



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



EEGECS WORKING GROUP 1: THE FIRST FIVE YEARS OF THE WORKING GROUP ON UNDERGRADUATE EDUCATION...

José Jesús Reyes Nuñez
Eotvos Loránd University,
Hungary



Rosa M. Chueca Castedo
Universidad Politécnica de Madrid,
Spain



EEGECS objectives

- Improve quality in education.
- Enhance its European dimension.
- Increase mobility and improve transparency and credit recognition:
 - ✓ Diploma Supplement
 - ✓ Recognition for teachers
- Foster co-operation, dialogue, exchange of information and experience between Institutions and other sectors of society.
- Introduce and extend among all the European universities an e-learning system.

.../...



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



EEGECS objectives

- Adopt a system of easily readable and comparable degrees (ECTS).
- Move towards the adoption of a two-tier degree and the establishment of a single quality accreditation system and unified criteria for quality assurance.
- Promote a knowledge-based society (lifelong learning, ICT in learning and teaching).
- Increase the attractiveness of European Area of Higher Education in Geodesy, Cartography and Surveying.
- Move towards the adoption of a common frame of reference for degrees



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



EEGECS working groups

- **WG-1 Undergraduate Education.**
- **WG-2 Research.**
- **WG-3 Continuous education, E-learning and European Dimension of Studies.**
- **WG-4 Enterprises – Private Sector.**
- **WG-5 Mobility, Languages, Culture, Citizenship, Social Cohesion...**
- **WG-6 Quality Assurance.**



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



Working Groups activities

- They have developed their activities with support of questionnaires, surveys, consultancies, searching in internet or other sources.
- They have organized forums and workshops to analyze information and come up with results



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



WORKING GROUP 1: UNDERGRADUATE EDUCATION

Objectives

- ❖ Develop the state-of-the-art of the discipline in Europe and other countries: comparative analysis of the study plans in each country (within Europe, and other countries, to enhance dialogue between higher education institutions, exchange ideas and information and obtaining a general panorama)
- ❖ Adoption of the ECTS, and implementation of the Diploma Supplement, to promote transparency, and facilitate mobility and recognition of study periods abroad
- ❖ Move towards the adoption of a 2-tier degree system
- ❖ Elaborate a core curriculum of the discipline, with a European dimension, in order to organise diversity, rather than eliminate it.



WORKING GROUP 1: UNDERGRADUATE EDUCATION

Number of members: 39
(20 countries)

Members:

- | | | |
|---------------------------|-----------------------------|------------------------|
| ▣ Francisco García García | ▣ Israel Quintanilla García | ▣ Jean-Paul Donnay |
| ▣ Alain de Wulf | ▣ Jean-Jacques Derwael | ▣ Erik Stubkjær |
| ▣ Mathias Neumann-Redlin | ▣ Kostas Katsambalos | ▣ Luís Camarero Estela |
| ▣ Rosa Chueca | ▣ Norbert Bartelme | ▣ Sabine Prem |
| ▣ Stig-Göran Mårtensson | ▣ Huaan Fan | ▣ Mark Breach |
| ▣ Inge Revhaug | ▣ Borislav Marinov | ▣ Miloslav Svec |
| ▣ Vlatismil Hanzl | ▣ Lenka Ritickova | ▣ Tonu Oja |
| ▣ Janis Strauhmanis | ▣ Ceslovas Aksamitauskas | ▣ Jesús Reyes Núñez |
| ▣ Stanislaw Bialousz | ▣ Constantin Cosarca | ▣ Johan Neuner |
| ▣ Ales Breznikar | ▣ Alojz Kopacik | ▣ Amparo Núñez Andrés |
| ▣ José Lanaja | ▣ Moisés Martín Betancor | ▣ Frank Friesecke |
| ▣ Henrique Oliveira | ▣ Wilhem Zeddies | ▣ Caren Femenia Ribera |
| ▣ Michaela Korbasova | ▣ María J. Iniesto Alba | ▣ Emilie Leroy |



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



European Education in Geodetic Engineering, Cartography and Surveying (EEGECS) Socrates Thematic Network



Working Group 1 "Undergraduate Education"

[Final Report 2nd year of activities](#)

[Reports from European countries](#)

[Reports from countries out of Europe](#)

[Answers sent by European universities to the questionnaire \(table\)](#)

[Photos taken during the 3rd General Assembly in Dublin \(April 22-23, 2005\)](#)

[Photos taken during the 2nd Meeting in Antwerpen \(September 10-11, 2004\)](#)

[Photos taken during the 2nd General Assembly in Valencia \(February 20-21, 2004\)](#)

[Photos taken during the 1st WG1 Meeting in Budapest \(December 4-5, 2003\)](#)

Homepage of WG1:

[http://lazarus.elte.hu/gb/dolgozo/
jesus/eegecs/wg1.htm](http://lazarus.elte.hu/gb/dolgozo/jesus/eegecs/wg1.htm)

Accessible from January, 2003



European Education in Geodetic Engineering, Cartography and Surveying

General Info Members Working Groups Documents Contact

Dissemination Activities
Publications
EEGECS Events
Others Events / News
Join Us

Chat
TechnoTN
ANECA
Tuning
elearningeuropa.info
An initiative of the European Commission

Out of EU Answer Questionnaires Received:
Questionnaires Received

Third Year:
Institutions Questionnaire English
Institutions Questionnaire Spanish.doc

Interactive Questionnaires:
European Interactive Questionnaire
International Interactive English Questionnaire
International Interactive Spanish Questionnaire

Interactive Questionnaires:
European Interactive Questionnaire
International Interactive English Questionnaire
International Interactive Spanish Questionnaire

Second General Assembly Photos.

Members:

Francisco García García	Israel Quintanilla García	J...
Alain de Wulf	Jean-Jacques Derwael	E...
Mathias Neumann-Redlin	Kostas Katsambalos	L...
Rosa Chueca	Norbert Bartelme	S...
Stig-Göran Mårtensson	Huaan Fan	M...
Inge Revhaug	Borislav Marinov	M...
Vlatismil Hanzl	Lenka Ritickova	T...
Janis Strauhmanis	Ceslovas Aksamitauskas	J...
Stanislaw Bialousz	Constantin Cosarca	J...
Ales Breznikar	Alojz Kopacik	A...
José Lanaja	Moisés Martín Betancor	F...
Henrique Oliveira	Wilhem Zeddies	C...
Michaela Korbasova	María J. Iniesto Alba	E...

Web Site: <http://lazarus.elte.hu/gb/dolgozo/jesus/eegecs/wg1.htm>

BACK

© UFV - EESIGCT 2007 by M...
Last Modified 19/0...

European Education in Geodetic Engineering, Cartography and Surveying

General Info Members Working Groups Documents Contact Us

Education and Culture

EEGECS thematic network

Home Working Groups WG1 2:47:49 pm

Working Group 1

Objectives : UNDERGRADUATE EDUCATION: Enhance dialogue between higher education institutions, promote the adoption of ECTS and elaborate a core curriculum of the discipline.

Chairman : Rosa Chueca : r.chueca@euitto.upm.es

Questionnaire:
Questionnaire (in english)
Questionnaire for the European universities. February 2003.

Reports:

First Year:
WG1 Report - Year 1
Spain Report Norway Report
Hungary Report Germany Report
Czech Reports

Second Year:
WG1 Final Report - Year 2
Transnational Cooperation Projects Final Report

European National Reports:
Austria Report Belgium Report Bulgaria Report
Finland Report France Report Ireland Report
Italy Report Lithuania Report Portugal Report

Actual homepage of WG1 within the EEGECS website



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



SURVEY ON EDUCATION IN GEODETIC ENGINEERING, CARTOGRAPHY AND SURVEYING:

SITUATION IN EUROPE

2003–2004

- **Questionnaire made between December of 2002 and March of 2003**
- **Sent for all the institutions members of EEGECS, asking them to forward it for other institutions in their countries and/or other european countries.**



DOCUMENTS	DATE
Partial results of the European Survey: table + diagrams (November 30, 2003)	December 10, 2003
First proposal for questionnaire to send for institutions in other continents	December 10, 2003
List of international associations that our Working Group can contact	December 10, 2003
Tuning Project: Closing Conference	December 10, 2003
Proposed structure of the national reports	May 23, 2003
Final version of the questionnaire for European universities	February 14, 2003
Actualized list of members	January 20, 2003
Table of scheduled activities	January 6, 2003
Objectives of the Working Group 1	January 6, 2003
Background information about the Tuning Project	January 6, 2003

ARCHIVES

USEFUL LINKS

- "Enhancing Professional Competence of Geodetic Surveyors in Europe" Edited by Stig Enemark and Paddy Prendergast. CLGE-FDG, 2000.
- Allan Report (1995)
- FIG Commission 2: "Professional Education"
- Tuning Educational Structures in Europe
- Information about the European Credit Transfer System
- Information about the Diploma Supplement

To contact us or request any information please send a message to this address:
jesus@udens.elle.lu

Questionnaire WG1 - Microsoft Internet Explorer

Address: <http://www.top.upv.es/eegecs/wg1/question1gr.asp>

Home Working Groups WG1

Questionnaire: for private and public employers of graduates in Geodetic Engineering, Cartography and Surveying (GECS)

Institution - General Information

1. Country:

2. Name of the Higher Education Institution:

Faculty:

3. Department Unit:

4. Name of the program:

5. Name of the degree:

6. List of specialisations within this program:

7. If the institution has not established a 2-tier degree (3 years Bachelor and 2 years Master) system, please answer the next question: Is there any schedule to establish 2-tier degree system in the near future? Yes No

9. Duration of the programme: duration of semesters

10. Is there any requirement to enter the study programme? Yes No

If yes, please indicate shortly these requirements:

- First version of the questionnaire



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
 INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
 FIG-SYMPOSIA COM.2&3

Working Group 1
 Undergraduate Education



<p>9. Duration of the programme :</p> <p>If you selected "others", please specify which:</p>	<p><input type="radio"/> SEMESTERS (click the correct one)</p> <p><input type="text"/></p>
<p>10. Is there any requirement to enter the study programme?</p> <p>If yes, please indicate shortly these requirements:</p>	<p><input type="radio"/> YES (click the correct one)</p> <p><input type="text"/></p>
<p>11. Has your institution adopted (or is your institution planning to adopt) a Diploma Supplement?</p> <p>If YES please attach a sample document to the questionnaire</p>	<p><input type="radio"/> YES (click the correct one)</p> <p><input type="radio"/> I attach it (click the correct one)</p>
<p>12. If the curriculum is available on the Web, please specify the address of the site.</p> <p>If the information is available in other format (for example .doc), please attach it to this survey.</p>	<p><input type="radio"/> It is in the following one: (click the correct one)</p> <p><input type="radio"/> http:// <input type="text"/></p>

Please, answer the next questions if the required information is not included in the homepage or document asked in the previous question:

<p>13. Is the programme offering courses (or subjects) taught in other language(s)?</p> <p>If yes, please indicate which courses and in which language(s):</p>	<p><input type="text"/></p>
<p>14. Are compulsory practical trainings (provided by external institutions) included in the programme?</p> <p>If yes, specify the duration and at which stage (when)</p>	<p><input type="radio"/> YES (click the correct one)</p> <p><input type="text"/></p>

The questionnaire was divided in two main parts: the first one asked about general and structural characteristics of the degrees (ECTS, Diploma Supplement, degree system, practical trainings, etc) and the second one contained tables asking about the different groups of subjects taught in the different institutions.

Questionnaire for European institutions (2003–2004)



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



Questionnaire for European institutions (2003–2004)

- The questionnaire was divided in two main parts: the first one asked about general and structural characteristics of the degrees (ECTS, Diploma Supplement, degree system, practical trainings, etc)
- The second one contained tables asking about the different groups of subjects taught in the different institutions.





CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



SURVEY ON EDUCATION IN GEODETIC ENGINEERING, CARTOGRAPHY AND SURVEYING

Sent answers:

-17 countries

-44 institutions

(33 EEGECS members)

-52 programs

- Germany: 10 institutions

- Spain: 9 institutions

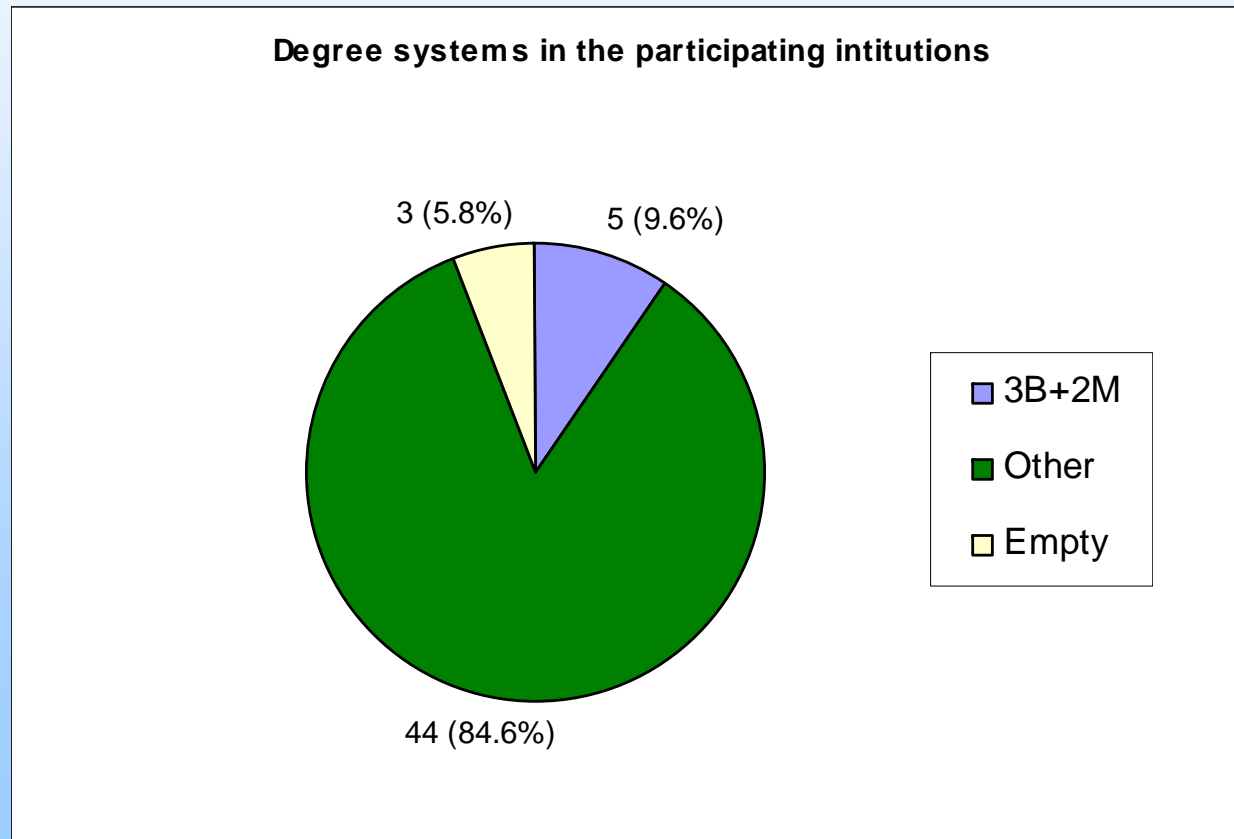
- United Kingdom: 5 institutions





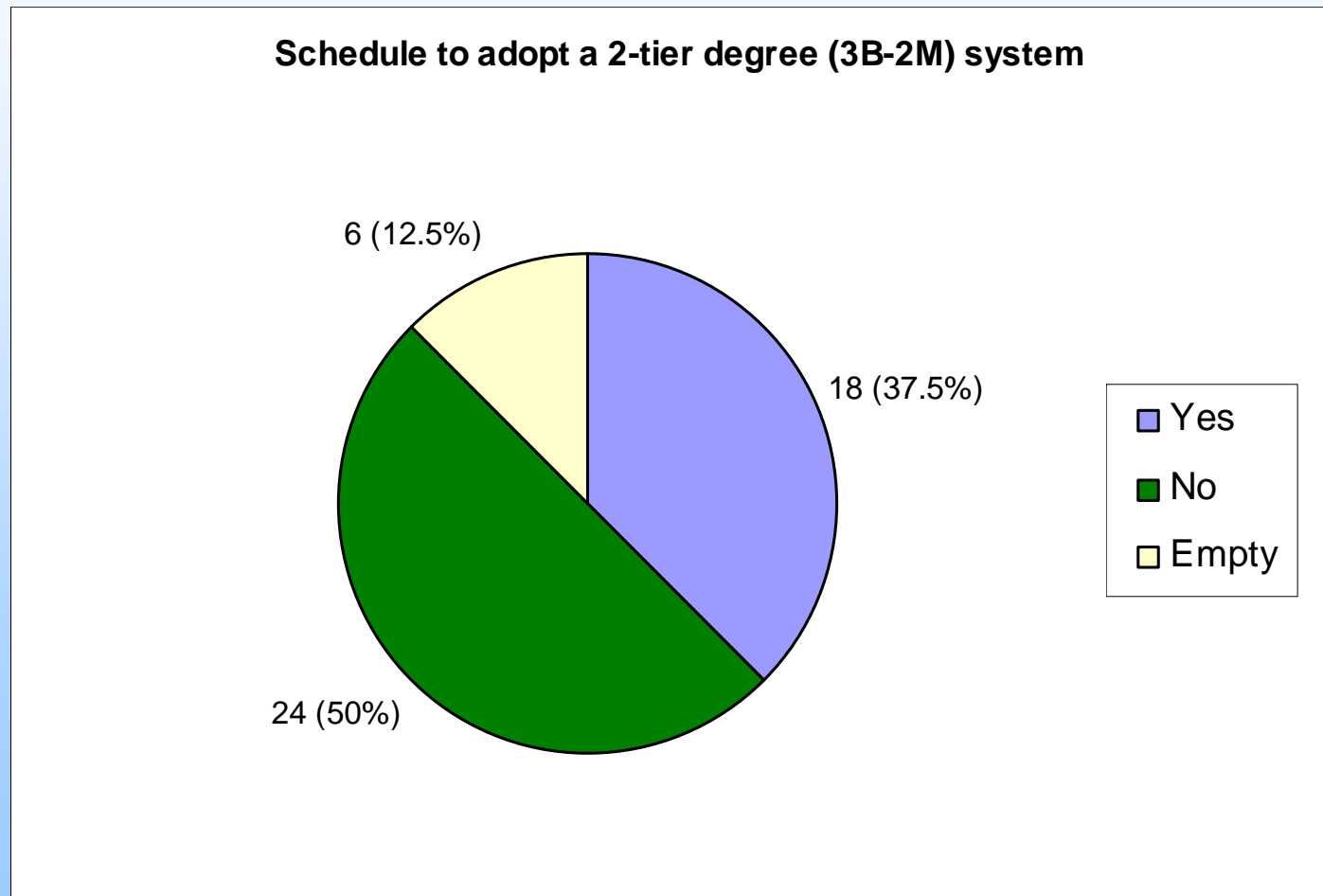
EUROPE REPORT: SOME RESULTS BASED ON ANSWERS TO THE SURVEY

Types of degree systems by institutions (2003–2004)



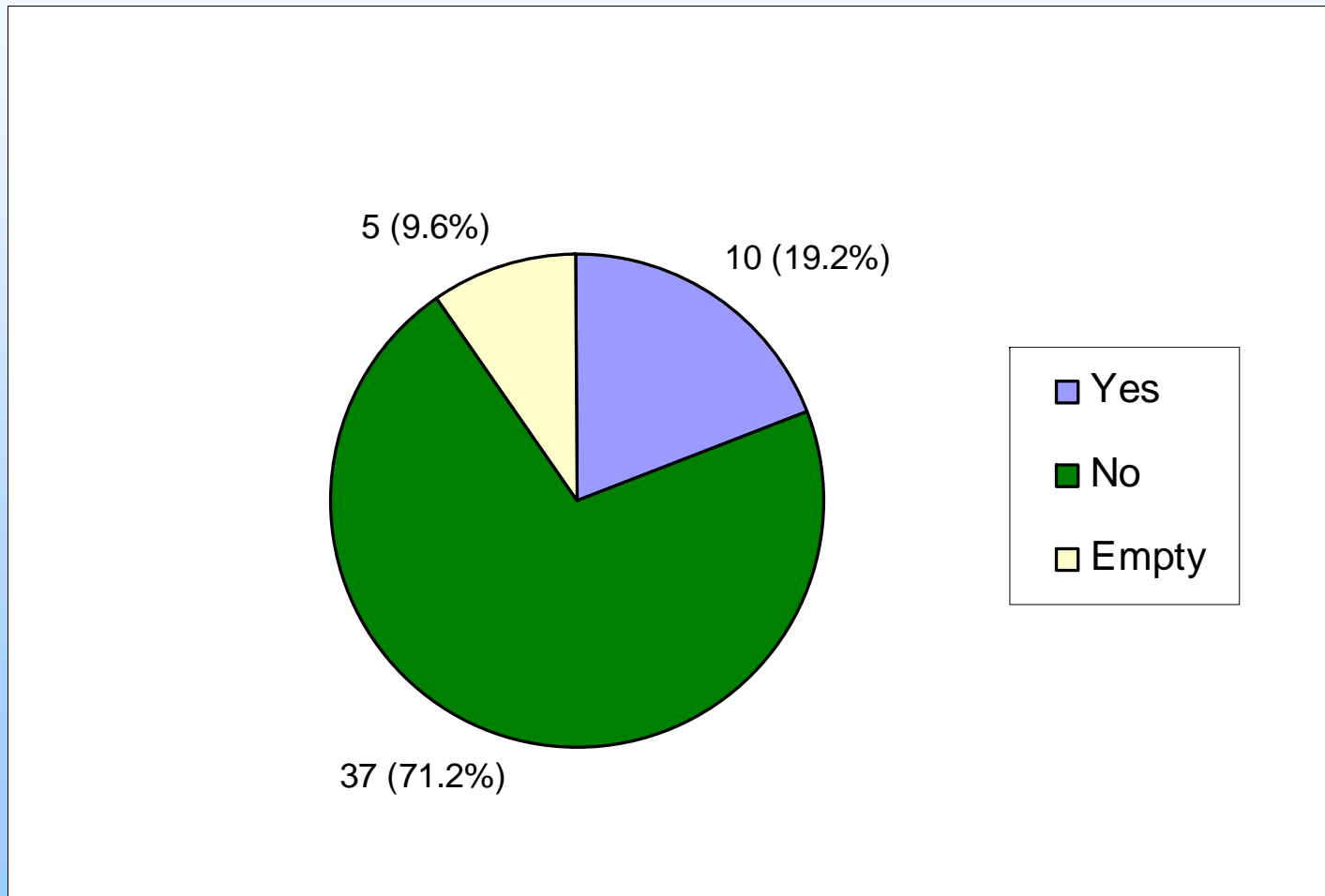


Adoption of a 2-tier degree (3B-2M) system (2003–2004)



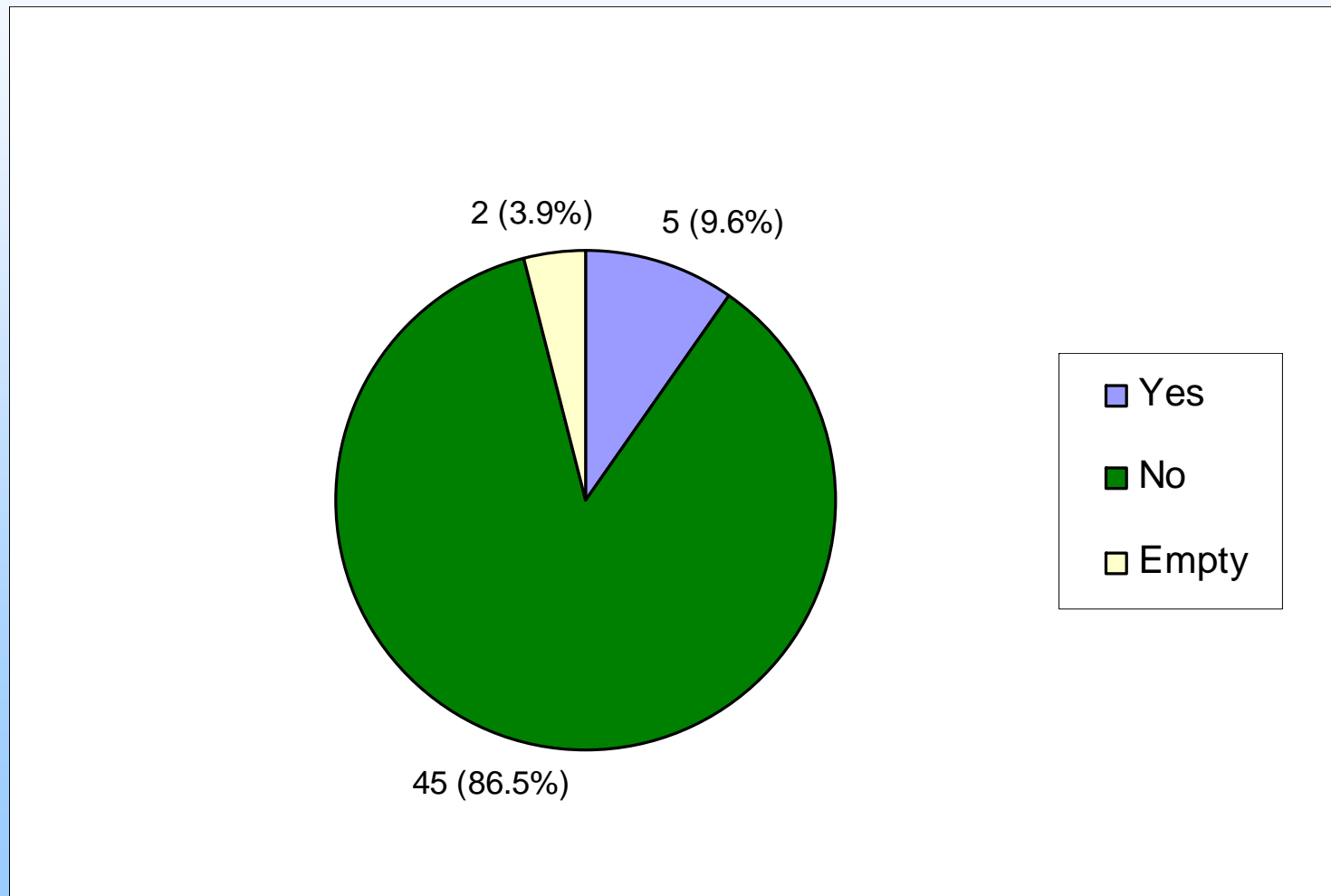


Adoption of Diploma Supplement (2003–2004)



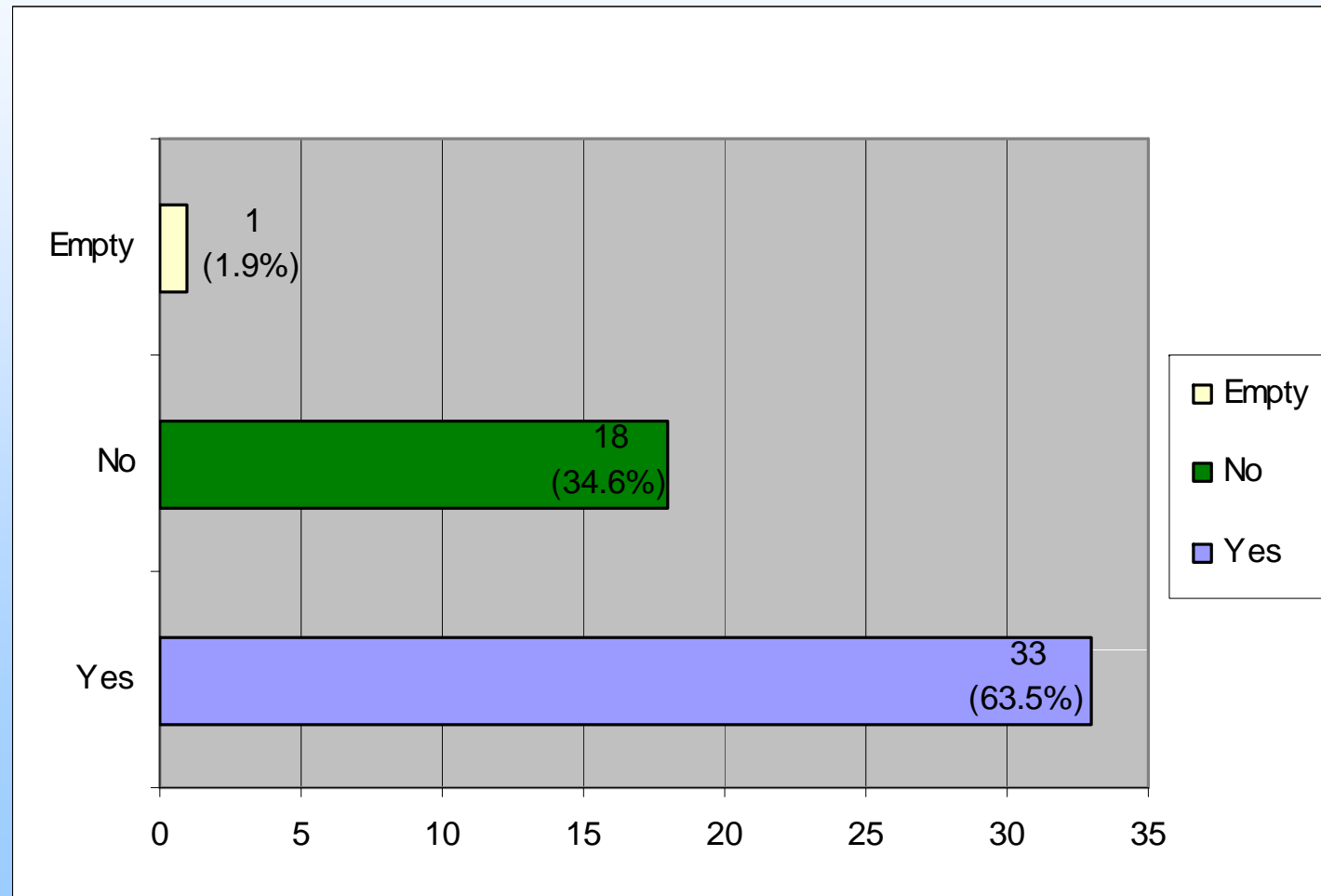


Systematic offer of courses in other languages (2003–2004)





Adoption of ECTS (2003–2004)





CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



NATIONAL REPORTS ON HIGHER EDUCATION IN GEODETIC ENGINEERING, CARTOGRAPHY AND SURVEYING

The main objectives of these reports were:

- Graphical and brief presentation of the study plans described in the questionnaire
- Complementary information that have not been included in the questionnaire
- Brief presentation of institutions that did not participate in the survey

20 national reports from European countries (Austria, Belgium, Bulgaria, Czech Republic, Finland, France, Germany, Hungary, Ireland, Italy, Lithuania, Norway, Portugal, Romania, Slovakia, Slovenia, Spain, United Kingdom and Turkey)



<p>7. List the specializations within this programme:</p>	<p>Specialization 1: <input type="text"/></p> <p>Specialization 2: <input type="text"/></p> <p>Specialization 3: <input type="text"/></p> <p>Specialization 4: <input type="text"/></p>
--	---

<p>8. Which is the type of degree system of your institution (for example: 3 years Bachelor and 2 years Master)?</p>	<input type="text"/>
---	----------------------

<p>9. Duration of the programme :</p> <p>If you selected "others", please specify which:</p>	<input type="text"/> SEMESTERS <small>(click the correct one)</small> <input type="text"/>
---	---

<p>10. Is there any requirement to enter the study programme?</p> <p>If yes, please indicate shortly these requirements:</p>	<p>YES <small>(click the correct one)</small></p> <input type="text"/>
---	--

European universities are working to adopt the Diploma Supplement. This is a document to be attached to a higher education diploma aiming at improving international 'transparency' and at facilitating the academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended.

<p>11. Have your institution adopted (or is your institution planning to adopt) a document similar to this Diploma Supplement?</p> <p>If your institution have adopted it, please attach a sample document to this questionnaire.</p>	<p>YES <small>(click the correct one)</small></p> <p>I attach it <small>(click the correct one)</small></p>
--	---

SURVEY FOR HIGHER EDUCATION INSTITUTIONS IN OTHER CONTINENTS (2004–2005)

Information about the degrees related to our specializations all over the world

Questionnaire similar to the European one, but at same time inquiring for information not provided by other international reports (e.g. FIG-CLG)

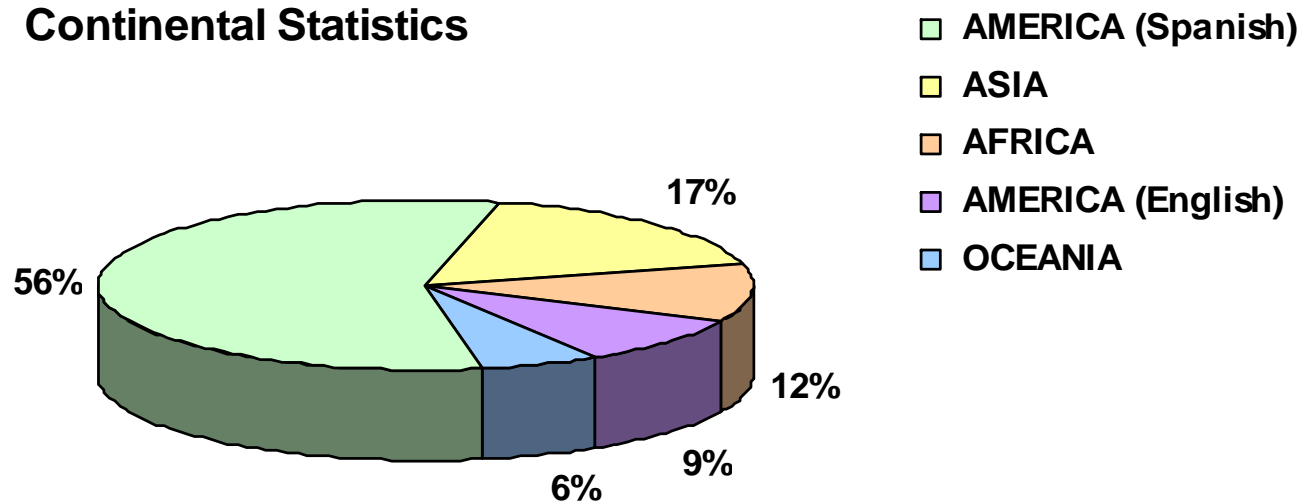


SURVEY FOR HIGHER EDUCATION INSTITUTIONS IN OTHER CONTINENTS (2004–2005)

This Questionnaire was sent to international institutions from all around the world and in spite of the poor number of answer checked, the international reports of each country were made.

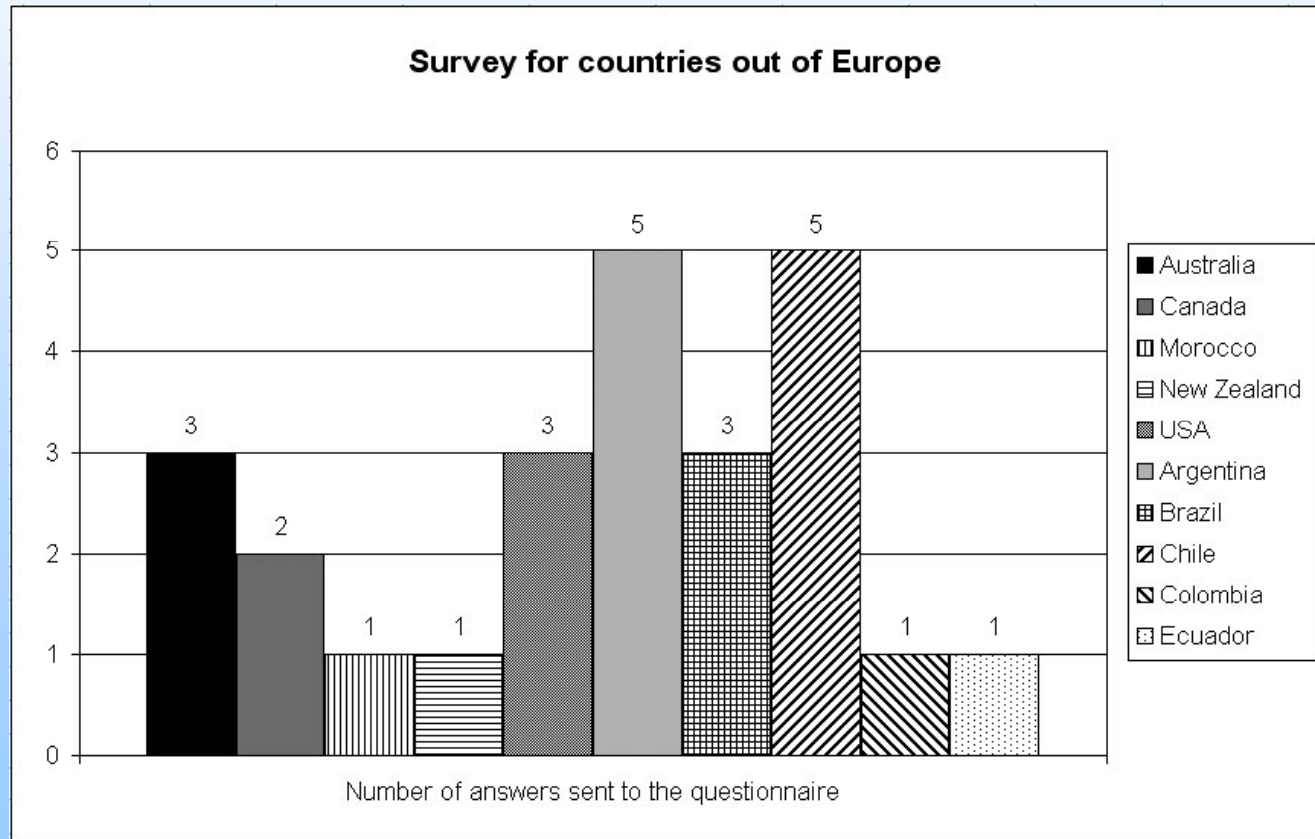
The graphic is a statistic of contacts and countries that received the questionnaire:

Continental Statistics





SURVEY FOR HIGHER EDUCATION INSTITUTIONS IN OTHER CONTINENTS (2004–2005)



20 answers from
countries out of
Europe:
Argentina, Brazil,
Chile, Colombia,
Costa Rica,
Ecuador,
Morocco,
Canada, U.S.A.,
Australia and
New Zealand



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



SURVEY FOR HIGHER EDUCATION INSTITUTIONS IN OTHER CONTINENTS (2004–2005)

Argentina

Brasil

Chile

Colombia

Costa Rica

Ecuador

Moroco

Canada

USA

Australia

New

Zealand



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



Survey on working groups (2005-06)

The questionnaire (Institutions Questionnaire English) made for this task, linked to a database, was translated to Spanish for South American people (Institutions Questionnaire Spanish).

Questions about:

- General features
- Field of work
- Activities
- Seminars
- Congresses
- Meetings
- Specialization or Non official degrees
- Relevant stage of groups of subjects for a future curriculum



Survey on working groups (2005-06)

- AUSTRIA
- BELGIUM
- BULGARIA
- CZECH
- DENMARK
- FINLAND
- FRANCE
- GERMANY
- GREECE
- HUNGARY
- IRELAND
- ITALY
- LITHUANIA
- LUXEMBOURG
- NETHERLANDS
- NORWAY
- POLAND
- PORTUGAL
- ROMANIA
- SLOVAKIA
- SLOVENIA
- SPAIN
- SWEDEN
- TURKEY
- U. K.



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



WG1 MEETINGS



**1st meeting: Budapest
(Hungary) December 4-5,
2003**



**2nd meeting: Antwerpen
(Belgium) September 10-11,
2004**

Active participation in all the General Assemblies organized within EEGECS (Valencia 2003 and 2004, Dublin 2005 and Gent 2007) and in others meetings or congresses as [ASITA](#) (Catania 2005), Technoforum TN (Brussels, 2005, 2006, 2007), enice'07 (Madrid, 2007), etc.



*“European Education in Geodesy,
Cartography & Surveying
Historical development of the Faculties & Titles”*

Prof. Rosa Chueca Castedo
Polytechnic University of Madrid

Rosa Mariana Chueca Castedo
Chairman of WG1, EEGECS

Higher School of Surveying, Geodesy and
Cartography Engineers

Alberto Fernández Wyttenbach
Technical Assistant WG1, EEGECS

Polytechnic University of Madrid

European Education in Geodesy, Cartography & Surveying
Historical development of the Faculties & Titles

Summary

- **Intro Europe history**
- **The Italian Tradition**
- **European Situation: Introduction**
- **University & Faculty: Types**
- **University & Faculty: Evolution**
- **Bachelor & Master in Europe**
- **Bachelor: Names & Duration**
- **Bachelor Fields**
- **Master Programs in Europe**
- **Master: Names & Duration**
- **Master Fields**
- **Conclusions**

European Study

Search Criteria:

- Only the information provided by the NET was considered
- European Countries and EU countries that include some Undergraduate or Postgraduate programme from the groups of subjects related with the EEGECS Thematic Net:
 - Geomatics
 - Surveying
 - Hydrographics
 - Mining Surveying
 - Land Management & Planning
 - Geodesy
 - Positioning and Navigation
 - Photogrammetry & Remote Sensing
 - Cartography
 - GIS
 - Cadastre & Real Estate...



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
 INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
 FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



EUROPEAN EDUCATION IN GEODETIC ENGINEERING CARTOGRAPHY AND SURVEYING



Austria



Belgium



Bulgaria



Czech Republic



Denmark



Estonia



Finland



France



Germany



Greece



Hungary



Iceland



Ireland

AIMS OF THE NETWORK

To reach a collaboration and co-operation system among Higher Education and Research Institutions offering in Geomatics, and to establish links with enterprises and professional entities

EEGECS COMPOSITION

114 European Universities from 27 European countries, 20 world wide universities

Members

- Deans, teachers and researchers
- Students
- Administrative staff
- Interlocutors of private and public sectors
- Education policy makers

OBJECTIVES CLASSIFIED BY WORKING GROUPS

- WG-1 Undergraduate Education
- WG-2 Research
- WG-3 Continuous education, e-learning and European dimension of studies
- WG-4 Enterprises – Private Sector
- WG-5 Mobility, languages, culture, citizenship, social cohesion ...
- WG-6 Quality Assurance



Latvia



Italy



Lithuania



Netherlands



Norway



Poland



Portugal



Romania



Slovakia



Slovenia



Spain



Sweden



Turkey



United Kingdom

2007-08 Dissemination period

Visit our website:
<http://www.top.upv.es/eegecs>

Also: <http://en.wikipedia.org/wiki/EEGECS>



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

Working Group 1
Undergraduate Education



THE FUTURE OF WORKING GROUP 1

- Organization of a new survey → changes made in European Higher Education during the last three years (comparison of actual situation with the state-of-the-art in our fields in 2003-2004)
- Reading the original objectives proposed in 2002, the Working Group did not accomplish only one: *Elaborate a core curriculum of the discipline, with a European dimension, in order to organise diversity, rather than eliminate it.*

Question: Is the elaboration of a general core curriculum the only one solution *to organise diversity* in our degrees, *rather than eliminate it?*

Compatibility between study plans: creation of a document (e.g. recommendations) on the frame of different groups of themes that at present are organized by subjects in the respective core curricula of European institutions. These recommendations are oriented to give information about the themes that should be taught within a specialization (the term subject is intentionally not used, because the same theme can be taught in subjects with different names).



CONGRESO INTERNACIONAL DE
INGENIERÍA GEOMÁTICA Y TOPOGRÁFICA
INTERNATIONAL CONGRESS ON GEOMATIC & SURVEYING ENGINEERING
IX CONGRESO NACIONAL TOP-CART VALENCIA 2008
FIG-SYMPOSIA COM.2&3

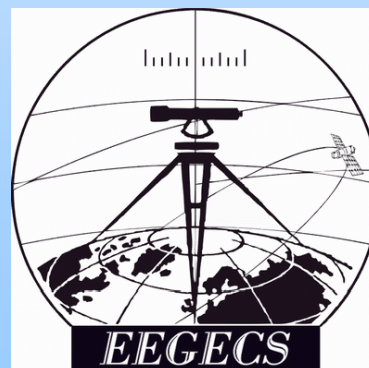
Working Group 1
Undergraduate Education



THANK YOU

MUCHAS GRACIAS

José Jesús Reyes Nuñez
Eotvos Loránd University,
Hungary



Rosa M. Chueca Castedo
Universidad Politécnica de Madrid,
Spain