



# IEEE TEACHER IN SERVICE PROGRAM

**ARGENTINA SECTION**

June, 2012



# IEEE



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## WHAT IS TISP?

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TISP is an acronym for *Teacher In-Service Program*, a program developed by the IEEE Educational Activities Board (IEEE EAB) to promote learning science, mathematics and other technological disciplines at pre-university education, using as support the basic concepts of Engineering.

The program includes the development of their activities, the presentation of technology's oriented topics by IEEE volunteers to pre-university teachers, as part of a service or professional development.

The TISP allows IEEE volunteers to share their techniques experiences and demonstrate the application of engineering concepts to help practice of teaching and learning science, mathematics and disciplines technology.

This program focuses on the articulation of teaching strategies and learning science and technology among middle school and upper level to ensure that engineers and educators can work together to develop a joint long-term collaboration.

The first pilot TISP workshop was launched by Florida Section - West Coast (USA), in 2001. Due to the success of this first pilot, TISP launched in other U.S. cities, achieving a high participation of teachers and students from various schools and colleges pre-universities. Since then the program has grown continuously.

Currently the program includes a range of activities or "Lessons Plans" available at several languages that can be used by educators and engineers. These plans are based on the activities through the TISP presentations around the world. Currently the IEEE EAB are searching that all IEEE Regions have Sections involved on this program.



## LESSONS PLANS

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IEEE EAB has developed a series of lessons plans of educational content for use by teachers in their classrooms. Each activity follows standards education adopted by most countries and includes three parts: abstracts for the teacher, worksheets for students and activities to develop, including those relating to assessment.

All these activities are free and can be viewed or downloaded, on .pdf format from the page:

<http://www.ieee.org/web/education/preuniversity/tispt/lessons.html>

These same activities and additional information can also be found at the website of TryEngineering:

<http://www.tryengineering.org/home.php>

This page is a new website created by IEEE, IBM and TryScience that combine information on engineering careers with interactive activities and teaching for students.

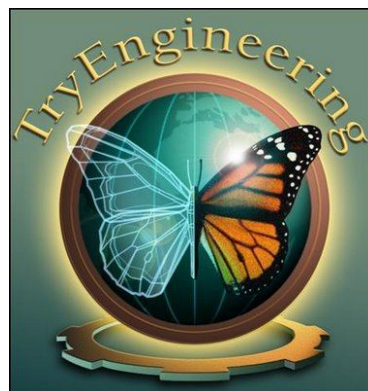
*"TryEngineering.org is a resource for students, their parents, their teachers and their school counselors"*

*.....www.tryengineering.org.....*

This is a portal designed for engineering students aged between 8 and 18 who are invited to explore how to prepare for engineering careers.

Furthermore you can find engineering experts with whom they can relate through questions and interactive games, and more.

Hopefully this will help young people understand better what the engineering it is, and how these careers can be part of their future.



[www.tryengineering.org](http://www.tryengineering.org)



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## TISP GOALS

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- Empower Section “champions” to develop collaborations with their local pre-university education community to promote applied inquiry-based learning.
  - Enhance the level of technological literacy of pre-university educators.
  - Encourage pre-university students to pursue technical careers, including engineering.
  - Increase the general level of technological literacy of pre-university students for many years.
- Increase the level of understanding of the needs of educators among the engineering community.
- Identify ways that engineers can assist schools and school systems.

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## TISP - ARGENTINA SECTION

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This report details the activities carried out at Section Argentina as part of the TISP program developed by the EAB.

Argentina Section, through Córdoba Subsection, had a strong participation in workshop held in Rio de Janeiro, in 2007, forming since then part of the pilot launched in Latin America. With the program officially start it, Section Argentina and particularly Cordoba Subsection, continuing working on the program.

Being part of this program commits the members of our Section to participate actively in the program by conducting various activities and responsibilities, among which are primarily training workshops to be held in the various Universities or pre-university colleges directly related to the program.

To meet these objectives is that at the last Student Branch Regional Meeting held in Guayaquil, Ecuador, we planned an Action Plan that will be taken forward during 2010, with objectives already defined.





## TISP ACTIVITIES DEVELOPMENT ARGENTINA SECTION

### Activity 1

#### *Teacher In-Service Program*

**Place:** UNC - Córdoba, Argentina.

**Date:** October 22<sup>nd</sup>, 2007.

**Attendees:** 22 Teachers.

**Activity developed:** Rotational Equilibrium.



**TISP**  
**Teacher In-Service Program**  
Programa para el Profesor en Actividad

**Seminario Taller** "TÉCNICAS PARA LA ENSEÑANZA DE CONTENIDOS TECNOLÓGICOS EN LA ENSEÑANZA MEDIA"

Un programa desarrollado por IEEE (Institute of Electrical and Electronic Engineers) para colaborar con la enseñanza de las asignaturas vinculadas a las tecnologías en el nivel secundario, mediante técnicas activas.

A través del TISP, el IEEE pone a disposición de las comunidades educativas locales de nivel medio, a miembros voluntarios, capacitados en el empleo de técnicas de enseñanza que presentan los contenidos de asignaturas relacionadas con la tecnología (matemática, física, química, ciencias), de un modo ameno y movilizador.

El TISP está siendo implementado en diferentes países del mundo, motivando a los jóvenes a inclinarse por carreras tecnológicas, revirtiendo la tendencia mundial que convierte a éstas en áreas de gran vacancia y de altísima demanda.

**DIRIGIDO A PROFESORES EN ACTIVIDAD DE FÍSICA, MATEMÁTICA, QUÍMICA, CIENCIAS Y TECNOLOGÍA.**

**Lugar:** Pañol de Electrónica  
Facultad de Ciencias Exactas, Físicas y Naturales  
Universidad Nacional de Córdoba  
Avenida Vélez Sarsfield 1611

**Fecha:** 22 de Octubre del 2007

**Horario:** 18:00 hs. a 22:00 hs.

**Para mayor información e inscripciones:**  
La inscripción es sin costo y se entregarán certificados.

**IEEE**  
Sección Argentina

**Facultad de Ciencias Exactas Físicas y Naturales**

>> Ing. Pablo Recabarren, eMail : pgarcahah@ieee.org  
>> Ing. Miguel Solinas, eMail : m.solinas@ieee.org

**CUPOS LIMITADOS**

Fig. - Promotional poster used at the first Workshop TISP held in Argentina.



Fig. – Teachers working in activity and their work carried out and completed.



## Activity 2

### Teacher In-Service Program

**Place:** UNC - Córdoba, Argentina.

**Date:** June 9<sup>th</sup>, 2008.

**Attendees:** 25 Teachers.

**Activity developed:** Rotational Equilibrium.

NoticIEEEro, August 2008, year 19, Edition No. 58, pag. 10

[http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro\\_58.pdf](http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro_58.pdf)

<p><b>Qué es el IEEE</b></p> <p>El Instituto de Ingenieros en Electricidad y Electrónica, más conocido como IEEE por su sigla en inglés <i>The Institute of Electrical and Electronics Engineers</i>, es la asociación técnica y profesional sin fines de lucro más grande y prestigiosa del mundo.</p> <p>Bajo su lema "Vinculando al Mundo" -<i>Networking the World</i>- el Instituto contribuye al desarrollo profesional de sus miembros y promueve la creación, desarrollo, integración, distribución y aplicación del conocimiento sobre tecnologías de información, ingeniería eléctrica, electrónica y ramas afines.</p> <p>Actualmente, el IEEE cuenta con unos 380.000 miembros distribuidos en aproximadamente 150 países y organizados geográficamente en diez Regiones. De este conjunto alrededor de 70.000 miembros son estudiantes.</p> <p> <b>SUBSECCIÓN CÓRDOBA IEEE</b> The Institute of Electrical and Electronics Engineers, Inc.</p>	<p>  <b>Teacher In-Service Program</b></p> <p></p>
<p> <b>Presidente:</b> Ricardo Taborda mail: <a href="mailto:rtaborda@ieee.org">rtaborda@ieee.org</a></p> <p> <b>Vice - Presidente:</b> Miguel Solinas mail: <a href="mailto:msolinas@ieee.org">msolinas@ieee.org</a></p> <p> <b>Secretario:</b> Pablo Recabarren mail: <a href="mailto:pagrecabah@ieee.org">pagrecabah@ieee.org</a></p> <p> <b>Tesorero:</b> Orlando Micolini mail: <a href="mailto:omicolini@ieee.org">omicolini@ieee.org</a></p>	<p><b>Seminario - Taller</b>  <b>DESARROLLO DE CONTENIDOS</b>  <b>TECNOLÓGICOS EN LA</b>  <b>ENSEÑANZA MEDIA</b></p> <p>Organizan:</p> <p> <b>SUBSECCIÓN CÓRDOBA</b> <a href="http://cordoba.ieee.org.ar">cordoba.ieee.org.ar</a></p> <p> <a href="http://www.efn.uncor.edu">www.efn.uncor.edu</a></p>

<p><b>INVITACION</b></p> <p><b>PARA</b></p> <p><b>PROFESORES DE MATEMÁTICA, FÍSICA, TECNOLOGÍA, QUÍMICA, CIENCIAS, COMPUTACION</b></p> <p>El IEEE invita a <b>Profesores de Enseñanza Media</b> de asignaturas relacionadas con la tecnología (<b>Matemática, Física, Computación, Química, Tecnología, etc</b>), a participar del 2do. Encuentro TISP de Córdoba.</p> <p>La inscripción es <b>gratuita</b> y se otorgarán <b>certificados de asistencia</b>. <b>Cupos limitados.</b></p> <p>El próximo <b>9 de Junio</b> se desarrollará el segundo <b>Workshop</b> TISP con educadores <b>pre-universitarios</b>: "<b>DESARROLLO DE CONTENIDOS TECNOLÓGICOS EN LA ENSEÑANZA MEDIA</b>", nuevamente organizado por la <b>Subsección Córdoba</b> del IEEE y la <b>Facultad de Ciencias Exactas, Físicas y Naturales de la UNC.</b></p> <p>La jornada se realizará en el <b>Laboratorio de Electrónica de la Facultad de Ciencias Exactas, Físicas y Naturales</b>, comenzando a las <b>18 hs.</b> Y finalizando a las <b>22hs.</b></p>	<p>El Programa para el Profesor en Actividad (<i>Teacher In-Service Program, TISP</i>), implementado por el <i>Institute of Electrical and Electronics Engineers</i>, tiene por objetivo estimular el interés de los jóvenes <b>pre</b> universitarios, por los estudios orientados a las tecnologías, como lo son las carreras de ingeniería, mediante la difusión de técnicas de enseñanza activas, amenas y altamente motivadoras.</p> <p>El Programa consiste en colaborar con los educadores de enseñanza media, orientándolos acerca del uso de metodologías y poniendo a su disposición herramientas de planificación de lecciones, a través de Internet.</p> <p>Para Inscribirse o para solicitar más información, enviar mail a</p> <p><a href="mailto:pagrecabah@ieee.org">pagrecabah@ieee.org</a>  <a href="mailto:augustojh@ieee.org">augustojh@ieee.org</a>  <a href="mailto:msolinas@ieee.org">msolinas@ieee.org</a></p>
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Fig. – This brochure were delivered at some schools, along with a folder explaining about TISP program.



Fig. – Second Workshop TISP development at Argentina Section.



## Activity 3

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### *Teacher In-Service Program*

**Place:** Catamarca, Argentina.

**Date:** August 29<sup>th</sup>, 2008.

**Attendees:** 25 IEEE student members.

**Activity developed:** Critical Load.

Note: TISP developed at Student Branch National Meeting 2008.

NoticIEEEro, October 2008, year 19, Edition No. 59, pag. 13

[http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro\\_59.pdf](http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro_59.pdf)



## Activity 4

### Teacher In-Service Program

**Place:** Córdoba, Argentina.

**Date:** September 5<sup>th</sup> and 6<sup>th</sup>, 2008.

**Attendees:** 140 (between teachers and IEEE members).

**Activity developed:** Candy bag – Robot Arm.

Note: this TISP was organized by EAB.

NoticIEEEro, October 2008, year 19, Edition No. 59, pag. 12

[http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro\\_59.pdf](http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro_59.pdf)

The Institute Web Page

[http://www.theinstitute.ieee.org/portal/site/tionline/menuitem.130a3558587d56e8fb2275875bac26c8/index.jsp?&pName=institute\\_level1\\_article&TheCat=2202&article=tionline/legacy/inst2008/nov08/newsTISP.xml&](http://www.theinstitute.ieee.org/portal/site/tionline/menuitem.130a3558587d56e8fb2275875bac26c8/index.jsp?&pName=institute_level1_article&TheCat=2202&article=tionline/legacy/inst2008/nov08/newsTISP.xml&)

TISP Blog Web Page

<http://ieee-tisp.blogspot.com/>



Fig. – TISP Workshop organized by EAB at Córdoba, Argentina.





Fig. – Attendees at TISP Workshop organized by EAB at Córdoba, Argentina.





Fig. – Douglas, Yvonne, Mirelle and TISP Team R9, during the TISP workshop.

## Activity 5

### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** October 16<sup>th</sup>, 2008.

**Attendees:** 4 teachers and 70 students (between 10 and 11 years old).

**Activity developed:** Pipeline Challenge.

Note: developed in Mark Twain College.



Fig. – First TISP Workshop developed at Argentina in Primary School level.



## Activity 6

### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** December 3<sup>rd</sup>, 2008.

**Attendees:** 60 Teachers.

**Activity developed:** Robot Arm – Rotational Equilibrium.

NoticIEEEro, December 2008, year 19, Edition No. 60, pag. 14

[http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro\\_60.pdf](http://www.noticieero.org/wp-content/uploads/2008/NoticIEEEro_60.pdf)



Fig. – Fourth TISP Workshop conducted in Argentina with teachers.



Fig. –Attendees at fourth TISP Workshop held in Argentina with teachers.



## Activity 7

### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** April 16<sup>th</sup>, 2009.

**Attendees:** 2 teachers and 60 students (between 10 and 11 years old).

**Activity developed:** Critical Load.

Note: developed at Mark Twain College.



Fig. – Second visit to Mark Twain School, where the TISP was conducted.



## Activity 8

### *Teacher In-Service Program*

**Place:** Buenos Aires, Argentina.

**Date:** April 29<sup>th</sup>, 2009.

**Attendees:** 8 Teachers.

**Activity developed:** Critical load and Candy bag.



Fig. – First TISP Workshop conducted at Buenos Aires, Argentina.

## Activity 9

### *Teacher In-Service Program*

**Place:** Buenos Aires, Argentina.

**Date:** June 12<sup>nd</sup>, 2009.

**Attendees:** 2 teachers and 40 students.

**Activity developed:** Critical load.

Note: developed at "13 de Octubre" School.



Fig. – Some pictures of the second TISP Workshop conducted at Buenos Aires, Argentina.



## Activity 10

### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** August 12<sup>nd</sup>, 2009.

**Attendees:** 2 teachers and 60 students (between 10 and 11 years old).

**Activity developed:** Sail Boat.

Note: developed at Mark Twain College.



Fig. TISP Workshop held at Primary School Level conducted in August, 2009.

## Activity 11

### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** August 27<sup>th</sup>, 2009.

**Attendees:** 62 IEEE student members.

**Activity developed:** Rotational Equilibrium.

Note: TISP developed at Student Branch National Meeting 2009.

NoticIEEEro, October 2009, year 20, Edition No. 65, pag. 7

[http://www.noticieero.org/wp-content/uploads/2009/NoticIEEEro\\_65.pdf](http://www.noticieero.org/wp-content/uploads/2009/NoticIEEEro_65.pdf)







Fig. TISP Workshop developed at Student Branch National Meeting 2009 (Córdoba, Argentina).





Fig. Students attendees at Student Branches National Meeting 2009, who participated at TISP Workshop held during the meeting.

## Activity 12

### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** May 17<sup>th</sup>, 2010.

**Attendees:** 2 teachers and 60 students (between 11 and 12 years old).

**Activity developed:** Sort it out

Note: developed at Mark Twain College.



Fig. TISP Workshop held at Mark Twain School, development at primary school level.



## Activity 13

### *Teacher In-Service Program*

**Place:** Asunción, Paraguay.

**Date:** August 26<sup>th</sup>, 2010.

**Attendees:** 35 IEEE student members.

**Activity developed:** Rotational Equilibrium.

Note: TISP developed at Student Branch National Meeting 2010.



Fig. TISP Workshop developed at Student Branch National Meeting 2010 (Asunción, Paraguay).



Fig. Students attendees at Student Branches National Meeting 2010.



## Activity 14

### *Teacher In-Service Program*

**Place:** Catamarca, Argentina.

**Date:** September 24<sup>th</sup>, 2010.

**Attendees:** 50 teachers and 250 students.

**Activity developed:** Critical load.

Note: TISP developed at Belén, Catamarca.



Fig. TISP Workshop held at High School Level conducted in August, 2010 (Catamarca).





Fig. Some students working on TISP activities (up) and testing their systems (down).



Fig. Critical load lesson plan. Students testing their systems.



## Activity 15

### *Teacher In-Service Program*

**Place:** Catamarca, Argentina.

**Date:** October 20<sup>th</sup>, 2010.

**Attendees:** 20 teachers.

**Activity developed:** Critical load.

Note: TISP developed at "Jornadas de Matemáticas y Problemáticas de la Educación Contemporáneas", Santa María.



Fig. Some teachers working on TISP activities conducted at Santa María, Catamarca.





Fig. Critical load lesson plan. Teachers testing their systems.

## Activity 16

### *Teacher In-Service Program*

**Place:** Catamarca, Argentina.

**Date:** October 21<sup>st</sup>, 2010.

**Attendees:** 10 teachers and 10 students.

**Activity developed:** Critical load.

Note: TISP developed at "Colegio Polimodal N°12", Santa María.



Fig. Students and teachers attended to the second TISP held at Santa María, Catamarca.





Fig. Critical load lesson plan. Teachers and students testing their systems.



## Activity 17

### *Teacher In-Service Program*

**Place:** Santiago del Estero, Argentina.

**Date:** June 24<sup>th</sup>, 2011.

**Attendees:** 20 teachers and 160 students.

**Activity developed:** Critical load.



Fig. Students and teachers attended to the first TISP held at Santiago del Estero.

## Activity 18

### *Teacher In-Service Program*

**Place:** Rosario, Argentina.

**Date:** October 13<sup>rd</sup>, 2011.

**Attendees:** 80 IEEE student members.

**Activity developed:** Rubber Band Racers.

Note: TISP developed at Student Branch National Meeting 2011.



Fig. TISP Workshop developed at Student Branches National Meeting 2011 (Rosario, Argentina).



## Activity 19

### Teacher In-Service Program

**Place:** Catamarca, Argentina.

**Date:** October 13<sup>rd</sup>, 2011.

**Attendees:** 20 Teachers.

**Activity developed:** Critical load.



Fig. Teachers attended to TISP workshop held at Belén, Catamarca.



## Activity 20

### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** June 15<sup>th</sup>, 2012.

**Attendees:** 4 teachers and 60 students.

**Activity developed:** Rotational Equilibrium.

Note: developed at "Nicolás Copérnico" School.



Fig. Students working on Rotational Equilibrium lesson plan, during the TISP Workshop held at Nicolás Copérnico School (High School Level), Córdoba.



Fig. TISP Workshop held at Nicolás Copérnico School (High School Level), Córdoba.





Fig. Student working on lesson plan (up) and their systems developed (down).



## TISP ACTIVITIES DEVELOPMENT ARGENTINA SECTION – WITHOUT STATISTICS

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### Activity 21

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#### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** August, 2008.

**Attendees:** 3 teachers and 30 students.

**Activity developed:** Critical load.

Note: organized by UNCa Student Branch.

### Activity 22

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#### *Teacher In-Service Program*

**Place:** Catamarca, Argentina.

**Date:** August, 2009.

**Attendees:** 30 teachers and 20 students.

**Activity developed:** Critical load.

Note: organized by UNCa Student Branch.

### Activity 23

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#### *Teacher In-Service Program*

**Place:** Córdoba, Argentina.

**Date:** September 15<sup>th</sup>, 2009.

**Attendees:** 2 teachers and 60 students (between 11 and 12 years old).

**Activity developed:** Rotational Equilibrium.

Note: developed at Mark Twain College.

### Activity 24

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#### *Teacher In-Service Program*

**Place:** Buenos Aires, Argentina.

**Date:** November, 2010.

**Attendees:** 4 teachers and 60 students.

**Activity developed:** Critical load.

Note: TISP coordinated by Juan Gabardini (jgabardini@computer.org).





## GREETINGS LETTERS

### TISP Workshop – October 6, 2008 –Mark Twain School (bilingual College).

#### Soledad Prieto - Teacher

From: [soleprietoar@hotmail.com](mailto:soleprietoar@hotmail.com)

To: [augustojh@gmail.com](mailto:augustojh@gmail.com); [b.flood@ieee.org](mailto:b.flood@ieee.org)

Dear Bernardo and Augusto,  
I am writing you this letter for thanking you on coming.  
Your class was awesome before you came I didn't like so much ingeneering but now I love it!!  
I am the one that asked you everything 😊 hahaha.

You are awesome, you know everything about ingeneering.  
I'll love you to come again!  
I want to congratulate you for your profession.

Well thank you for coming

#### Students of 5to y 6to (10 to 11 years old)

----- 1 -----

Dear Bernardo and Augusto,  
I was absent the day you tauch my friends about engineering but they told me the class was great! I hope that you will visit us one more time so that I can be there to learn. I think your job is fantastic and wonderful.

Best Wishes,  
Tomás Pereyra 6'B

----- 2 -----

Dear Sole, Augusto and Bernardo,  
I didn't see you but i think that you were magnific!!!  
I'am so sad i dont see you but my friends explain me what you do...  
The pieplain is a excellent proyect. Thank you miss Sole because i like this proyect a LOT!!!!(tal vez) some day we can meet.

kisses mika bergesio

Javier Quiroga

----- 3 -----

Dear Bernardo, Augusto and Miss Sole,

I'm writing to all of you to tell you that the talk was awesome! I learnt a lot about the NASA and the INGENEERS. I enjoy all the things you said about Mars and the things of the moon! Miss Sole I congratulate you for bringing this two people to school because I think we all learnt so much!

The thing I liked the most was when we worked all together to build the pipeline because we all colaborate and put good ideas to build It. I didn't like so much to plan It because It was very difficult to put all the conditions we had to put but in the end nobody respected the one that we couldn't pass the 50cm of difference from one side to the other. Bernardo I would like to say thank you to you because you helped us a a lot on the pipeline and you tought us a lot of things and Augusto to. Miss Sole I would also like to say thank you to you because you were very atentive with us and you gave us a lot of things like the



ruler, the balloons, the pencil and more to build and plan the pipeline. Thank you to the three of you. I would like Bernardo to come again to school to teach as more things from the space, the moon and the sun. I repeat again we all learnt a lot from you and thank you!

Best Regards  
 Delfina Conde

----- 4 -----

Dear Bernardo Miss Sole and Augusto,

I'm writing to you to tell you that the confederence was very interesting. I learnt a lot about the enggenieers and the trip to mars.I enjoy a lot the pipeline we do all together.I was in the gruop that finished first but the other one was very original!

The thing I liked the most was when we were doing the pipelines baccuse we were working as enggenieers and it bacame a success!

Also I liked when Bernardo thought us how a enggenieers work and how is going to be the trip to mars.

Best regards AXEL

----- 5 -----

Dear Sole and Augusto,

I'm writing to you to comment you that it was a wonderful experiece the class and also the talk by bernardo I would like to know more about INGENEERS.

BEST REGARTES

----- 6 -----

Dear Augusto, Bernardo and miss Sole,

I'm writting to tell you that i would like to be an engineer because it was very interesting all the things you said.

I would like you to come again and another thing like these because it was fun interesting and makes us to open our mind to be creatives!

Maria Garlot

----- 7 -----

Dear Bernardo, Augusto and Miss Sole,

I'm writing to you to congratulates you on the class you give us because it was very interesting. Bernardo and Augusto, thank you for comming and teaching us all about the PIPELINES, it was so funny doing the Pipelines in group and so awesome all the things you tauch us.

The things i like most were, when you explaned all about the space ships, the solar system because it was interesting and ver mysterious, also i liked when we separated in groups, making the pipelines was very difficult but with your help we could do it. Another, was when we put 2 groups together and finally all the teams that were in the classrooms joined with us.

I would like Bernardo and Augusto to come again to explain us something differenet! THANK YOU FOR ALL!

BEST REGARDS,  
 AGUS GRIMAL

----- 8 -----

Dear Bernardo, Augusto and miss Sole,

I'm writing to tell you that your talk was very intresting Bernardo . you help us a lot augusto .miss sole thank you on your talk that you give us before it was very usefull to do the pipeline.  
 Best regards Santi.v





Dear Bernardo, Augusto, Miss Sole,

I'm writing this letter to tell you that I'm very interested in your work, on earth on planets and all do you work I'm very osom on your speech.

The thing I like the most was the pipeline, when we when with Delfina, Sol, Santiago and me to look in the trash can to look for bottles! I would like to you and Augusto to come again.

S.P:PLEASE!

Valentina Giraud ( VALÙ )

----- 9 -----

Dear Bernardo, Agosto and Miss Sole,

I am writing to you because I want to say you thank you for the good time that I spend yesterday. I like this activity and I also like the talk that Bernardo gave because it was very interesting.

The thing that I like most was when we do the Pipeline all together , I had a lot of fun. But the thing that I don't like very much was nothing because all the things were very nice. Thank you for all.

Best of regrets

Montserrat Oliva Rey

----- 10 -----

Dear Bernardo,

I'm writing to you to congratulate you on your wonderful talk, i enjot it a lot because i learnt a lot .

The thing that i liked most was whe you helped us to made the pipline it was wonderful Ii also would like to coment you that in the future i would like to be an INGENEER. 🤖.

best regards,

Zoe Gotusso

----- 11 -----

Dear Bernardo, Augusto, miss Sole,

I'm writing this letter to tell you how much I enjoyed your speech. I learnt a lot about the space, the planets, etc. It was very interesting and everybody enjoy it a lot.

The thing I like the most was when we done the pipeline all together. Even if we were without our best friends, you made as have a very nice journey and we learnt to be all together. Last but not least, we want to tell you that we admire you a lot.

Best Regards, Luz Villagra

----- 12 -----

Dear Bernardo and Augusto,

I write this letter to you because I like very much the presentation you made yesterday, it was very interesting what you said of the electricity. I like a lot when we where doing the pipelines



because we work in groups and I love that. I hope you came here again.  
 Micaela Gavotto

----- 13 -----

Dear Bernardo and Augusto ,

I'm writing to you to thank you for inviting such excellent engineers as the ones who came yesterday . I really enjoyed yesterday's lesson . It was so interesting !! I loved the way they helped to plan , build , create and develop our pipeline . The thing that I liked very much was when we built and constructed . But the thing I liked the most was when we tried to pass the ball threw our pipeline . It was awesome , marvelous and magnificent .I really thank you and congratulate you on your visite . Please , come again !

I'm very glad that I have meet you , hugs ,

María LAURA HERRERO 6th

----- 14 -----



Dear Bernardo and Augusto,



I want to let you

know that I loved your class and I found it very interesting. I liked when we did the pipeline, but I didn't liked that you said very difficult words. In my opinion your job is very interesting, but, you have to love mathematics and physics that's why, that job is not for me.

Thank You for the class,  
 Victoria Fadul

----- 15 -----

Dear Bernardo and Augusto,I WANTED TO LET YOU KNOW THAT I REALY ENJOY YOUR CLASS AND AS YOU TOLD US TO WRITE YOU IF WE WERE INTERESTED OR IF WE WANTED TO ASK YOU SOME THING,WELL I'M WRITING YOU BECAUSE OF THAT I'M VERY INTERESTINGIN ASTRONOMY AND I WANT TO ASK YOU IF YOU HAVE WEB PAGES OF ASTRONOMY. THANK YOU VERY MUCH  
 CATY

----- 16 -----

Dear Bernardo and Augusto,

Thank you for what you did, I mean to came and teach us about engenieri. I love your job because of the part of the space.

Mickaela Crespo

----- 17 -----

Dear Bernado and Augusto,  
 than youfor answer my letter I am wirtten this letter because I need you to know that you help us  
 thank you

sabry 

----- 18 -----

Dear Bernardo and Augusto

Thank you for teach us about "INGENIERIA".Your English was exelent.  
 Thank you very much Augusto for help us with the plastic bottle.  
 kisses thank you very much





----- 19 -----

Dear Bernardo and Augusto,

I'm writing this letter to tell you that the presentation that you did was excellent and very interesting we liked very much. Another thing, your English was good to!!!!!!! 🤔 thank you for all

kisses  
Sofia and Georgina.

----- 20 -----

Dear Bernardo y Augusto,

I'm writing this letter to tell that your presentation was excellent, and I think that being engineer it not very easy.

p.s, How many years does it take to go to mercury?, and thank very much for coming!!!!!!!!!!

Luciano Lazarus. 6°B"

----- 21 -----

Dear Bernardo and Augusto,

I am writing to you because I want to thank you on coming to our class and showing us ingenery. What I liked the most was when you were telling us about space. What I didn't like the most was the pipeline that wasn't much fun for me.

I hope you come again and teach us some more

From, Bradley

----- 22 -----

Dear Augusto y Bernardo,

I am writing you this letter for thanking you on coming.

I think your class was very interesting and your job too y enjoy a lot your class.

But i think you were very "comillero".I would like you to came again.

----- 23 -----

Dear Bernardo and Augusto,

I am writing this letter to you to know that your presentation was excellent. I learned many things in your class. I liked very much when we worked together to built the PIPELINE. Your class was very interesting I enjoyed a lot. Thank you for teaching as.

Melanie Wexler



## **TISP Workshop – April 16, 2009 –Mark Twain School (bilingual College).**

### Students of 5to y 6to (10 to 11 years old)

----- 1 -----

Dear Mr Flood and Mr Augusto,

I m writing this letter to thank you for coming to teach us how to do our prototype.It was fantastic tou see you.I like a lot working in groups.My favorite part was when one group supported 21 kilos of load.

The reason I like the lesson is that I enjoy when we did our prototype alone.I would like next time to do MINI HOUSES

It was fantastic! Santi Rubio

----- 2 -----

Dear Miss Sole,

I'm writing this letter to thank you for organizing our first SCIENCE TECHNOLOGY class.I loved building,firts we did like a tower,but we realized it wasn't going to support so we changed and built it like a little box,that one supported the full glass plastic plus four dictionarys. It was great.I enjoyed a lot when we tested our projects,we didn't win but it was very funny.Thank you for buying everything , for calling Mr.Flood and Augusto,for helping us and for leting us work in teams THANKS!!!I would like next time to build a little house. Mai Rojas

----- 3 -----

Dear Mr. Augusto,

I'm writing this letter to thank you for helping us to make our building. I liked our lessons os "SCIENCE TECNOLOGY".I liked when we did teamwork.Thank you for putting a lot of scotch tape. I would like next time to go outside and do stick houses.

AGUSTIN MOYANO

----- 4 -----

Dear MR Flood,

Im writting this letter to thankyou for your beautiful lesson about Science Technology, there I learned lot of engineering and I realized that it can be my job in the future.Our structure supported 13,100 kg and then it failed because we put more load in one side than the other.Iwould like next time to make a building plan.

FROM:AGUSTIN ROQUE

TO:MR FLOOD

----- 5 -----

Dear Miss Sole,

Im writing this letter to thank you for giving us the the picture presentation.I enjoyed a lot , it was the best because I like very much the idea of doing our own structure. The best part for me was started doing it, because we did it and it fell at the moment. I was so interested in all the buildings.Our prototype was small, circular and it supported 15.500 kg. Next time I would like to do something like a tecnology thing. I like to work in teamwork because we share many things. thank you for all that you do ,I like it a lot.

I loved building our structure!!. KISS Agus Parisi





----- 6 -----

Dear Mr Augusto,

I'm writing this letter to thank you for coming here, we had a lot of fun doing all those incredible things. I'm so interesting in building things and inventing things. I enjoyed a lot when we weight the books on the groups. The best part was when we invented all the structure and while we were doing it. Also when the structure failed, it was very funny !!.

I like you to coming here to teach us those things ....  
 thank you for coming!!

BYE Maria Cruz Soria

----- 7 -----

Dear Mr Flood,

Im Writing this letter to you because you help us doing our structure . I enjoyed a lot when we were going to win for 21 kg but you said that it fall down . And I like a lot your mini computer thank you for coming ,come again!!!!!!!!!!!!!!

Rodrigo Coaraza

----- 8 -----

DEAR MR AUGUSTO,

I LOVED BULDING OUR STRUCTURE,I IJOYED A LOT WHEN WE BUILT AND THEN WHEN WE PUT THE THINGS ON TOP.I LOVE WORKING IN TEAMS AND HAVE THE OPPORTUNITY TO CHOOSE OUR FRIENDS.  
 THE REASON I LIKED THE LESSON IS THAT IN ENJOY ALL BUT ALL.I HOPE YOU COME AGAIN SOON FROM:LU MENZI (THE GIRL THAT ASKED ALL THE TIME FOR THE SCOTCH TAPE.

----- 9 -----

Dear Mr. Flood,

I'm writing this letter to thank you for all that you did it. You was a funny engineer, and you're going to be a funny engineer, You answered all my questions and If in my life I have a problem I'm going to ask you because you're the best engineer that I know. The work of a engineer is the best. Thank you for coming to our school.

JUAN CRUZ

----- 10 -----

Dear Mr Flood,

I am Nicolle Albera. I writing this letter to you thank you for explaining us tecnology engineering. I am so interested in all these things that we learnt with you and with Mr Augusto. I love building a lot and more with cards. I enjoyed a lot when we put the books and our prototype collapsed. It was so funny. I would like next time to do some houses but with sticks. The reason I liked the lesson is that I enjoied when we drive you crazy with the scotch tape.

----- 11 -----

Dear Mr Flood,

Im writing this letter to thank you for teaching us all that you taught us, show and I like a lot your job, and a I think that you are a good engenier. i likea lot the class that you do of science technology. I will follow your example thanyou

sofi weissben



----- 12 -----

Dear Mr Flood,

I'm writing this letter to thank you that you came. I loved building our structure. I'm so interested in building structures and it was fantastic your Power Point presentation and it was very good the team work and that we learned about the critical load. Build our prototype was the best part because we learn about structures and how to design them. When I designed I remember hives. I would like next time see the aerospace structures like the rockets you are designing.

**PEDRO SALAZAR(pepe-salazar@hotmail.com)**

----- 13 -----

Dear Mr Flood,

I'm writing this letter to thank you for coming school and teaching us what is an engineer life like. I enjoyed a lot when we built the structure with cards. Our structure failed.

When I designed I remembered a glass because some time ago I put a lot of materials and the glass resisted the load.

I would like next time to build little houses. See you!!

----- 14 -----

DEAR MR AUGUST:

I'm writing this letter to thank you for coming to our class first because we lost classes and second because it was funny and you help us to build our prototype. I think you are a good person and a good engineer. Well thank you and I want you to visit us again.

Your friend tomas aldao

----- 15 -----

Dear mr flood,

I'm writing this letter to thank you for coming here to our class, I thought that was interesting your power point presentation and when you talk about engineering. I loved building structures, when I designed my structure I remembered the great buildings of Chicago cause of that I build a good structure. Also I remembered when we put all the books on the top of the structure The reason I liked the lesson is that I enjoy when we did the structure. I would like next time to make structures of ice cream sticks.

----- 16 -----

Dear Mr Flood,

I'm writing this letter to thank you for coming here and teach us about engineering, I like when we build our prototype in teamwork and we put books and dictionaries on it. I like when the structure failed and came down and we measured the critical load. And when we see that missile in the picture presentation. I would like next time if we do a structure that you gave us more cards for our structure.

MATIAS

----- 17 -----

Dear Mr Flood,

I'm writing this letter to thank you that you came. I loved building our structure. I'm so interested in building structures and it was fantastic your Power Point presentation and it was very good the



team work and that we learned about the critical load. Build our prototype was the best part because we learn about structures and how to design them. When I designed I remember hives. I would like next time see the aerospace structures like the rockets you are designing.

----- 18 -----

Dear Mr Flood,

I'm writing this letter to thank you for coming to give us science Technology. I loved building things. Like the structure made up of cards. I liked working in groups. Our prototype resisted a lot, but we put 3 meters of scotch tape. It was fantastic. Next time I would like to make an internal motor for (an electric car, a bot, etc). I would like to be an engineer.

Facundo Lopez Escala





## TISP Workshop – August 12, 2009 –Mark Twain School (bilingual College).

### Students of 5to y 6to (10 to 11 years old)

----- 1 -----

Dear Mr Pablo and Miss Sole,

I am writing this thank you letter to let you know that I enjoyed designing a sail boat. I also liked working in teams and using a lot of materials. The work shop was awesome! Naval engineering is very funny. The best part of the sail boat's design was engineering and testing if it worked.

Thank you for teaching me about naval engineering!

ramiroalvarez1998@hotmail.com

----- 2 -----

Dear Mr Pablo and Miss Sole,

I am writing this thank you letter to tell you that the workshop was fantastic! I liked the design of my group, the teamwork and the workshop you did was worth participating. And when we tested our sailboat we felt nervous.

was very interesting when you talked about naval engineering

Tomas otero

----- 3 -----

Dear Mr. Pablo and Miss Sole,

I am writing this thank you letter to tell you that before you came to our school I didn't like engineering but now that you came I like it. What I liked the most was designing. We worked in teams and with lots of materials. Our sail boat wasn't the best, but I liked it. When I grow older I can be a naval engineer. I want to have my own workshop. THANK YOU FOR COMING!

----- 4 -----

Dear Mr Pablo and Miss Sole,

I am writing this thank you letter to tell you about the sail boat. It was very funny the teamwork at the workshop, now I know what naval engineering is all about. I liked when Miss Sole and you tested if the boats worked, you gave us the materials and you helped us with the design.

Thank for coming bye bye.

Ezequiel Pernochi

----- 5 -----

Dear Miss Sole and Mr. Pablo,

I'm writing to let you know about my amazing experience in Science and Engineering!

It was really awesome! So freakin' awesome! (sorry, I got mad, :P)

Pablo, a naval engineer, showed us a wonderful and fun way of designing a sail boat and how to build it!

I was working in teamwork, teamed-up with Agustina Sachetta, Milagros Escudero, and Ezequiel Pernochi. They are really great partners.

At first, I didn't like teamwork so much. :(

But now, I think it's a great idea, an exciting experience, and a fabulous way of stimulating friendship, fun, and, OF COURSE, love for each other.



I'm looking forward to hearing from you.  
 Love,  
 hipolito

----- 6 -----

Dear Mr. Pablo and Miss Sole,

I am writing this thank you letter to tell you that the workshop was awesome! We did teamwork and we built a very nice sail boat. I liked designing the sail boat because they gave us a lot of materials. What I liked the most was when Mr. Pablo and Miss Sole came to our table and they told us a lot of positive comments. I love naval engineering. Engineering is a very interesting subject.

Thank you for coming!

Franca Ovando.

----- 8 -----

Dear Mr. Pablo and Miss Sole:

I am writing this thank you letter to let you know that the workshop on boats was awesome, I enjoyed very much participation and, I like a lot when we made the boat because we were working in teams. I also liked when we put a tangerine on top of the boats to see if it floated but my boat didn't resist it, it was very funny but then we redesigned it better so I'm very happy about it

Thank you for coming

ROMULO

----- 9 -----

Dear Mr Pablo and Miss Sole:

I'm writing this thank you letter to tell you that the sail boats were very funny and interesting. Something I love was when you taught us the types of engineering, the materials were appropriate "when I saw all the materials I thought that it was something interesting".

Thanks coming

Juan

----- 10 -----

Dear Pablo and miss Sole,

I am writing this thank you letter to tell you I love designing a sail boat.

What I like the most was when we designed the structure of the boat, it was challenging!

Thank you for the materials, for letting work in teams, and for testing if it works. I liked when Pablo taught us about engineering.

----- 11 -----

Dear Mr Pablo and Miss Sole,

I am writing this thank you letter to let you know that I enjoyed a lot the engineering workshop. What I like the most was when we tested the boat on the water and when we built the boat because there we did teamwork. It was very nice the part in which we were designing the sail boat structure. When we were testing if it worked our sail boat it was very funny. The materials were super! and something else I liked was the part in which Pablo taught us about the work of other engineers.

thank you for coming  
 sofi salmini

----- 12 -----

Dear Miss Sole and Pablo,

Thank you for teaching us many things and also for having the beautiful moment we had the other day. Then, when we made the sails in groups, we had to design and then we had to build it so that



it floated on the water. It was a beautiful experience!

Thanks a lot !!

Cande Argañaraz...

----- 13 -----

Dear Mr Pablo and Miss Sole,

I am writing this thank you letter to tell you I learned a lot by doing our sailboat, it was funny. I would like you to do it again although mine was broken and got out the sail. The materials were good and we did a lot of teamwork.

The workshop of science technology taught me that designing the ship is difficult but not impossible.

Thank you.

Manuel Tillard

----- 14 -----

Dears Mr. Pablo and Miss Sole,

I'm writing this thankyou letter to tell you I loved doing the sail boats and testing. I enjoyed a lot. We got all the materials and we started. I loved doing the sail boats, it was fantastic. Miss Sole tested ours and it worked. I was surprised, I thought it wasn't going to float.

Thank you for coming.

Santiago M. Maldonado

----- 15 -----

Dear Pablo,

Thank you! for the lesson it was excellent, my best moment was when we built the ships, it was FANTASTIC. It was so funny when we put the ships in the water I LOVED IT. Thank you again for this lesson I want that you come again and teach us something else. see you again  
magdalena prevero

----- 16 -----

Dear Mr Pablo and Miss Sole,

I am writing this thank you letter to let you know that I enjoyed a lot the engineering workshop. What I liked the most was when we tested the boat on the water and when we built the boat because there we did teamwork. It was very nice the part in which we were designing the sail boat structure. When we were testing if it worked our sail boat it was very funny. The materials were super! and something else I liked was the part in which Pablo taught us about the work of other engineers.

thank you for coming

----- 17 -----

Dear Pablo:

I'm writing this letter to say you THANK YOU!! It was the one of the best day of my life, we had a lot of fun. At first, my boat didn't work well but then you came and helped me with my boat. I won't you to know that I appreciate that. It would be great to repeat it.

Yours Faithfully

CAMILA RODRIGUEZ 5<sup>o</sup>A



## SUMMARY

### 1. Schools trained

- a. We don't have this information, but we will work to improve this point.

### 2. Attendees

- a. **Teachers trained:** 415 (approximately).  
b. **Students trained:** We don't have this information, to improve too.  
c. **IEEE Student Members trained:** 250 (approximately).  
d. **IEEE High Grade Members:** 50 (approximately).

TISP	DATE	CITY	ATTENDEES		
			IEEE	Teachers	Students
1	22/10/2007	Córdoba	-	22	-
2	09/06/2008	Córdoba	-	25	-
3	29/08/2008	Córdoba	25	-	-
4	05/09/2008	Córdoba	70	70	-
5	16/10/2008	Córdoba	-	4	70
6	03/12/2008	Córdoba	-	60	-
7	16/04/2009	Córdoba	-	60	2
8	29/04/2009	Buenos Aires	-	8	-
9	12/06/2009	Buenos Aires	-	2	40
10	12/08/2009	Córdoba	-	2	60
11	27/08/2009	Córdoba	62	-	-
12	17/05/2010	Córdoba	-	2	60
13	26/08/2010	Asunción (Py)	35	-	-
14	24/09/2010	Catamarca	-	50	250
15	20/10/2010	Catamarca	-	20	-
16	21/10/2010	Catamarca	-	10	15
17	24/06/2011	Santiago del Estero	-	20	160
18	13/10/2011	Rosario	80	-	-
19	20/10/2011	Catamarca	-	20	-
20	15/06/2012	Córdoba	8	4	60
21	-/08/2008	Catamarca	-	3	30
22	-/08/2009	Catamarca	-	30	20
23	15/09/2009	Córdoba	-	2	60
24	-/11/2010	Buenos Aires	-	2	60

Table. TISP workshops organized by Argentina Section.



### 3. Greetings Letters

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- a. Are attached to report, in previous section.

### 4. How the Workshops were developed?

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- a. Mostly workshops were developed with a planning a month before the event. Teachers were contacted almost entirely by IEEE volunteer members, except Workshop held on December 3, 2008, where Direction of Pre-University Education helped to IEEE Córdoba Subsection.
- b. Should be noted that no monitoring was conducted to most of the teachers who attended the TISP, this situation should be improved.

### 5. Expense Report

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- a. TISP Workshop 22/10/2007.
  - i. Expenses: U\$S 75, covered by EAB.
- b. TISP Workshop 09/06/2008.
  - i. Expenses: U\$S 65, covered by IEEE Córdoba Subsection.
- c. TISP Workshop 29/08/2008.
  - i. Expenses: U\$S 30, covered by UNCa Student Branch - RNR 2008.
- d. TISP Workshop 05/09/2008 (organized by EAB).
  - i. Expenses: U\$S ??? (we don't know), covered by EAB.
- e. TISP Workshop 16/10/2008.
  - i. Expenses: U\$S 70, covered by IEEE Córdoba Subsection.
- f. TISP Workshop 03/12/2008.
  - i. Expenses: U\$S 400, covered by EAB.
- g. TISP Workshop 16/04/2009.
  - i. Expenses: U\$S 30, covered by IEEE Córdoba Subsection.
- h. TISP Workshop 29/04/2009.
  - i. Expenses: U\$S 50, covered by UTN-FRBA SB.
- i. TISP Workshop 12/06/2009.
  - i. Expenses: ??? (without data).
- j. TISP Workshop 12/08/2009.
  - i. Expenses: U\$S 60, covered by IEEE Córdoba Subsection.
- k. TISP Workshop 27/08/2009.



- i. Expenses: U\$S 60, covered by IEEE Argentina Section.
- l. TISP Workshop 15/10/2009\*.
  - i. Expenses: U\$S 10, covered by IEEE Córdoba Subsection.
- m. TISP Workshop 17/05/2010.
  - i. Expenses: U\$S 30, covered by IEEE Córdoba Subsection.
- n. TISP Workshop 26/08/2010.
  - i. Expenses: U\$S 60, covered by UNA SB - RNR 2010.
- o. TISP Workshop 24/09/2010.
  - i. Expenses: ??? (without data).
- p. TISP Workshop 20/10/2010.
  - i. Expenses: U\$S 30, covered by UNCa SB.
- q. TISP Workshop 21/10/2010.
  - i. Expenses: U\$S 30, covered by UNCa SB.
- r. TISP Workshop 24/06/2011.
  - i. Expenses: ??? (without data).
- s. TISP Workshop 13/10/2011.
  - i. Expenses: U\$S 80, covered by UNR SB - RNR 2011.
- t. TISP Workshop 13/10/2011.
  - i. Expenses: U\$S 40, covered by UNCa SB.
- u. TISP Workshop 15/10/2012.
  - i. Expenses: U\$S 50, covered by IEEE Argentina Section.

\* We reused materials (rest of other TISP).

## **6. Recommendations - Conclusions**

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- a. Expand TISP to all provinces that have Student Branch. It's very important work together with Argentina Section.
  - i. There are only five or six Student Branches strong involve to the program. So, it's necessary involve more Student Branches!!!!
- b. Find more fund resources. Many expenses were covered by members of IEEE Córdoba Subsection.
- c. Improve monitoring of teachers attended to the workshop, it's works was not done very well in these years.





- d. Remember delivery the survey to teachers attendees to the TISP and then to send survey completes to EAB. We fail frequently with this issue.
- e. Work all together: Argentina section, Cordoba Subsection and students Branches.
- f. Try to involve to TISP program more college, schools and sciences institutions.



*Evolucionando la Tecnología  
para la Humanidad*



**Prepared by:** Augusto José Herrera

**Collaboration:** Federico Di Vruno | Gustavo Soto

**Event:** TISP activities - Argentina Section

**Dates:** June, 2012