

## REPORT OF 11<sup>th</sup> INTERNATIONAL IGeS SCHOOL: HEIGHTS AND DATUM HEIGHT

Universidad Técnica Particular de Loja, Ecuador,

October 7 – 11, 2013.

*The 11th International IGeS School: heights and datum height* has been organized at Geology, Mine and Civil Engineering Department of Universidad Técnica Particular de Loja, Ecuador, from 7 to 11 October, 2013.

**Organizing Committee:** Prof. Fernando Sansò (IGeS), Prof. Richard Serrano (UTPL)

### **Teachers and lectures:**

The School includes both theoretical lectures and computational exercises on heights and datum height, given by Professors: Fernando Sansò and Riccardo Barzaghi, Politecnico di Milano, Italy; Nikolaos Pavlis, National Geospatial Intelligence Agency, USA; Denizar Blitzkow, Escola Politécnica da Sao Paulo, Brasil; and, Laura Sánchez, DGFI, Germany.

### **Final Program:**

1<sup>st</sup> day: Monday, October 7, Prof. Sansò F.

08:45 Inauguration 11<sup>th</sup> IGeS School

09:00 – 12:30 Lecture 1: Geodetic Heights, Part 1.

15:00 – 18:30 Lecture 2: Geodetic Heights, Part 2.

2<sup>nd</sup> day: Tuesday, October 8, Prof. Pavlis N.

09:00 – 12:30 Lecture 3: The Global Gravitational Model EGM2008, Part 1.

15:00 – 18:30 Lecture 4: The Global Gravitational Model EGM2008, Part 2.

3<sup>rd</sup> day: Wednesday, October 9.

09:00 – 12:30 Lecture 5: Modeling the topographic effect Terrain Correction, Helmert Reduction; from TC to Residual TC, Prof. Blitzkow D.

15:00 – 18:30 Lecture 6: Local improvements of the Geoid, Prof. Barzaghi R.

4<sup>th</sup> day: Thursday, October 10, Prof. Barzaghi R.

09:00 – 12:30 Exercises:

15:00 – 18:30 free evening.

5<sup>th</sup> day: Friday, October 11, Prof. Sánchez L.

09:00 – 12:30 Lecture 7: Vertical datum standardization, Part 1.

15:00 – 18:30 Lecture 8: Vertical datum standardization, Part 2.

Coffee breaks: 10:15 – 10:45 / 16:15 – 16:45

Lunch break: 12:30 – 15:00

**Participants:**

The total number of participant was 15. They come from Brazil, Colombia, Dominic Republic, Ecuador, Egypt, Greece, Mexico, United States of America and Venezuela. The list of participants is:

<b>No.</b>	<b>NAME</b>	<b>COUNTRY</b>
1.	Almeida Vega Margarita	Mexico
2.	Arciniega Susana	Ecuador
3.	Carranco Oscar	Ecuador
4.	Cioe Pérez Víctor	Venezuela
5.	Coyago Remache Ricardo	Ecuador
6.	Espinosa Cardeña Juan	Colombia
7.	Holteinson Henr Alexander	Dominic Republic
8.	Kelly Kevin	United States of America
9.	Luciene Ferreira Gama	Brazil
10.	Mansi Ahmed	Egypt
11.	Mora Torres Francisco	Colombia
12.	Pilapanta Amagua Christian	Ecuador
13.	Trejo Manuel	Colombia
14.	Vatalis Antonios	Greece
15.	Virla Alvarado María	Venezuela

**Table 1: Participants**



**Picture 1: Schools participants**

**Distributed documents:**

Students have been some printed lectures notes, and IGeS CD with software and data for exercises. At the end of School, Local Committee gave a CD with all the lectures presented in the School, photos and Loja city video. Each student and professor received a Participation Certificate.



**Figure 1: Participation Certificate Document.**

**School venue:**

The venue of 11th IGeS School was UTPL Campus, [www.utpl.edu.ec](http://www.utpl.edu.ec) Theoretical morning lectures were held in Virginia Riofrío Auditorium, Electronic Department. The exercises were realized in Informatics Lab of Electronic Department.



Picture 1: UTPL Campus (aerial view)

**11<sup>th</sup> IGeS Committee:**

President: Riccardo Barzaghi, [riccardo.barzaghi@polimi.it](mailto:riccardo.barzaghi@polimi.it)

IGeS Coordinator: Giovanna Sona, [giovanna.sona@polimi.it](mailto:giovanna.sona@polimi.it)

Local Coordinator: Richard Serrano, [rgserrano@utpl.edu.ec](mailto:rgserrano@utpl.edu.ec)

Official School web site: [www.11iges.utpl.edu.ec](http://www.11iges.utpl.edu.ec)

**Registration fees:**

The registration fee for attending 11<sup>th</sup> IGeS was USD 350. The fee covered participation to lectures, exercises, professor's notes, CD with all School material, certificate and coffee breaks.

**Sponsors:**

- Universidad Técnica Particular de Loja, [www.utpl.edu.ec](http://www.utpl.edu.ec)
- International Geoid Service, <http://www.iges.polimi.it/>
- Bernoulli Society, International Year of Statistics, <http://www.bs2013.org/>
- Instituto Panamericano de Historia y Geografía, <http://www.ipgh.gob.ec/>
- Secretaría de Educación Superior, Ciencia, Tecnología e Innovación, <http://www.educacionsuperior.gob.ec/>

**Feedback questionnaire:**

A questionnaire (taken from 9<sup>th</sup> IGeS School) was completed by 7 of students (50%). The results of this survey are:

	TOPIC	VERY POOR	POOR	SUFFICIENT	GOOD	VERY GOOD
1	Length of School			2	5	
2	Scientific level				1	6
3	Quality of lectures/ notes			1	2	4
4	Quality of teachers/lectures					7
5	Quality of computer exercises		1	4	1	1
6	Overall School evaluation				2	5

**Other pictures.**



