

International IGeS School
“THE DETERMINATION AND USE OF THE GEOID”
Politecnico di Milano, Campus Como 15 – 19 September 2008

REPORT

The VIII International Geoid School ‘The Determination and Use of the Geoid’ has been organized at the Como Campus of the Politecnico di Milano, from 15 to 19 September 2008.

Organizing Committee: Prof.Fernando Sansò, Dr.Giovanna Sona

Teachers and Lectures

The school include both theoretical lectures and computational exercises on local geoid computation, given by Professors F.Sansò (Politecnico di Milano), R.Forberg (...), N.Pavlis(...), C.Tscherning (University of Copenhagen), M.Sideris (University of Calgary).
On the first day a seminar on gravity data collection and validation was given by Prof.M.Sarrahilh (BGI).

Topics and scheduling followed the following program:

1st day – Monday 15 September - Prof. F.Sansò

9:00 – 12:30 / 14:00 – 15:00 Theory for Geoid Computation ,
The Remove Restore Concept and Collocation
15:00 - 18:00 **Prof. M.Sarrahilh (BGI)**
Seminar on gravity measurements and validation for land and marine gravity data

2nd day – Tuesday 16 September - Prof. R. Forsberg

9:00 – 12:30 The Terrain Effect in Geoid Estimation
14:00 – 15:00 Exercises

3rd day – Wednesday 17 September - Prof.N.Pavlis

9:00 – 12:30 The Global Geopotential Models
14:00 – 15:00 Exercises

4th day – Thursday 18 September - Prof.C.Tscherning

9:00 – 12:30 The Collocation Method in Geodesy
14:00 – 15:00 Exercises

5th day – Friday 19 September - Prof. M. Sideris

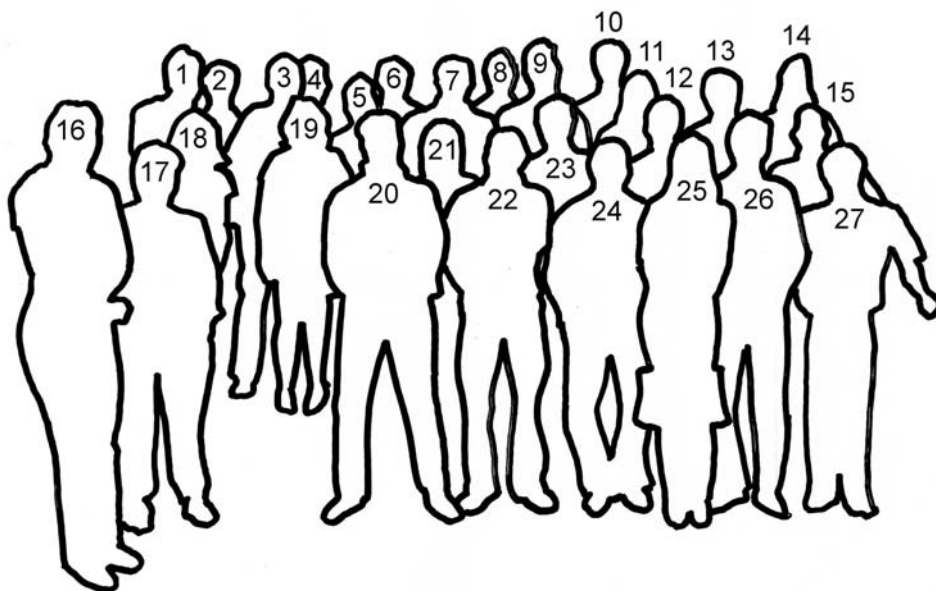
9:00 – 12:30 The FFT Methods in Geodesy
14:00 – 15:00 Exercises

Coffe breaks : 10:30–10:50 , 16:00-16:20

Lunch break : 12:30 – 14:00

Participants

Following the preliminary contacts (40 people roughly), the school started with 25 participants coming from 12 countries.



- | | |
|---------------------------|--------------------------|
| 1 – Prof. F. Sansò | 15 – Dr. M. Elayachi |
| 2 – Dr. C. Voigt | 16 – Prof. R. Forsberg |
| 3 – Dr. B. Koler | 17 – Prof. N. Pavlis |
| 4 – Dr. Ferreira V.G. | 18 – Dr. G. Sona |
| 5 – Prof. M. Sarrailh | 19 – Dr. K. Fotini |
| 6 – Prof. C.C. Tscherning | 20 – Dr. S. Melachroinos |
| 7 – Dr. M. Jones | 21 – Dr. B. Lee |
| 8 – Dr. G. Manoussakis | 22 – Dr. K. Medved |
| 9 – Dr. M. Mazzolena | 23 – Dr. A. Direnc |
| 10 – Dr. D. Ampatzidis | 24 – Dr. E. Nielsen |
| 11 – Dr. N. Cazzaniga | 25 – Dr. J. Lee |
| 12 – Dr. A. Vitti | 26 – Dr. J. Kwon |
| 13 – Dr. T. Cosso | 27 – Dr. Y. Wu |
| 14 – Dr. B. Federici | |

School sites

Morning theoretical lessons : 9-12:30 Palazzo Natta - Hall Nobile + Monday afternoon, in the historical center of Como.

Afternoon computer exercise sessions were held in the center site of Via Castelnuovo 7 - Room 3.4.

The computer room is provided with 40 new computers working with O.S. WinXP S.P.3, on which Fortran compilers and Python interface have been installed to use Fortran programs usually run under Unix systems.

Distributed components

Students have been given Lecture Notes, with some upgrading as addendum, IGeS CD with sw and data for exercises, the GRAVSOFTE manual, and users guide for FFT exercises.

Moreover a final CD has been given with all the lectures presented during the week.

Each student received a participation certificate.

Feedback questionnaire

A questionnaire (taken from the Brasil School edition) has been filled up by all the students, in anonymous form.

Synthesis of answers are as follows (mark range from 1-very poor, to 5-very good) :

Overall School evaluation

mark	#
5	11

- Length of the school

mark	#
5	10
4	8
3	2
2	1

- Scientific level

mark	#
5	20
4	1

- Quality of Lecture Notes

mark	#
5	9
4	10
3	1

- Quality of Teachers/lectures

mark	#
5	16
4	5

- Quality of computer exercises

mark	#
5	3
4	12
3	6

....

Most of the added comments were positive remarks, with some request or suggestion for the next editions:

- to distribute in advance (via e-mail, or through the website) notes, lectures, exercise guides, to allow people to be prepared
- to give more time for practical exercises, that should be more explained.
- to increase the preliminary communications, both on the detailed program and on participants to give better possibilities of organize and get in touch with other students

There is also a request of an ‘Advanced Geoid School’ , and one request of expanding the school over two weeks, because it is too concentrated.

Photos !







List of participants

Family name	Name	Nationality	Mail
Ampatzidis	Dimitrios	Thessaloniki (Greece)	dimitrios_ampatzidis@yahoo.gr
Cazzaniga	Noemi	Milano (Italy)	noemi.cazzaniga@polimi.it
Direnc	Ahmet	Ankara (Turkey)	ahmet.direnc@hgk.mil.tr
Elayachi	Moha	Rabat (Morocco)	moha.elayachi@gmail.com
Federici	Bianca	Genova (Italy)	bianca.federici@unige.it
Ferreira	Vagner Gonçalves	Parana' (Brasile)	vgf@ufpr.br
Hájková	Jitka	Czech Republic	jmachova@kma.zcu.cz
Issawy	El Sayed Abdelzim	Egypt	issawy@yahoo.com
Jones	Mark	Switzerland	mark.Jones@cern.ch
Kadlec	Martin	Czech Republic	kadlec@kma.zcu.cz
Kallianou	Fotini	Greece	fk01624@survey.ntua.gr
Kwon	Jay Hyoun	Seoul (Korea)	jkwon@uos.ac.kr
Lee	Bomi	Seoul (Korea)	bmlee@uos.ac.kr
Lee	Jisun	Seoul (Korea)	leejs@uos.ac.kr
Manoussakis	Gerassimos	Greece	gmanous@survey.ntua.gr
Mazzolena	Marco	Roma (Italy)	mmazzolena@galileianplus.it
Melachroinos	Stavros	Toulouse (France)	stavros.melachroinos@cnes.fr
Nielsen	Emil	Copenhagen (Denmark)	jemni@space.dtu.dk
Vitti	Alfonso	Trento (Italy)	alfonso.vitti@ing.unitn.it
Voigt	Christian	Hannover (Germany)	voigt@mbox.ife.uni-hannover.de
Wu	Yunlong	Denmark	yunlongwu@gmail.com
Mevdev	Klemen	Ljubljana (Slovenia)	klemen.medved@gov.si
Koler	Božo	Ljubljana (Slovenia)	Bozo.koler@fgg.uni-lj.si