



# International Course on Soil Science applied in Mexican tropic soils.

PhD. Patricia Fragoso Servón

## Report

Earlier this year, from July 18 to 27 was held the international course in Soil Science applied to soils in the Mexican tropics with a duration of 80 hours, the course was shifting headquarters at the University of Quintana Roo (UQRoo), The Colegio de Posgraduados campus Tabasco (Col.Pos. Tabasco) and the University of Science and Arts of Chiapas (UNICACH).

The opening of the course was conducted by Dr. Jaime Cuevas Dominguez, head of the Department of Sciences of the Sciences and Engineering Division at the University of Quintana Roo.

Undergraduates and graduates from UQRoo, UNICACH, ECOSUR and staff from institutions such as INEGI and INIFAP signed to the course.



Figure 1. Students.

The course instructors were:

PhD. Patricia Fragoso Servón	University of Quintana Roo
PhD. (c) Alberto Pereira Corona	University of Quintana Roo
PhD. Silvia Ramos Hernandez	University of Science and Arts of Chiapas
PhD. Francisco Bautista Zúñiga	National Autonomous University of México
PhD. David Palma Lopez	Colegio de Posgraduados campus Tabasco
PhD. Joel Zavala Cruz	Colegio de Posgraduados campus Tabasco

The course was scheduled in three parts, basic concepts, practical approaches and applications.

In the first part, conducted at the University of Quintana Roo from 18 to 20 July, the basics of soil were discussed, the importance of laboratory and field work, and recognizing the morphology of the soil profile for the dominant soil types in a tropical karst area of Quintana Roo. PhD. Patricia Fragoso and PhD. Silvia Ramos conducted training.

The second part was held at the Colegio de Posgraduados campus Tabasco from 21 to 23 July, it corresponded to the practical part of the work with the profile description and soil classification. At its own time, a visit to the Research Laboratory was held.

Fieldwork was conducted in the floodplain under supervision of PhD. David Palma López with over 30 years experience in soils of Tabasco.

PhD. Joel Zavala spoke about the geography of soils.

In Tabasco was described Acrisols, Luvisols, Umbrisols and Gleysols in growing areas.



Figure 2. PhD Palma and PhD Ramos describing the soil profile in Tabasco.

PhD. Silvia Ramos showed tropical soils of Chiapas on July 24, students saw Andosols and Acrisols.

PhD. Francisco Bautista gave the last part, related to applications from 25 to 27 July in facilities of UNICAH, in this part we had the opportunity to use software and various applications for climate and soil analysis in the field and in cabinet.



The geography of soils together with the classification and soil genesis have resurfaced to understand environmental services provided by soils and to give them a sustainable management, an important point for ecological and territorial planning issue addressed by PhD (c) Alberto Pereira.

The land use patterns, are the technical knowledge of the use of the soil science in planning. The final part of the study of soils should be to incorporate this knowledge into education plans of the basic levels of formal education programs, like primary, secondary and high school.

Figure 3. PhD. Fragozo teaching the use of soil Calculator



Finally, we visited the facilities for soil studies and laboratories of this University.

At 19 hours of July 27, the course was closed during the delivery of certificates and farewell toast.

We hope this is the first of many international soil science courses applied to tropical soils of Mexico. For the sake of soil science, the environment, the people and the country.

Figure 4. PhD. Ramos in an interview with the local TV



**Photo gallery**

Figure 5. Using the phone and computer applications



Figure 6. Welcome in UQRoo



Figure 7. Describing a profile in Quintana Roo



Figure 8. At the University of Quintana Roo



Figure 9. At the Colegio de Postgraduados campus Tabasco



Figure 10. At the UNICAH



Figure 11. Analyzing Field properties in Quintana Roo



Figure 12. Visiting the laboratory in Tabasco



Figure 13. Describing soil used to grow pineapples in Tabasco



Figure 14. Receiving diplomas





2015

Año Internacional  
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