PI TAU SIGMA ANNUAL CHAPTER REPORT

2015-2016

Guanajuato Beta Theta

A. Initiations

The proper selection of new members for Pi Tau Sigma is a determined factor in the chapter success. Therefore, we must consider the following factors for the selection of outstanding mechanical engineering students:

- School Performance.
- Soundness of character, moral, and honesty.
- Members and Advisor´s Opinion.

For the selection procedure, we consider all the sophomore mechanical engineering students with a Mexican Grade Point Average above 8.5 out of 100. After a thorough analysis between the members and advisor, only the students that meet the above factors and the required grade are selected. The selected students are tested along the academic year, if they keep a good performance and further shows cooperation and interest with the chapter, they are initiated during the next academic year ceremony.

This year we had 2 undergraduates, 1 graduate and 1 honorary members selected to be initiated in July 27th. Also we selected 9 students to be considered for initiation the next academic year (these students will be involved in all Pi Tau Sigma activities, and based on their performance they could attain final selection).

B. Chapter Activities

During this academic year, we got involved in the following activities:

Weekly Meetings.

Along the semester, the members participated in meetings that aim to follow the activities of the chapter.

Participation in the Pi Tau Sigma National Convention 2016 at USC.

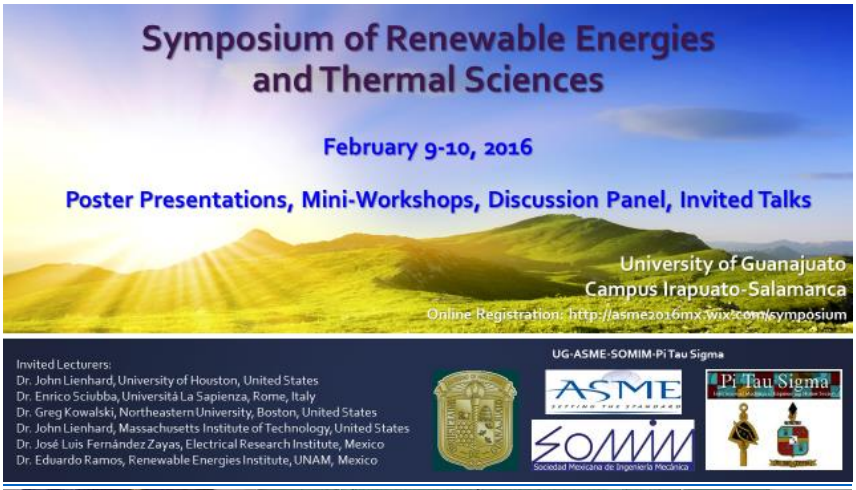
This year we took part in the Pi Tau Sigma 101st annual National Convention, which was hosted by the University of Southern California from February 19 to February 21, 2016.

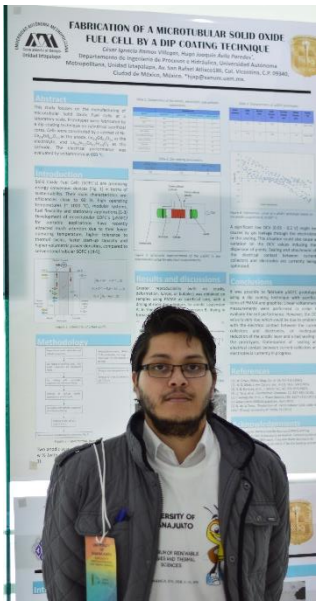
Graduate Student Symposium

Within our activities, we took part on the organization of the first Symposium of renewable Energies and Thermal Sciences organized by the University of Guanajuato, ASME-SOMIM student chapter, and Pi Tau Sigma Guanajuato Beta Theta Chapter. The event had speakers from University of Houston (USA), the Università di Roma 1 “Sapienza” (Italia), the Massachusetts Institute of Technology (USA), Northeastern University (USA), the Electrical Research Institute (Mexico), and UNAM (Mexico).

The goal of the Symposium is to bring together every year, graduate students from different Mexican universities to know what their peers are doing in their respective area of research.

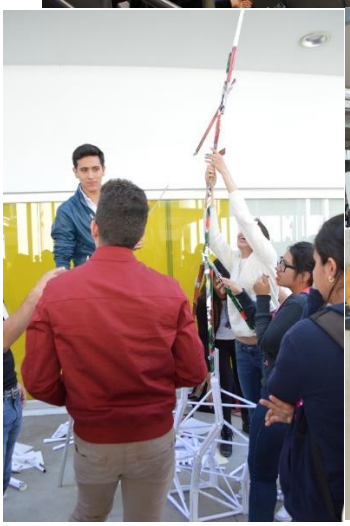
A link for the event´s website is attached below:
http://asme2016mx.wix.com/symposium





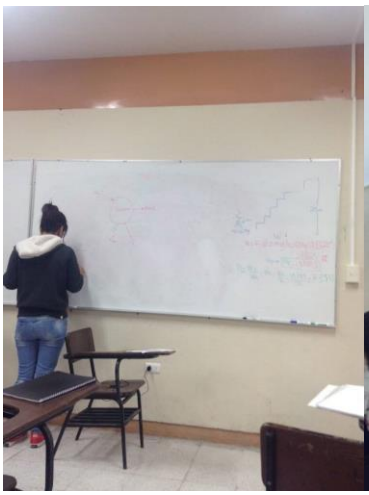
Women in Engineering

The Women in Engineering program, from the ASME student chapter, seeks to promote more women to study engineering. This year we helped with the activities organized by the ASME student chapter for this event which brought together about 300 women interested in engineering. In this event, activities ranging from vocational talks to games, which seek to draw the attention of women to engineering.



Tutoring

Throughout the academic year, we dedicated to provide tutoring to senior year high schools on the subjects of physics and mathematics.



Ping-Pong Tournament

The Ping-Pong Tournament was an activity within the Student`s Day celebration from May 21 to May 26. The objective of this activity was to promote the sports in the campus. There were 1st and 2nd place prizes for the winners of the tournament.

Solidworks Course

The objective of this activity was to provide an introductory course about the basic use of the software Solidworks®, as user's interface, draw sketches, 3D modeling, and assemblies. The course lasted 20 hours and was attended by 45 students.

Matlab Course

The aims of this short course are to introduce the elements and practicalities of computer programming through the MATLAB® mathematical computing environment. The following are the topics cover in the course: using elementary and matrix functions, sparse matrices, implementing and running algorithms, basic numerical methods, creating graphs in 2 and 3 dimensions, interfacing with other applications through GUIDE and Simulink. The course consisted of interactive lectures with students doing sample problems in real time. This course was offered for 5 weeks with a total duration of 20 hours.

Senior Citizens Center

The main objective of this activity is to help this kind of independent institutions that are only supported by donations from people. This time, the Pi Tau Sigma chapter helped this institution installing fans in the rooms to enhance the ventilation and the lifestyle of the people who live there. Also the wheelchairs that were useless were repaired and cleaned, now these wheelchairs are fully available for use.