

## **FIG Commission 2 – Professional Education Work Plan 2007-2010**

### **1. Title**

Professional education

### **2. Terms of reference**

- Curriculum development
- Learning and teaching methods and technologies
- Educational management and marketing
- Continuing professional development
- Networking in education and training

### **3. Mission Statement**

Promoting good practices:

- Endorsing universities and other educational organisations to explore the needs of society and to manage in a pro-active way the necessary changes in the “knowledge age”.
- Supporting academic institutions and industry with new methods of knowledge management, helping surveyors continuously to update their academic and professional profiles.
- Advancing educational business and curriculum tuning processes.
- Promoting content development experiences, facilitating international researches in surveying education and training and to initiate joint projects on this field (curriculum development, educational material development, joint courses, quality assurance etc.).
- Strengthening knowledge transfer between FIG Commissions, inspiring activities on knowledge networks.
- Improving dissemination of information on educational theory and practice to the members across the world.
- Reinforcing contacts to Educational Commissions of International Organisations on the related professions, including the International Cartographic Association (ICA), the International Society for Photogrammetry and Remote Sensing (ISPRS), the Association of Geographic Information Laboratories in Europe (AGILE) and the International Association of Geodesy (IAG).

### **4. General**

The Commission 2 Work Plan 2007-2010 building on the experiences of the previous period tries to fulfil and implement the FIG Council Work Plan. Commission 2 in general aims:

- To perform needs analysis of Commission representatives and FIG Academic members
- To develop further the FIG Surveying Education Database and facilities using educational and internet standards
- To organize annual workshops on actual topics related to education and training

- To investigate the use of information and communication technology to support networked professional education
- To organise, jointly with other Commissions, Regional Summer Schools for solving problems, filling educational gaps and for building communities within young professionals.

The mission and aims will be realized by the following Working Groups:

#### Working Group 2.1 – Curriculum development

Quality curriculum and instruction are - as they have always been - the bedrock of education and the way to developing thoughtful and fulfilled professionals. The society, science and technology around our profession are changing rapidly. These changes continuously generate new educational and training needs, which should be responded by educators to ensure that their learners gain knowledge as effectively and efficiently as possible.

#### Working Group 2.2 – e-Learning

To successfully disseminate the knowledge, it is essential to have an up-to-date learning environment. Thanks to the development in information and communication technologies, there have been lots of possibilities and tools re-engineer the classical teaching methods. Because of e-Learning methods are expected to play an increasing role in professional education there is a growing need for knowledge transfer on this field.

#### Working Group 2.3 – Educational Management and Marketing

Knowledge dissemination is not only a methodological / technical problem. Institutes have to own the rights how the published materials may be available for others as well as taking commercial aspects into account. According to the rapidly changing world and demands in professional education business-based survey can help us to manage successful curricula.

#### Working Group 2.4 – Real Estate Valuation and Management Education

This is a joint with Commission 9 to ensure the surveying education keeps up with the rapidly changing field.

By the end of period 2006-2010 Commission 2 will deliver a publication on ‘*The Future of Surveying Education*’. This will be the main outcome of the four years of activity and will include topics such as:

- Needs analysis
- Curriculum development
- Methods
- Web services
- Knowledge pool
- Experiences in Continuing Professional Development and Life-long Learning
- Educational SDI
- Meta-database
- Global and Regional Networks
- Marketing

- Best practices

To support the development of the publication, the Commission will also conduct:

- Workshops
- Summer Schools
- Joint Projects.

In addition to the specific activities above, the Commission will support and contribute to FIG Task Forces and the Standards Network. The Commission will also respond to the FIG Council to address new issues as they emerge.

## **5. Working Groups**

### **Working Group 2.1 – Curriculum development**

#### Policy issues

- To support the mobility among professionals, teaching staff and students using credit transfer.
- To support the implementation of „Bologna” changes (BSc / MSc / PhD / Professional masters) and recognition.
- To facilitate the harmonization of curricula.
- To define a “core knowledge base”.
- To guarantee life-long learning with educational and training services.
- To serve the needs in the new professional challenges.
- To exchange ideas on Quality Management and Accreditation.

#### Chair

Prof Bela Markus (Szekesfehervar, Hungary), email: mb@geo.info.hu

#### Workshop

7-9 June, 2007. Czech Technical University, Prague, Czech Republic

#### Final report

It will be given during the Congress in Sydney.

### **Working Group 2.2 – e-Learning**

#### Policy issues

- To explore the movement from traditional face-to-face teaching towards an integrated learning environment, the changing role of the academic staff.
- To discuss the technical, political, legal, organisational and cultural problems of e-Learning.
- To exchange experiences on content development methods (Multimedia, CBT, Quizzes etc) and student support (Virtual Club / Library, Communication techniques, Teamwork tools).
- To identify the Educational Portal functions
- To disseminate Educational Metadata

### Chair

Liza Groenendijk, ITC (Enschede, Netherlands), email: groenendijk@itc.nl

### Workshop

June 2008. Enschede (Netherlands)

### Final report

It will be given during the Congress in Sydney.

## **Working Group 2.3 – Educational Management and Marketing**

### Policy issues

- To observe and register the new challenges of our profession respond to them.
- To survey the needs for academic members and provide required services.
- To analyse the market and respond by LLL services.
- To promote the need on CPD (Continuous Professional Development).
- To disseminate experiences in recruitment and marketing.
- To distribute know-how in Project and Quality Management.
- To encourage young surveyors (students) on their career.
- To serve ALUMNI and use its power.
- To build twinning and thematic networks.

### Chair

Gert Steinkellner, BEV (Vienna, Austria), e-mail: gert.steinkellner@bev.gv.at

### Workshop

June 2009. Vienna (Austria)

### Final report

It will be given during the Congress in Sydney.

## **Working Group 2.4 – Real Estate Valuation and Management Education (Joint WG with Commission 9)**

### Policy Issues

- Surveyors are traditionally well educated to basics of real estate legislation and markets. In the present world requirements for knowledge in real estate are expanding fast. It is not anymore possible to educate surveyors to all traditional tasks in unified programs but the programs have to have real options where students can really specialise in real estate economics. This is needed in the market (thousands of new jobs) and examples of some countries show that this kind of education is possible and also very attractive for students and markets.

### Chair

Prof. Arvo Vitikainen (Helsinki, Finland), e-mail : arvo.vitikainen@tkk.fi

Co-Chair Prof. Kauko Viitanen (Helsinki, Finland), e-mail : kauko.viitanen@tkk.fi

### Final report

It will be given during the Congress in Sydney.

## **6. Communication**

### **Newsletters**

Commission 2 will inform its delegates and member associations via Commission newsletter.

## **7. Calendar of Events**

- Workshop on Curriculum Development  
Scientia Est Potentia - Knowledge is power. FIG Commission 2 Symposium.  
7-9 June 2007, Czech Technical University, Prague, Czech Republic  
Web site: <http://geoinformatics.fsv.cvut.cz/>
- Workshop on e-Learning, June 2008, Enschede (Netherlands)
- Workshop on Educational management and marketing, June 2009, Vienna, Austria

## **8. Commission Officers**

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**Vice Chair and Chair of WG 2.4**

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