Sponsoring File

Academic Voyage

Third year of Physics

PhysicsTravel
c/o Association
Les Irrotationnels
EPFL Bâtiment PH Station 3
1015 Lausanne

PhysicsTravel

École Polytechnique Fédérale de Lausanne

Bangalore
1 Organisation

PhysicsTravel is a commission of "Les Irrotationnels", the association for Physics’ students at EPFL. This commission is charged with the organisation of the traditional academic voyage for third year students at the end of the Bachelor’s degree. For its new 2016 edition, the committee is comprised of the following students:

President Naomí Naested
Vice-president Yves Robert-Tissot
Treasurer Simon Eggenschwiler
Logistics Mathieu De Bony De Lavergne
Sponsoring Quentin Talon
Secretary Tobias Meier
Webmaster Emily Bourne

Dr. Frederic Courbin, lecturer and researcher in the astrophysics laboratories at EPFL (lastro.epfl.ch), will accompany the students in their voyage.

2 The Project

The aim of this academic trip is to discover a new country and its culture, but above all to do this from a scientific angle. That is to say to learn more about developing technologies and the scientific advancement of the country.

With this aim in mind, the destination chosen by the 2015-2016 contingent is India, a developing country as much economically as scientifically. More specifically Bangalore has been chosen, due to its reputation as the "Silicon Valley" of India. This is a city living between two worlds, that of tradition and that of technology.

The presence of sponsors is essential for us to be able to carry out this project, given that we wish to propose a voyage outside of Europe at a reasonable price, open to all third year students regardless of their financial situation.

2.1 Aims of the voyage

As the voyage is supported by EPFL, visits linked to our academic field of study will take precedent during the first week. Our course is rich in scientific knowledge from many domains, ranging from programming to our focus, physics, passing by biology, chemistry and engineering domains. However students do not necessarily know what to do with the knowledge they have acquired by the end of their studies. This is why these academic trips exist, they allow future physicists or engineers to broden their horizons. This can give them an idea of the career possibilities that the future holds.
One of the aims of this trip is to strengthen, or even establish EPFL contacts with Bangalore University’s laboratories and the Indian Institute of Science, IISc. Every student has the possibility to conduct part or all of their Master’s degree abroad, in order to broaden their horizons and have new auspicious experiences. The same can be said of the doctorate. After the voyage, the students will therefore know in which domains India is specialised, and what infrastructures, environment and culture await them.

This voyage will also allow the students to assimilate and better understand Indian culture. This country is in the process of developing and has very great potential. Knowledge of the culture of a country is a non-negligible advantage for any future collaboration in which students may participate, be it in their studies or professional career. Relationships based on trust can therefore be more easily constructed. This last aspect will be the central point of the second week which will be a dive into the history and culture of India. This will allow the discovery of the customs and traditions of the country and its population.

A plan of the voyage’s organisation can be found in the appendix (part 5).

2.2 Note from Dr F. Courbin:

India is clearly a first class destination for students. The country combines a large cultural diversity with an exceptional development as much in industry and economics as in scientific and pedagogical domains. The region of Bangalore specifically contains a large part of the IT industry, with a spectacular development over the last decade. The same can be said of the space industry. India has its own space agency, its own launchers and also contributes to fundamental research, including in domains such as astrophysics. EPFL strongly supports its researchers in their efforts to initiate or strengthen collaborations with India, in particular through student exchanges and theses under joint supervision from EPFL and Indian universities. I myself was able to benefit from such help as part of a project conducted in collaboration with the Indian Institute of Astrophysics (http://www.iiap.res.in) in Bangalore, where I personally have colleagues. These people could help with the astrophysics part of the voyage, in particular the visit to observatories and/or their control centres.

3 Advertising

The following methods will be used to promote our sponsors:

**Advertising brochure** to be distributed at the wine sale, containing the description of the voyage and its sponsors

**T-Shirt** of the voyage given to the students, on which the logos of the sponsors will be found

**Conference** Possibility of presenting the company at EPFL

**Events** Advertising during the many events organised (banners, posters, flyers,...)

**Website** Advertising on the website

The most generous sponsors will have a more visible position on the t-shirt as well as on the posters for events. A more or less detailed description of the business will be included in the brochure, and only our best sponsor will be shown on the first page of the brochure as well as on the homepage of our website. A door to door wine sale will be carried out by the students, during which a brochure will be given to each client at the delivery of the wine. Every e-mail linked to the voyage will contain the logos of our main sponsors in the signature. After we return, each sponsor will receive an account of the voyage, resuming the important moments and presenting the official visits.
4 Budget

4.1 Expenditure Estimate

We have made an estimate of the budget according to varied guides, advice and price comparators:

<table>
<thead>
<tr>
<th></th>
<th>Price / person</th>
<th>Sum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tourist visa</td>
<td>100.-</td>
<td>100.-</td>
</tr>
<tr>
<td>Plane trip Geneva-Delhi-Geneva</td>
<td>1000.-</td>
<td>1100.-</td>
</tr>
<tr>
<td>Plane trip Delhi-Banghalore-Delhi</td>
<td>130.-</td>
<td>1230.-</td>
</tr>
<tr>
<td>Plane trip Delhi-Leh-Delhi</td>
<td>120.-</td>
<td>1350.-</td>
</tr>
<tr>
<td>Bus trip Leh-Observatory-Leh</td>
<td>100.-</td>
<td>1450.-</td>
</tr>
<tr>
<td>Accomodation (12 nights)</td>
<td>12 · 25 = 300.-</td>
<td>1750.-</td>
</tr>
<tr>
<td>T-Shirts for the trip</td>
<td>20.-</td>
<td>1770.-</td>
</tr>
<tr>
<td>10% margin in case of unforeseen costs</td>
<td>170.-</td>
<td>1940.-</td>
</tr>
</tbody>
</table>

We thus have an estimate of CHF 1940.- per person. The meals and drinks are not included in this amount as they will be paid for individually. Our voyage will involve more than 50 people. This gives us a total of $50 \cdot 1940 = 97'000$ CHF.

4.2 Expected Revenue

To satisfy these financial needs, a certain number of events and sales will be organised throughout the year. Contributions from EPFL and from our sponsors will then be added to the revenue thus obtained. The revenue estimates are as follows:

- Wine sale : 25'000.-
- Food stands and other events throughout the year : 1500.-
- Halloween party : 500.-
- Help from EPFL and the Physics Department : 10'000.-
- Stand at Balélec 2016 : 1'000.-
- Sponsors : 50'000.-

This gives us a total revenue of CHF 88'000.-. This amount much depends upon revenue from sponsors, they are essential to us. CHF 9'000.- remains outside of this list, to be found via students or other revenue sources, to which must be added any unforeseen costs due to a potential lack of sponsors.

As a result all help is welcome. For the sponsors who wish to make a payment immediately, the association’s account is available:

- Account holder : "Les Irrotationnels", EPFL Bâtiment PH Station 3, 1015 Lausanne
- IBAN: CH44 0483 5132 8130 4100 0
- Account number : 1328130-41
- Motif: Voyage PhysicsTravel 16
5 Annex

The travel plan is still in the draft stage, given that it depends largely upon the exact number of participants and upon the responses obtained from sponsors and from the IISc. The order of the visits in the first week of the voyage could change and their exact nature remains to be confirmed depending upon the IISc’s laboratories and the University.

**Departure** Journey to Bangalore - Swissnex Welcome

- Visit Bangalore and a business/laboratory (IISc)
- Visit Planetarium, Government Museum, Heritage Centre & Aerospace Museum (HAL)
- Visit a business/laboratory (IISc)
- Visit Bangalore et its university
- Sultan Palace and botanic garden

**Checkpoint** Return to Geneva for those who wish it (end of the voyage) or journey to Leh (Himalaya) via Delhi with a visit of the city

- Acclimatisation to the altitude (3500m)
- Visit Leh : Monasteries Tiksey, Shey and Hémis
- Journey to Hanle and visit of telescope
- Visit the highest observatory in the world
- Visit the Sanctuary
- Return to Leh et visits : Shanti Stupa and Palace

**Return** Return to Delhi and flight New Delhi - Geneva