About the Galileo Mobile
Galileo Mobile is an itinerant educational project, with both a scientific and cultural aspect, that helped to bring the International Year of Astronomy to Chile, Bolivia and Peru.

For almost two months, we travelled in two vans, equipped with telescopes and educational material, visiting many schools across the Altiplano.

Our aim was to exchange different visions of the Cosmos and create a feeling of unity under the same sky.
The Team

MPA:
- Silvia Bonoli
- Víctor Silva
- Federico Stasyszyn

ESO:
- Nuno Gomes

USM/MPE:
- Jorge Rivero
- Patrícia Spinelli
- Eva Ntormousi

MPS:
- María Dasí
- Philippe Kobel

NORDITA:
- Fabio del Sordo
&
- Miriam Campos
- Pilar Becerra
Dear PhD-representatives and IMPRS-mates,

Feel free to redirect this call to whoever is interested in such a project (see description below).

For all those who are interested in astronomy, education and travel, here is an opportunity for you...

Next year has been declared the International Year of Astronomy 2009 (www.astronomy2009.org), and in this context, I had the idea of a special project: "An educational Journey on the theme of Astronomy, through South America, with media documentation" => see attached document.

The idea is really to share astronomy view and cultures, give glimpses of curiosity and wonder, while documenting the trip to compile a TV documentary, in order to share the experience with people of the world.

This project needs motivated collaborators to get concretized....So if you speak some spanish, are interested in astronomy education, and are willing to invest time in 2009 (especially 2-3 months for travel), please... RING THE BEEELLLL and reply to this email !

I hope to hear from some of you.

Best wishes,

Philippe Kobel
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- Fund Raising
- Road Map
- Activities
- Administrative
- Logistics
- Trip
- Documentary
- PR

- Local contacts
- Final definition
- Planification
- Collect material
- Insurances/authorizations
- Trip preparation
- Survey/contacts
- Briefing/content
- Filming
- Project log - local media
- Evaluation report

Garching bei München, 22-23 November 2008
Organization

5 working groups

- Fund Raising and Logistics
- Communicating using pbworks, email and Skype
- Popularization
- Road Map
- Documentary
- Activities

- One meeting every two months
- Skype teleconferences on Sunday evenings
Sponsors

Max Planck Institute for Solar System Research

Fund Raising
Budget ~ € 60 000,00

Max-Planck-Institut für Astrophysik
Total Predicted
~ 30 schools
~ 5 000 km

Contacted IYA nodes, teachers and amateur astronomers

Source: ESO
Activities

Main Resources
GTTP
UNAWE
Galileoscope

Contents
• Basic Astronomy: Day and Night, Seasons of the year;
• Basic Physics: Light, Spectra, Gravity, Optics;
• Solar System;
• Stars;
• Galaxies;
• Telescopes, Galileo Galilei.

Methodology
• Experiments;
• Observations;
• Multimedia;
• Games and creative activities.
Interesting to note

La luz multicolor

¿Sabes cómo se forma el arco iris? Es por el efecto de la descomposición de la luz. Con este experimento comprobaremos que un rayo de luz está compuesto de muchos colores. ¡Podemos descubrirlos a través del efecto de la refracción de la luz!

Fig. 1

Actividad

- Llena un recipiente con agua e introduce un espejo en el mismo de forma que se mantenga inclinado respecto a la base (Fig. 1).
- Proyecta la luz que se refleja en una pantalla o superficie plana de color blanco (Fig. 2). ¿Qué ves?

Fig. 2

¡Cuando llueve y hace sol, las gotas de lluvia actúan como prismas esféricos y nos muestran en el cielo el arco iris. Debido a la forma esférica de las gotas, para que se produzca el arco iris el Sol debe estar a tu espalda y las gotas delante de ti.

References, Credits, Classifications

Handbook: “Cartilla GalileoMobile”

Activity description

Interesting to note

References, Credits, Classifications
Documentary

Argentinian company specialized in documentaries

http://laventanacba.com.ar/
The International Year of Astronomy gives us all a goal and a challenge, for this year and we hope for years to come: to turn our eyes to the sky and ask once more the most ancient and fascinating questions on our existence. Where do we come from? What is our place in the Universe? There are so many stories to tell, and we have decided to share ours with communities that have always lived closer to the sky than anyone.

For this purpose we have created the GalileoMobile, that will carry us together with telescopes and astronomy outreach material through the Altiplano area in South America. Where the Inca empire once flourished, where astronomy once was part of everyday life, there we wish to bring it again, now more grown-up and mature. At the same time, we want to listen to what people think of the stars in a place that has been gifted with a diamond clear sky, to live in their way for a while and learn from their legends and traditions.

As scientists we know the joy knowledge can bring. As educators we know that a seed of curiosity will grow and flourish among young people. For this we will provide the places we visit with local and global contacts, some educational material, as well as long-term support, so that educators can continue teaching astronomy after we leave.

Our testimony will be a documentary, a movie that will show sharing beyond borders, and we hope will propose a way to unite us with one sole thing we all have in common. Our limit, our source of inspiration and our guide: the sky.

GalileoMobile Trailer

http://www.galileo-mobile.org
Popularization

Blog  http://galileomobile.wordpress.com/

We are also on:
Facebook
Twitter
Picasa
Youtube
The Trip

Follow us on our blog!
galileomobile.wordpress.com
Road map

1. Chile
   - Antofagasta
   - Calama
   - San Pedro de Atacama
   - Iquique
   - Colchane
   - Cariquima

2. Bolivia
   - La Paz
   - Tiwanaku
   - Huatajata
   - La Isla del Sol
   - Copacabana

3. Peru
   - Isla de los Uros
   - Crucero
   - Puno
   - Marangani'
   - Sikuani
   - Cusco
   - Patacancha
   - Arequipa

4. Chile
   - Tocopilla
   - Taltal
A typical day of activities

1. Opening Talk
2. Activities

A typical day of activities
A typical day of activities

3. Observations
Interchange of cultures

Porta del Sol – Tiwanaku, Bolivia

Ponce Monolith
Tiwanaku, Bolivia

Horca del Inca – Copacabana, Bolivia

Tiwanaku, Bolivia
Interchange of cultures

Calama, Chile

Kallawaya Man
Huatajata, Bolivia

Kallawaya Ceremony
La Isla del Sol,
Bolivia

Sicuani, Peru

Wara Wara Q’Urawa
(Honda of Stars)

www.astronomiaandina.260mb.com
Problems and Solutions

- Audience different than expected

- Problems on the road
  - Fuel
  - Money
  - Food
  - Bad roads

- Misunderstandings with local contacts

- Discussions within the team
Some Numbers

- **Countries**: 3
- **Distance**: ~ 7 000 km
- **Places**: 25
- **Schools**: 25+
- **Students**: ~ 2800 (between 6 and 17)
- **Teachers**: ~ 100
- **Average initial talk**: 1 h
- **Average activities**: 2,5 h
- **Average night observations**: 2 h
- **Telescopes distributed**: 25
- **Posters, banners, postcards**: a lot!
Thank you!