

# Future Perspectives Commission 2

Workplan: 2006-2010

Bela Markus



# Commission 2

## 2002 - 2006

Pedro Caverro  
Bela Markus



# Commission 2 deals with activities concerning

- Learning and teaching methods
- Contents
- Continuing professional development
- The interaction between education, research and practice



# The mission statement includes

- **Methods and content of education:** To develop and promote learning and teaching methods and content of curricula with special emphasis on university level, high technology - based education.
- **Interaction between academia and practice:** To stimulate interaction between university education, research and practice so as continuously to develop educational curricula and enable surveyors to put into practice the results of research and development.
- **Academic and professional profiles:** Through the promotion of continuing professional development (CPD) and the practical application of research, help surveyors continuously to update their academic and professional profiles.
- **Accessible knowledge:** To approach surveying education to countries and people with difficulties to access to usual learning methods by new technology (Virtual Academy).
- **Educational links:** To establish all over the world, but mainly in the third one, liaison groups to facilitate educational joint works, projects, etc.
- **Cooperation:** Education of surveyors is not only a duty of FIG or Commission 2; strong links of collaboration must be established with the sister organizations and our own Commissions.



# Working Group 2.1 – Virtual Academy

## Policy issues

- The movement from discrete computer assisted learning (CAL) tools towards an integrated virtual learning environment.
- Technical, political, legal, organisational and cultural problems.
- Copyright and accreditational problems
- The role of the lecturer and human communication in general.

## Chair

- Prof. Esben Munk Sørensen (Denmark), e-mail: [ems@i4.auc.dk](mailto:ems@i4.auc.dk)



# Working Group 2.2

## The Studies of Surveying in Latin America

### Policy issues

- To have a good knowledge of the educational situation in this continent
- To create an Educational Thematic Network which could help
- To establish strong links among academic institutions in Latin America
- To facilitate the free flow and exchange of ideas, projects and people among the institutions
- To facilitate the harmonization of curricula
- To facilitate a "common educational base"
- To facilitate mobility among professionals, teaching staff and students
- To improve the conditions of professionals, when and where it is necessary, and increase the work possibilities of the graduates

### Chair

- Prof. Graciela Loyácono, School of Surveying, Universidad Nacional de Córdoba (Argentina); e-mail: [loyaconog@infovia.com.ar](mailto:loyaconog@infovia.com.ar)

*The results of this first step will be given in the regional meeting to be held in Latin America in 2005*



# Working Group 2.3 – Mutual Recognition

## Policy issues

In the light of the achievements of the Task Force on Mutual Recognition of Professional Qualifications (1998–2002), and in order to support the principle of the free movement of surveyors world-wide, the primary aim of the Working Group is: *To improve the knowledge and available information about relevant aspects of professional education in order to implement the process of mutual recognition of professional qualifications, with the aim of developing guidelines for implementing FIG policy in this area.*

## Chair

- Dr. Frances Plimmer (United Kingdom), e-mail: [fplimmer@hotmail.com](mailto:fplimmer@hotmail.com)



# Working Group 2.4 – Knowledge in SIM

A Joint Working Group with Commission 3

## Policy issues

- To integrate the resources of the Commissions 2&3 using the experiences of professionals in knowledge transfer and the know-how of spatial information management (SIM)
- To analyse present status and trends of Information/Knowledge Management
- To outline the implementation of the results of Information/Knowledge Management in the Spatial World
- To define the necessary elements and routes of professional development in the rapidly changing area of SIM

## Chair

- Prof. Bela Markus (Hungary), e-mail: [mb@geo.info.hu](mailto:mb@geo.info.hu)



# WG 2.5 – Capacity building in Land Management

A Joint Working Group with Commission 7

## Policy issues

- To study and develop integration of professional and land management projects, especially in developing and transition countries.

## Chair

- Prof. Ulf Jensen (Sweden), e-mail: [ulf.jensen@lantm.lth.se](mailto:ulf.jensen@lantm.lth.se)



# Working Group 4.4 – Education and CPD

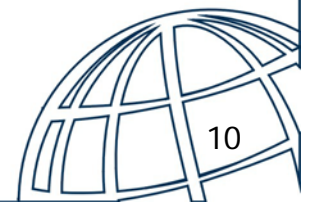
A Joint Working Group with Commission 4

## Policy issues

- Hydrographic education & CPD

## Chair

- Adam Greenland (United Kingdom), e-mail: [adam.greenland@pola.co.uk](mailto:adam.greenland@pola.co.uk)



# Working Group 9.1 – Education of Valuers

A Joint Working Group with Commission 9

## Policy Issues

- Address disparity and deficiencies in educational programs and/or training of valuers in FIG member organizations.
- Education on valuation through information network in FIG (an integrated virtual learning environment). Let education move, not people.
- Educational ladder. A stepped way of advancing be planned for improving the knowledge of valuation.
- An educational package of valuation be created and offered on the homepage of FIG and intentionally, targeted to the developing countries and those economies under transition.
- Generate co-operation in education and create a network for supporting the contact persons.

## Chair

- Prof Kauko Viitanen (Finland), e-mail: [kauko.viitanen@hut.fi](mailto:kauko.viitanen@hut.fi)





# FIG Surveying Education Database

[ [FIG Home](#) | [SEDB Home](#) | [Queries](#) | [FIG Academic Membership](#) | [Discussion Groups](#) | [Authoring](#) ]



## Welcome to FIG Surveying Education Database

The Surveying Education Database (SEDB) was established by FIG [Commission 2](#) on Professional Education. The database is the result of merging data from two different surveys conducted by respectively FIG and CASLE. The database has been changed to the FIG web site in February 2000. The update is now taken care by the FIG office in Copenhagen.

The validity of the data is the responsibility of the individual educational institutions. Any omissions or errors should be reported to the FIG office. All universities and institutions on the current database have received or will receive a user ID and a password from the [FIG office](#). If your institution is included in the database and you have not yet received your password, please contact the [FIG office](#). With the password institution is able to make changes directly to the database. For further details, please see the pages about [authoring](#) or consult the FIG office.

**JOIN SEDB**

**UPDATE YOUR INFORMATION**

**SEND FEEDBACK**

Any academic department offering graduate and post-graduate courses in any surveying discipline can place a standard entry on the SEDB which currently contains information on more than 250 institutes and 450 surveying courses in more than 70 countries. Departments are responsible for up-dating the information which they place on the SEDB. Countries and institutions that are not yet included in the database are encouraged to provide the relevant data. Detailed information can be found under [Join SEDB](#).

The Surveying Education Database is a major benefit for being an [Academic Member of FIG](#). Academic Members of FIG can add a picture and additional information to their

# FIG Academic Membership

## Overview

In 1998 **FIG** launched a new category of membership for organisations, institutions or agencies which promote education or research in one or more of the surveying disciplines.

A particular feature of this initiative is that it will link universities or their faculties or departments that are responsible for surveying education with practicing surveyors in more than 100 countries and with companies which provide commercial services in support of the surveying profession.

The International Federation of Surveyors (**FIG**) is an international, UN-recognised non-government organisation (NGO) whose purpose is to support international collaboration for the progress of surveying in all fields and applications. It is a federation of national associations and is the only international body that represents all surveying disciplines.

In 2006 there are more than 80 **academic members** from more than 50 countries and the membership is increasing constantly.

The other **membership categories** are

- **member associations** – leading professional societies representing one or more of the surveying disciplines in their respective countries;
- **affiliates** – groups of surveyors undertaking professional activities but not fulfilling criteria for membership as member associations; and
- **corporate members** – organisations, institutions or agencies which operate or provide commercial services in support of the surveying profession.

# IT > GI > E&T Trends

- **Analogue > Digital** doc, ppt, htm
- **Manual > Automatic** CBT
- **Local > Global** eLearning
- **Data > Information** Knowledge
- **General > Customized** CPD
- **Product > Service** Knowledge infrastructure
- **Discrete > Continuous** LLL



# Planning

- **SWOT**
- **Problem tree**
- **LFM**



# General aim

- Promoting Best Practice
- Improving knowledge infrastructure



# Specific aims

- **Curriculum Development - Managing changes**
- **Disseminate eLearning experiences – methods, content, tools etc.**
- **Marketing and Management**
  - **Networking – regional / global**
  - **Knowledge management**



# Workplan: 2006-2010

## 2006-2010

- To develop further the FIG Educational database and facilities using educational and internet standards
- To perform needs analysis of Commission 2 members and FIG Academic members
- To reinforce contacts to Educational Commissions of International Organisations on the related professions (ICA, ISPRS, IAG AGILE etc.)



# Workplan: 2006-2010

## Strategic issues

- Needs analysis
- Curriculum development
- Quality & Recognition
- Networking
  - Academic members
  - Commissions
  - ICA/ISPRS/etc
  - Companies
- Knowledge management
- Business models
- Marketing



# Workplan: 2006-2010

## Teaching & Learning issues

- **eLearning**
  - **Methods**
  - **Web services**
  - **Metadatabase**
  - **Knowledge pool**
  - **CPD/LLL**
- **Networking**
  - **Joint projects**
  - **Workshops**
  - **Summer shools**



# Outcomes

- **Publications in eLearning**
  - Methods
  - Web services
  - Knowledge pool
  - Experiences in CPD/LLL
- **Educational SDI**
- **Metadatabase**
- **Global & Regional Networks**
  - Best practices
  - Workshops
  - Summer schools
  - Joint projects



# Curricula development

- Needs analysis
- Serving the needs
- Bologna changes
  - BSc / MSc / PhD / Professional masters
- Teaching methods
  - PBL
- Quality Management
  - Student feedback
  - Accreditation
- Training
  - Recognition
- Credit Transfer



## Tools

- **Innovations**
- **Portals**
- **Content development**
  - **Multimedia**
  - **CBT**
  - **Quiz**
- **Student support**
  - **Club**
  - **Library**
- **Communication**
- **Teamwork**

## Metadata



# Marketing & Management

- Perception of profession
- Market analysis
- Recruitment
- PR
  - Brochures
  - Newsletters
  - Web
- QM
  - ISO, EFQM
- Networking
- IPR
- ALUMNI



# Curricula development

- Needs analysis
  - Bologna changes
    - BSc / MSc / PhD / Professional masters
  - Teaching methods
    - PBL
  - Quality Management
    - Student feedback
    - Accreditation
  - Training
    - Recognition
  - Credit Transfer
- 
- **Workshop**
    - **Prague, April / June 2007**
    - **Ales Cepek**



# E-Learning

## Tools

- Portals
- Content development
  - Multimedia
  - CBT
  - Quiz
- Student support
  - Club
  - Library
- Communication

## Metadata

- **Espoo**
  - **2008**



# Marketing & Management

- **Marketing**
  - Brochures
  - Newsletters
  - Web
  - Recruitment
- **Management**
- **QM**
  - ISO, EFQM
- **Networking**
- **IPR**
- **ALUMNI**
- **UK**
  - **2009**

