>	<p>Dissemination of the whole project at the Science Fair</p>	
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Five days of work. Two days for travelling.

All the trips will include cultural and playful activities that allow students to interact in a relaxed atmosphere.

We will try to accommodate students in families in order to save money and give more opportunities to travel.

2. Visiting the MDSCC – NASA in Robledo de Chavela.

We visit the MDSCC, where the Director, Mr. Ángel Martín explains us the history of the complex, the important role it played in the space race and the missions in which it currently takes part while we have the opportunity to know the facilities, their operation and some of the people who collaborate in this interesting work.

3. Lunch

4. Team work.

We retake the team work to concretize the development of the different activities, sharing the experience that each country can contribute in it.

Budget

Local transfer, accommodation, meals and flying, transfer to and from airport = local budget

Cultural visits, excursions, experts are paid by the hosting country's budget.

When a country makes a schedule, the costs for local budgets must





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be taken
advance.

in concern, and be communicated in

Logo contest

Each country produces logotypes. Local contests decide which two logos represent the country.

Upload two logos from each country 4/12. The logo must contain the Erasmus-logo, the name "Out of the dark" and it must be made by hand.

Each country gives points to the logos: 4 points to the winner, 3p to the second, 2p for the third and 1 p for the last. You are not allowed to vote on logos from your own country.

The result from all countries are being sent to Erika Stralberg (Sweden) and also published on the website.

Sundial and gnomon

Spain will provide a podcast of how to make a sundial and a gnomon (previously they will have learn how to do it in the Astronomy Center). They will share the podcast with the rest of the teachers through the platform. We will all listen to the podcast before we go to Italy. When we come to Italy, the Spanish students will be teachers in small mixed groups of students, and the groups will build the sundial and gnomes.

In the program in Italy there must be time provided for this activity. The time and place, in the schedule must be decided together with Spain.

Sweden - mobility

Little Prince. Reading Contest

We need to read the book "The Little Prince" before we meet in Sweden. Italy has had reading contests before, so they will send information about that to the other countries. In Sweden the groups will be mixed and work together in the contest.

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Writing contest

Same international groups will write the last chapter for the group. We need to think of a price. Prepare time for teacher for assessing the novels.

Galilean-telescope and star map

All students make a star-map and a telescope at home. The students bring the map and the lenses to the meeting in Sweden. The star map is preferred to be done in april, and contains the polar star and constellations around it. In mixed groups the students will put together the telescope and compare their star maps.

Students will have to learn relevant vocabulary to be able to speak about stars and Astronomy in English. The words we find necessary we will share at the platform.

Participants

Maximum number of students: 10 from each country.

Prices

Maria José Morales can make pins at school with the winner logo. The hosting country also think about prices for the competitions.

Italy - mobility

Presentation of national scientists

Each country prepares a presentation, Power Point, about a relevant scientist, to be presented in Italy.

Prominence – solar explosions

Every country does one solar observation to get a picture for counting the height of prominence. The picture is brought for exhibition in Italy. In the exhibition about the sun we try to find pictures on the sun from 1995 until today, so we can show cycle of the sun. Participant countries will see if the weather during this





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period has the same cycle as the sun. The European Space Agency can provide these pictures.

Measuring the heights of the mountains of the moon

Observation of the moon and its mountains at the first or the second day after the first quarter. We make the photos at least twice (two different months), to try to get better results, and count the heights of the mountains from both photos. We bring the pictures to Italy, along with the calculations. In Italy students present their measuring, calculation and result in mixed groups. They also compare their results with table measurement, and discuss the problems and errors.

Writing a Scientific essay.

We divide the students into mixed groups, two students from each country. Half of the groups will write an essay about measuring the solar explosion, and half of the groups will write another about the moon.

Spain – mobility

We will be in contact throughout the whole project and we will reserve a time for the team work in the mobilities to Sweden and Italy in order to evaluate the progress and make the relevant adjustments in order to cover all the objectives and activities.

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AGENDA OF THE MEETING:

1. Team work.
2. Visiting the Astronomy Center in Fuenlabrada.
3. Lunch
4. Team work.
5. Visiting the European Space Agency, in Villafranca del Castillo.

1. Team work.

We define some documents that we have to share and unify: model certificate, model minutes, activity assistance sheets. Spain presents a proposal that is accepted by all and commits to send it for common use.

2. Visiting the Astronomy Center in Fuenlabrada.

We visited this important educational resource for four hours and we had the opportunity to experience as if we were students in the planetarium, simulator, workshops and observatory.

Teachers who work there told us how to develop similar workshops in our schools, building and using a sundial or different models to explain seasons, apparent motions of the sun, etc.

We were able to observe the sun through a solar telescope and make a photo of the solar protuberances.





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Later, Mr. Juan Ángel Vaquerizo, from the Astrobiology Center, presented the Partner project, which allows students to know what radioastronomy is and interact with NASA science programs.

It was a very interesting visit from the point of view of the teaching applications.

3. Lunch

4. Team work.

We have only a short time before visiting the ESA, and we define one of the most controversial aspects.

Mobility Criteria

1. Knowledge of English (communicative skills), 1-7 points
2. Collaboration, ability to work in teams. 1-6 points
3. Participation in extra curricula activities, 1-5 points
4. Relevant contributions to the project activities and result, 1-4 points
5. Use of the scientific knowledge through the project, 1-3 points
6. Digital skills, 1-2 points
7. Possibility to host students from other countries, 0-1 points

5. Visiting the European Space Agency, in Villafranca del Castillo.

Our last visit to centers specialized in Astronomy went to ESA. Mr. Michel Breitfellner guided us through the facilities by showing us different control rooms and satellite models sent by the ESA to investigate diverse aspects of the space.

He also introduced the Cesar program that allows collaboration between ESA and schools, through an interesting educational strategy called scientific cases, graduated according to its difficulty. Materials are in English and can be used freely.





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They are planning now to make available to all the community a telescope to observe the moon live, as they already do with the sun. That would greatly facilitate our activity of measuring the lunar mountains.

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TRANSNATIONAL MEETING.

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BILLBERG, ANN
JENNY

From Spain:
MORALES, MARIA J.

AGENDA OF THE MEETING:

1. Visiting Toledo.

We visited this important city given that one of the most important aspects of this kind of associations is to understand why each country is how it is, how its history marks its character.

Toledo is known as the City of Three Cultures. A guide showed us the most important monuments in a leading us through the history of Toledo and Spain so as to make us aware of the importance of a good coexistence among different people for social, cultural and scientific progress.

Mosques, synagogues, churches, neighborhoods where different cultures mix in a few meters and learn to live together. This is important too for the project. So, during the day we take the opportunity to get to know each other better, talking about the customs of the different partner countries.



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JENNY

From Spain:
MORALES, MARIA J.
MORALES, ANA M.
GALLEGO, VICTOR
CONTRERAS, J. RUBÉN

AGENDA OF THE MEETING:

1. Team work
2. Farewell lunch

1. Team work

We revise and approve the agreements defined throughout these days.

Aspects to be treated:

- Impact and dissemination
- new schedule
- new budget
- two Spanish teachers present a sketch for the project website
- signing of the documents by the assistant teachers
- delivery of the certificates of attendance

Evaluation

Aspects for the evaluation, scores 1-4 (1 = worst, 4=best). Italy will prepare an online survey to be completed by the teachers attending this transnational meeting, which will take into account the following points:





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- Suitability of dates
- Organization, official agenda
- Team work
- Difficulties in taking decisions
- Difficulties in communicate in English
- We have improved our English knowledge
- We have improved our scientific knowledge
- We have improved our knowledge about other cultures and countries.
- Activities, agreements
- Visits, institutions
- Communication between the coordinator and other teachers
- Did we follow the program?
- Could we have planned this project in less time?

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