



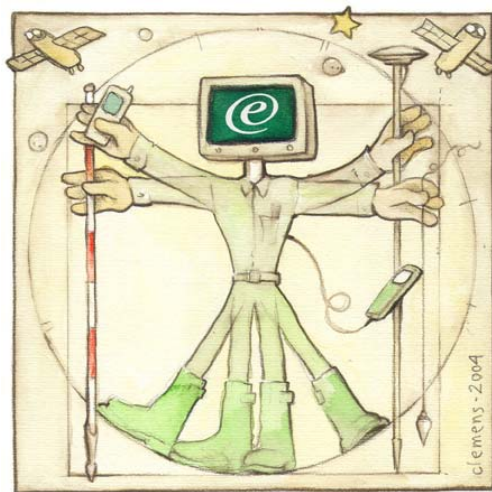
**FIG Working Week 2005 and GSDI-8  
"From Pharaohs to Geoinformatics"  
Cairo, Egypt – 16-21 April 2005**

**FIG/GSDI Workshop**

## **Virtual Academy and the Surveying/Geoinformatics Community**

**Cairo, Egypt  
16<sup>th</sup> April, 2005**

**Invitation and call for papers**



The future surveyor will have to work very close with modern geo-information-technology and **he has to be very qualified in using and developing this already at university**. The illustration is inspired by Leonardo da Vinci's "*Vintruvian Man*, 1492"

**Organised by  
FIG – International Federation of Surveyors  
Commission 2 – Professional Education**

## INVITATION

**FIG** is an international, non-governmental organisation whose purpose is to support international collaboration for the progress of surveying in all fields and applications. FIG is the only international association representing all surveying disciplines. FIG has members in more than 100 countries. [www.fig.net](http://www.fig.net)

**GSDI** supports ready global access to geographic information. This is achieved through the coordinated actions of nations and organizations that promote awareness and implementation of complimentary policies, common standards and effective mechanisms for the development and availability of interoperable digital geographic data and technologies to support decision making at all scales for multiple purposes. [www.gsdi.org](http://www.gsdi.org)

Within FIG the **Commission 2 – Professional Education** is working with education and training for surveyors. The Commission coordinates a network of academic members of FIG and works to strengthen and widen this network. For Commission 2 delegates and others with interest in education and training for surveyors FIG Commission 2 will organise a workshop with the title:

### **“Virtual Academy and the surveying / geoinformatics community”**

**Virtual Academy** refers to the use of Internet communication and computers to create learning WEB-sites (e-Learning) to be used both for surveying/geoinformatics students on-campus and while graduating as to life-long learning for graduated surveyors/GIS-experts in practice.

In a very broad sense Internet has changed everything related to education for surveyors. New information- and communication tools (ICT) like mail, videoconferences, web-sites are already well implemented on many universities within land management and geoinformatics. Still more technologies based on IP-standards are being introduced and will create new tools for the educators' toolbox. Streamed video and more bandwidth will radically change reality in the lecture theatre and in the labs.

The Commission 2 for education and research organises this workshop to get an overview of what changes and development actually take place in universities and in the academic member institutions within FIG and other surveyor/geoinformatics-related learning environments. In the light of the papers received from educators the intention of the review is afterwards to produce a book to be published before the FIG Congress 2006 in Munich.

The aim of the workshop is to:

- Promote partnerships between academic institutions on surveying and geoinformatics
- Develop recommendations for FIG / GSDI and members to meet the future in E-learning
- Prepare a reviewed book / report for the FIG Congress 2006
- Develop a network of academic institutions on surveying/geoinformatics

The workshop takes on Saturday, April 16, 2005, just before the FIG Working Week 2005 and participants will easily be able to participate in both events.

#### **Professor Bela Markus**

University of West Hungary, Hungary  
Chair Elect of FIG Commission 2

#### **Professor Esben Munk Sørensen,**

Vice Chair of Commission 2 and Chair of Working group 2.2: Virtual Academy  
Aalborg University, Denmark

#### **Professor Henrik Haggren**

Helsinki Technical University, Finland

## **ORGANIZING COMMITTEE**

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Chair elect of FIG Commission 2

Professor Esben Munk Sorensen,  
Vice chair of Commission 2 and chair of Working group 2.2: Virtual Academy  
Aalborg University, Denmark

Professor Henrik Haggren  
Helsinki Technical University, Finland

Markku Villikka  
FIG Director,  
FIG Office, Copenhagen, Denmark

## **THEMES AND TOPICS IN THE WORKSHOP**

Educators (professors, associates and others related to the university curricula for surveyors are invited to produce papers and give presentations within the following four topics:

### **A: Learning Theory**

Learning by doing – theoretical studies and e-learning – student-guided learning processes – problem based learning – testing skills and individual theoretical knowledge through e-procedures

### **B: General Tools and Technologies for Digital Learning Environments (general)**

WEB-site – Open Source – Video Streaming – Conferences – Hypertext documents - Copyright to intellectual products – facilities - Student Portals

### **C: Specific tools, sites and procedures for e-learning**

Surveying data processing – fieldwork/laboratories – spatial data libraries – knowledge base for e-land administration

### **D: Implementation of full documented digital learning environments**

Developing the organisation – training the "trainers" and the technical staff at the university – Top-down implementation versus bottom-up

## **METHODOLOGY OF THE WORKSHOP**

Participants are invited to present their visions and experiences in an academic form with papers to be reviewed traditionally. The workshop will not focus on demonstration but on visions, elements in e-learning and experiences made. The methodology for the workshop is to present papers containing documentation about these issues.

## **OUTPUT OF THE WORKSHOP**

A compendium will be made from the presentations to give educators a possibility to publish their experience with Virtual Academy and E-learning in an academic/scientific manner. The compendium will be edited to a book after the workshop, which will be published by FIG and distributed in connection with the FIG Congress in Munich in October 2006.

## **IMPORTANT DATES FOR THE PREPARATION OF THE WORKSHOP**

- December 1, 2004: Announcement and Call for Papers
- January 15, 2005: Deadline for abstracts
- February 1, 2005: Acceptance of papers.
- March 1, 2005: Deadline for full papers.

## **PROGRAMME**

The programme for the workshop is organised in sessions related to the topics. The three sessions will take place on Saturday, April 16, 2005 and in the evening there will be a workshop dinner. FIG Working Week starts the following day.

The workshop will take place on Saturday 16<sup>th</sup> April at the Semiramis Intercontinental Hotel in Cairo, which is also the venue for the FIG / GSDI Conference.

The workshop will be arranged in connection with FIG Working Week and 8th International Conference of the Global Spatial Data Infrastructure (GSDI-8) in Cairo, Egypt, 16-21 April 2005 – please visit the web site [www.fig.net/cairo](http://www.fig.net/cairo).

## **FEES**

There is no additional registration fee for participants who will attend the FIG/GSDI Conference. Pre-registration is however necessary at the conference web site: [www.fig.net/cairo](http://www.fig.net/cairo). Lunch and 2 coffee breaks are included for the participants.

Registration fee for participants who want only attend the workshop is 100 EUR including lunch and 2 coffee breaks. To register only to the workshop, contact the FIG Office, email: [fig@fig.net](mailto:fig@fig.net).

## **CONFERENCE OFFICE AND REGISTRATION**

More information and registrations to:

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