



PROGRAM OF SCIENTIFIC INITIATION WITH EMPHASIS IN
MATHEMATICS FOR YOUNG TALENTS

AUGUST, 2015

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Thanks to the support of our donors from GlobalGiving to the Project of “Scientific Initiation for 120 students in Paraguay”, who contributed with a part of the funds needed for our activities. This program aims to increase the young talents who are, definitely, the most valuable resource of our country.

The long-term impact intended with the program is the continuous training of Paraguayan professionals in science and technology, which will be the engine for the social and economic development of Paraguay.

We are glad to inform that after the last report (May, 2015), five more centers (**Caaguazú, Alto Paraná, Itapúa, Paraguarí** and **Guairá**) were established along the country thanks to the support of our donors and Itaipú Binacional. We finally managed to open all centers during last June (the other ones already open were **Asunción, Itapúa, Misiones** and **Ñeembucú**). Please notice in the map (Figure 1), highlighted in green, the locations where the courses are available. The good news is that **196 students** are participating in the Young Talent’s Courses.

The modules and their topics in these courses are:

1) Beginner Level

Modules:

- Algebra I
- Geometry I
- Introduction to Number Theory

2) Intermediate Level

Modules:

- Algebra II
- Geometry II
- Number Theory II
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3) Upper Intermediate Level

Modules:

- Number Theory III
- Inequalities
- Functions
- Concurrency and Collinearity

4) Advanced Level

Modules:

- Specific topics on advanced Geometry
- Combinatorics
- Geometry III
- Number Theory IV

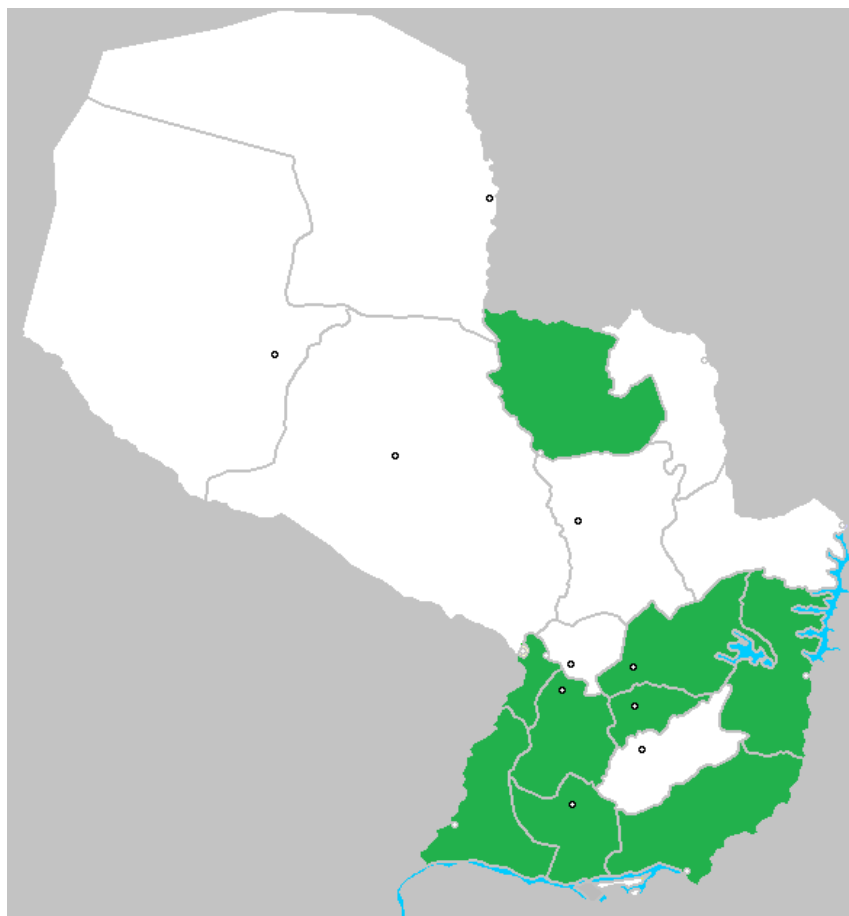


Figure 1. Map of Paraguay. The locations where the courses are available are highlighted in green. Annual courses are being taken by 196 students in Asunción, Paraguairí, Ñeembucú, Misiones, Itapúa, Guairá, Caaguazú, Concepción and Alto Paraná.



Figure 2. Courses held on Misiones last June.

These courses are especially designed to increase the talent for problem solving by young students with mathematical skills, and thus enable them to achieve a higher level than the one they could reach through the educational system in our country.

In addition, the courses' contents are a support for the training of our students who compete in Mathematical Olympiads. During this year, the results obtained for our national teams formed by Young Talents were amazing. In the Cono Sur Mathematical Olympiad, two students got Bronze Medals, and in the most important math competition in the world, the International Mathematical Olympiad, three of our students got also Bronze Medal. Then, another benefit of these activities is the improvement of our results in international competitions.

For more information please take a look at:

http://www.omapa.org/index.php?option=com_content&task=view&id=330&Itemid=1



Figure 3. Paraguayan participants in the Cono Sur Mathematical Olympiad.



Figure 4. Paraguayan participants in the International Mathematical Olympiad. From left to right: Antonio Riera, Marcos Zárate, Elvis Agüero, Daniel Filizzola, Gerardo Fisch, Gerardo Piris.

Please note that the funds needed to implement the Young Talents' Project are provided together by: OMAPA, donors from GlobalGiving and ITAIPU Binacional. For these reason, the donations are extremely useful for achieve our goals. We hope to keep receiving the support of our donors, to whom we thank for their help.

We encourage our donors to follow our activities through the organization web page:

<http://www.omapa.org.py/>

as well as the social networks:

Twitter : @OMAPApY

Facebook: <https://es-la.facebook.com/omapa.org.py>