

## **Tijuana School of Engineering**

An agreement was carried out with the AERODESIGN Company that strengthens the aerospace area in Tijuana. It includes very specific benefits such as scholarship support (one for 100% for a new admission Mechatronics student, and another one for 50% for a returning student; it also includes giving an Aerospace Design Specialization course at a plant.

Students from CETYS Engineering presented dissertations with great success at CITEDI, and competed with graduate students; the lectures were essentially about the manipulation of robotic elements by using Bluetooth.

We managed to develop an in-house operation manual for the production of food at Pastas y Galletas de Tijuana, S.A. de C.V.; innovation projects funded by CONACYT.

We managed a meaningful advancement on the alternate energy program; this project received funding from the ICF-SEMPRA Foundation. We have achieved the manufacturing of two educational and eye-catching prototypes that will be applied to create awareness in different educational communities of our region; this among parents as well as among kids and youth. The project incorporates joint efforts with the School of Psychology.

Two students finished their undergraduate degrees, one from Canada and the other one from France; both Mechatronic students that have concluded their exchange processes successfully. We also highlight the presence of one student from Graphics Design Engineering from Canada, and the arrival of one more student from Seattle.

## **Mexicali School of Engineering.**

We have a report that several Engineering students had an outstanding participation in academic activities and contests during 2010, and the ones that stood out the most were: Jorge Rodríguez from Electronic Cybernetic Engineering on a Summer stay from the CONACYT Research of CICESE, Osvaldo Carrasco and Guillermo Contreras from Electronic Cybernetic Engineering were awarded the Samsung Scholarship, students from Graphics Design Engineering are carrying out internships in video game companies such as Gameloft & CMI, and students Gustavo Ovies & Rodolfo Mercado from Mechatronic Engineering were awarded the Linkage Committee School-Company scholarship from Mexicali.

On the side of student projects, it is announced that the Mechanical Engineering students managed to design and manufacture a tubular automobile, and to compete with excellent results at an international level in Washington (Mini-Baja). They also managed to design

and built the first functional prototype of an airplane, which was flown at the Mexicali campus. An important achievement of students in the industry was obtained by Electronic Cybernetic Engineering and Mechatronic Engineering students by carrying out technology development projects at the Skworks Company.

It is announced that in the faculty category we achieved: the incorporation to full-time faculty of Dr. Carlos Solorio with a Doctoral degree from the University of Washington; Bernardo Valadez had great advances on his Doctoral Thesis Dissertation which will defend on the first semester of 2011. Professor Jesus Corona has successfully represented the CETYS System in the aerospace events, and especially in the forums from the new born Mexican Space Agency. Professor Guillermo Cheang has represented the CETYS System in the National Association of Education Institutions in Information Technology. In the faculty category, it is also announced that 8 professors from the Engineering area participated in innovation projects funded by CONACYT where they worked for 7 regional companies:

PAGASA, LIBERT CARTON, EMPACADORA NORTEÑA, CRISTAPURO, E-SYSTEMS, HIELO CACHANILLA, COMUNICACIÓN MODULAR INTEGRAL. From this we had an excellent linkage in applied research activities that will redound in the school's academic quality improvement.

On the international nuance, it is announced that on this 2010 we managed to graduate the first Engineering student with the Double Degree CETYS Mexico- Hogeschool Zeland from Holland in the electronics area; Double Degree Program with such university.

### **School of Engineering Ensenada**

Dr. Isaac Azuz applied and was selected to participate in the Erasmus Mundus Program by giving a course at a master's degree level in the Universidad Politécnica de Barcelona during autumn of 2010.

Mr. Carlos A. González, Director of the School of Engineering in Ensenada, received the Doctoral degree in Engineering.

We started projects with the industry that were funded by CONACYT under the guidance of Socorro Lomelí.

The XXII EXPO-Eng was carried out with the exhibition of student projects and achievements that was opened to the community; the jury was comprised of engineers from the entrepreneur and industrial sectors.

The VII Working Days of Virtual Instrumentation on behalf of the National Instruments Company and the School of Engineering from Ensenada was attended by engineers from companies and research centers of the State of Baja California and Sonora.

The Mobility Program for Engineering was extended to 4<sup>th</sup> semester high school students by means of supporting their CETYS High School career guidance, and students from the 6<sup>th</sup> semester from CBTIS.

Student registration in Engineering achieved a historical peak of 135 students on summer of 2010 that is looking to get support via the Consolidation of Academic Quality.

There were state courses given in the areas of simultaneous specialization between the three campuses for 5<sup>th</sup> semester Engineering students via videoconference, and face-to-face on the host campus.