

Commission 2 Professional Education

Activities and Mission

Commission 2 deals with activities concerning

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

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).



Promoting good practices in professional education

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Special points of interest:

Scientia Est Potentia -
FIG Commission 2 Symposium
7-9 June 2007, Prague, Czech Republic
Aleš Čepek
CTU Prague, Faculty of Civil Engineering
Dept. of Mapping and Cartography
Thákurova 7, 166 29 Prague 6,
The Czech Republic
Phone: +420 224 35 4647
Fax: +420 224 355 419
fig2prague@fsv.cvut.cz
<http://geoinformatics.fsv.cvut.cz/>

Mentorsip Programme Network
Klas Ernard Borges
Senior Lecturer
Director of Studies of the MSc
Programme in Land Surveying and
Management
Lund University
Sweden
Phone: +46 46 2220154
klas.ernald.borges@lantm.lth.se

Mentorship Programme Network

FIG Commission 2 has started Mentorship Programme Network together with Lund University. Initiative to this mentorship network was created during the the FIG-congress in Munich in October 2006. The aim is to create a worldwide network for student mentorship programmes. The programme has now started at Lund University (Sweden) for final year students at the MSc engineering programme in Land Surveying and Management. The student has got one professional land surveyor as his/her personal mentor during the final year of studies and thesis work. The mentorship programme is organised at Lund University, but integrated in the activities of the Swedish Association of Chartered Surveyors and the Swedish Society of Real Estate Economics. At the second phase the Network is now interested to get other universities involed. The leading idea is to create a network of membership programmes, and provide the students with contacts to other students abroad.

As a first tentative approach, the Lund University International Student Forum for surveying students and mentorship programs is launched at <http://fig-forum.student.lth.se/index.php>. The international mentorship network will be initiated gradually. More details: http://www.fig.net/commission2/news/mentorship_programme_03_01_2007.pdf

The Mentorship Programme Network will be part of FIG Commission 2 activities in 2007-2010.

Workplan

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 Future of Surveying Education

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.

Working Groups

Working Group 2.1 – Curriculum development

Chair: Prof Bela Markus (Szekesfehervar, Hungary), email: mb@geo.info.hu
Workshop: 7-9 June, 2007. Czech Technical University, Prague, Czech Republic

Working Group 2.2 – e-Learning

Chair: Liza Groenendijk, ITC (Enschede, Netherlands), email: groenendijk@itc.nl
Workshop: June 2008. Enschede (Netherlands)

Working Group 2.3 – Educational Management and Marketing

Chair: Gert Steinkellner, BEV (Vienna, Austria), e-mail: gert.steinkellner@bev.gv.at
Workshop: June 2009. Vienna (Austria)

Working Group 2.4 – Real Estate Valuation and Management Education

(Joint WG with Commission 9)

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



Knowledge is Power

FIG Commission 2 Symposium, Prague, Czech Republic, 7-9 June 2007



**Geoinformatics
FCE CTU**

Latin phrase Scientia Est Potentia (Knowledge Is Power) was selected as a motto of symposium dedicated to development of curricula, organised jointly by FIG Commission 2 and Faculty of Civil Engineering CTU in Prague on the occasion of the 300th anniversary of the Czech Technical University in Prague.

Quality curriculum and instruction are - as they have always been - the bedrock of education and the way to educate thoughtful and fulfilled professionals. The society, science and technology around our profession have been 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.

The main aim of the symposium is to discuss the most important issues in curriculum development and to disseminate modern practices within our surveying profession.

Promoting interaction between education, research and professional practice

Keynote presentation by President Enemark at Commission 2 Symposium in Prague

Curriculum development is the key to the future. It is an ongoing process and it is crucial to both the educational institutions and the society they serve. This relates especially to educational programs designed to professionals such as the surveyors.

There is no doubt that the main challenge of the future will be that the only constant is change. To deal with this constant change the educational base must be flexible. The graduates must be adaptable to a rapidly changing labour market. The point is that professional and technical skills can be acquired and updated at a later stage in ones career while skills for theoretical problem-solving and skills for learning to learn can only be achieved through the process of academic training at the universities. The focus should be on educating for life - not for short term skills.



The keynote presentation will touch on a range of issues and lessons learnt with a special emphasis on ways and means of building professional competence through curriculum development. The basic argument is that development, maintenance and enhancement of professional competence should be seen as a process facilitated through an efficient interaction between education, research and professional practice.

Incorporating New Technologies and Methods into a Curriculum for Surveying

Keynote presentation by Ann B. Johnson at Commission 2 Symposium in Prague

Surveyors and the tools and practices important to the profession are undergoing a technologic transition which is changing the way the profession may be practiced in the future. Increased computer and other hardware capabilities (simpler software interfaces, increased data handling capacity and better accuracy) have opened new avenues to using technologies such as geographic information systems (GIS), global positioning systems (GPS), mobile technologies (phones and other handheld devices) and wireless technology. For educators, use of these technologies by the workforce is challenging them to update their curriculum so that students entering the workforce can use them effectively. At the same time, technology is affecting how educators present the concepts, skills and competencies necessary to effectively make use of the new innovations. Educators and the industry are searching for the most effective way to determine what should be included in a new curriculum and what is the best method to offer that curriculum - both for entering students and for working professionals updating their skills. This presentation will cover some of the work that has taken place and is ongoing to help educators and industry meet the challenge of incorporating new technologies and teaching methods into the surveying curriculum to meet the current and future needs of the profession.

Ann B. Johnson
Higher Education
Solutions
Manager (ESRI)
**will give a
keynote on
„How to meet
the Challenge”**

Themes

at Commission 2 Symposium in Prague

- Needs analysis - new skills and competences in surveying
- Satisfaction of needs in the new professional challenges
- Maintenance of the curricula
- Implementation of „Bologna” changes
- Changing role of educators
- Experiences in students' mobility and credit transfer
- Project-Based Learning, Learning-to-Learn methods
- Accreditation
- The future of young surveyors

More information:

<http://geoinformatics.fsv.cvut.cz/>



International Federation of
Surveyors

Commission 2
Professional Education
www.fig.net/commission2/

Phone: +36 22 516 522
Fax: +36 22 516 522
Email: fig2@geo.info.hu

▶ **Promoting good
practices**

[www.fig.net/
commission2](http://www.fig.net/commission2)

Events

Prague, 7-9 June, 2007
Big Rapids, 11-13 July 2007
Valencia, 18-21 February 2008
Stockholm, 14-19 June, 2008
Enschede, June 2008
Eilat, 3-8 May 2009
Vienna, June 2009
Sydney, 9-16 April 2010

Commission Officers

Commission Chair
Prof. Bela Markus
Faculty of Geoinformatics
University of West Hungary
Pirosalma u. 1-3
P.O. Box 52
H-8000 Szekesfehervar
HUNGARY
Tel. + 36 22 516 523
Fax + 36 22 516 521
Email: fig2@geo.info.hu

Vice Chair of Administration
Tamas Jancso
Faculty of Geoinformatics
University of West Hungary
Pirosalma u. 1-3
P.O. Box 52
H-8000 Szekesfehervar
HUNGARY
Tel. + 36 22 516 522
Fax. + 36 22 516 521
Email: fig2@geo.info.hu

FIG Working Week 2007, Hong Kong SAR, China
Commission 2 - Annual Meeting
Hotel Kowloon Shangri-La, Peony Room
Sunday, 13 May 2007
16:00-17:00

Agenda

Welcome
Introduction
Discussion
 Commission 2 workplan
 WG activities and plans (5 min/WG)
Commission 2 meetings, workshops / symposiums
Activities in Hong Kong
 Technical sessions
 WG Meetings
 Commission 2 WG Chairs' meeting
Other issues
Closing