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## 1. Introduction

### 1.1. Welcome by Rector ITC

We are happy to see you in the The Netherlands and more specifically here in Enschede at ITC. We have been known for more than 55 years as an institute for capacity building in the field of Geo-Information Science and Earth Observation. Our research and PhD program, our educational programs and project services focus especially on the needs of the lesser developed countries. We have more than 19000 alumni in more than 165 countries.

In the last years, ITC has put a major effort in the development of e-learning in the form of distance short courses, MSc-supervision on a distance, e-support to Joint Education Programmes, and multi-usable courseware. We thought this to be the right location for this International Workshop.

The Organising Committee did their very best to prepare this International Workshop. It is now up to you to make it a success. On behalf of the ITC community I wish you a fruitful and enjoyable Workshop.

Martien Molenaar

### 1.2. Welcome by the Vice-President of FIG

Welcome to ITC to join the FIG International Workshop on "E-learning in Surveying, Geo-information Sciences and Land Administration". The FIG is an international, non-government organisation whose purpose is to support international collaboration for the progress of surveying in all fields and applications. This includes education and professional development.

FIG' s current work plan, titled "Building the Capacity", focuses on the surveyor's response to social, economic, technological and environmental change. FIG recognises the particular needs of capacity building in developing countries to meet the challenges of fighting poverty and developing a basis for a sustainable future.

The needs for good professional education and the needs for building competent human resources are most relevant in relation to this. Given the needs in education in relation to the available capacity we have to look for new approaches - e-Learning is expected to contribute here.

I would like to thank the organizers for their hard work and the excellent program that they have put together and I wish the workshop much success as well as many stimulating discussions.

Paul van der Molen

### 1.3. Words of welcome by the Conference Chair

Welcome to the FIG International Workshop 2008 on e-learning. The workshop is a joint event by FIG Commission 2, Professional Education, and Commission 7, Cadastre and Land Management. The general theme of the workshop is Sharing Good Practice: e-learning in surveying, geo-information sciences and land administration. We have tried to prepare for you an exciting and interesting programme, both scientifically and socially. We have been very pleased by the high quality of the papers representing a wealth of good practices in e-learning. We are very happy with the keynote and invited speakers who have been willing to give their scientific vision on the subject and we trust that you will go home after this event with new insights, knowledge, ideas, and, of course, new contacts and friends.

If there are any aspects of the workshop organisation which are not satisfactory, or are a problem for you, please come and discuss it with me personally, as our Organising Committee has really done the best they could so any deficiencies are due to my neglect.

We wish you an enjoyable stay in Enschede during this International Workshop, and hope you will take advantage of the opportunity to build new networks, strengthen existing relations, learn new things and try out challenging e-learning tools during the various technical and social activities planned during your stay here.

Liza Groenendijk

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#### **1.4. Information about Enschede**

Enschede, with a population of 160.000 is in the eastern part of the The Netherlands, 5 km from the border with Germany. It is a major educational centre with ITC, the University of Twente, the Enschede Polytechnic and many other schools and colleges in the area. The International Workshop is held in ITC, with excellent lecture rooms and exhibition areas.

Detailed information about the city of Enschede can be found in the brochure "Welcome to Enschede" which was handed to you in the conference bag.

#### **1.5. Contact information**

If you have questions during the International Workshop please go to the registration desk near the auditorium.

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## 2. Programme Organisation

### 2.1. Scientific Committee & Reviewers

- Prof. Stig Enemark (Aalborg University, Denmark)
- Prof. Yola Georgiadou (ITC, The Netherlands)
- Prof. Bela Markus (University of West Hungary, Hungary)
- Prof. Paul van der Molen (ITC/Dutch Cadastre, The Netherlands)
- Dr. Sven Åke Bjørke (UNU/Global Virtual University, Norway)
- Dr. Nicholas Frunzi, (Environmental Systems Research Institute Inc., USA)
- Dr. Tamás Jancsó (University of West Hungary)
- Dr. Mathilde Molendijk (Free University Amsterdam, The Netherlands)
- Dr. Connie Blok (ITC, The Netherlands)
- Dr. Marie Jose Verkroost (ITC, The Netherlands)
- Ineke ten Dam (ITC, The Netherlands)
- Liza Groenendijk (ITC, The Netherlands)
- Christiaan Lemmen (ITC/Dutch Cadastre, The Netherlands)
- András Osskó (Budapest Land Office, Hungary)

### 2.2. Organising Committee

- Christiaan Lemmen
- Frans Gollenbeek
- Ineke ten Dam
- Janneke Kalf
- Jorien Terlouw
- Kottyan Laszlo
- Linlin Pei
- Liza Groenendijk (Chair)
- Marie Jose Verkroost
- Martin Blankestijn
- Saskia Tempelman
- Tamás Jancsó

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### 3. International Workshop Support Programme

#### 3.1. Social events

Tuesday 10 June: 18.00 – 19.00 Icebreaker reception at ITC (dress: informal)  
Thursday 13 June: 19.00 – 22.00 Workshop dinner

#### 3.2. List of hosts and sponsors

- **Kadaster**

Kadaster International  
Hofstraat 110  
7311 KZ  
Apeldoorn  
The Netherlands  
<http://www.kadaster.nl/index.html>

- **ITC**

ITC  
P.O. Box 6  
7500 AA  
Enschede  
The Netherlands  
[www.itc.nl](http://www.itc.nl)

- **FIG**

International Federation of Surveyors, FIG  
Kalvebod Brygge 31-33  
DK-1780 Copenhagen V  
Denmark  
<http://www.fig.net/>

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## 4. General Information

The overall topic of the international workshop is: *"Sharing Good Practices: E-learning in Surveying, Geo-information Sciences and Land Administration"*. The Program of the International Workshop embraces an Opening Session, 3 Keynote speakers, 6 Technical sessions, 3 Discussion sessions, 4 Hands-on sessions and a Demonstration

On this page you will find arrangements and programme information for the International Workshop. Information regarding the keynote speakers, sessions, discussion sessions, hands-on sessions, demonstrations and social events, organized by the Organizing Committee are also to be found here.

### 4.1. Venue

The International Workshop will be held at ITC in Enschede. All meeting rooms for the International Workshop will be located at ITC. Room 2-004 is on the second floor room number 004. Room 0-142 is on the ground floor room 042. Signs will direct participants to rooms and the hostess team is present to ask for directions.

*Room assignments are as follows:*

Opening Session	Auditorium
Keynote speakers	Auditorium
Sessions	Auditorium/ 2-108
International Workshop Secretariat	Reception desk, near Auditorium
Speaker's Desk	Room 0-137
Coffee Breaks	Annex/ 0-142/ 146
Ice breaker reception Tuesday	Annex/ 0-142/ 146
International Workshop Diner	'Restaurant 10', Volkspark
Lunch	Annex/ 0-142/ 146

### 4.2. Registration desk / International Workshop secretariat

The registration desk for the International Workshop will be located in the ITC Entrance Hall. In case you have any questions, or if you need any facility, please go to the Registration desk/International Workshop secretariat.

The registration desk is open according to the following schedule of operation:

Tuesday 10 June 17.00 - 19.00  
Wednesday 11 June 08.00 - 12.30  
Thursday 12 June 08.00 - 12.30  
Friday 13 June 08.00 - 12.30

### 4.3. Name badges

Name badges and conference information will be handed to all delegates when registering. Name badges are required for entry to all International Workshop events: the Plenary and Technical Sessions, including the coffee breaks and the social event.

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#### **4.4. Refreshments**

Coffee and tea will be served in room 0-142/0-146. Coffee breaks are included in the registration fee of all registered participants and guests of the International Workshop.

*From Wednesday 11 June to Friday 13 June:*

08:30 - 09:00 Coffee/ tea

10:30 - 11:00 Coffee/ tea

15:30 - 16:00 Coffee/ tea

Lunch will be served to all International Workshop participants' in room 0-142/ 0-146. Participants should wear their name badge to enter the lunch area. The early morning coffee, the lunches and coffee/tea breaks are all included in the Registration Fee.

*Lunch breaks are as follows:*

Wednesday 11 June: 12.30 -14.00 hrs

Thursday 12 June: 12.30 -14.00 hrs

Friday 13 June: 12.30 -14.00 hrs

#### **4.5. Language of the International Workshop**

The working language of the International Workshop will be English.

#### **4.6. Internet connection**

During the International Workshop wireless internet connection will be available at the Conference Area on the ground floor. Internet computers will also be available for usage for conference participants (free of charge). Check the IT manual in your conference bag how to connect to the wireless network and other IT facilities at ITC.

#### **4.7. Information for speakers**

A Speakers Desk and Technical Assistance Desk will be set up in room 0-137 and speakers can hand in their presentation as soon as possible. The presentation will be uploaded to the computer in the room in which you present.

A technician will be available to assist speakers with their presentations.

*Hours of operation of Technical Assistance Desk are as follows:*

Wednesday 11 June 08.00 – 11.00

The Speakers of the Sessions have a maximum of 15 - 20 min. for their presentation and discussion depending on the session. The Session Chair will give a warning to wrap things up.

#### **4.8. Attendance certificates**

Attendance Certificates will be available from the Secretariat Desk upon request.

#### **4.9. Travel Service**

For any travel needs, such as reconfirmation of flights please report to registration desk.

#### **4.10. Illness**

For any medical problems please report to the registration desk.



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#### **4.11. Safety**

Please do not leave anything of value unattended. There is security present but do not provoke theft. If you notice a fire you should immediately raise the alarm by breaking the glass of the nearest manual fire alarm call point or dial 260 at the nearest phone.

In case of fire or other emergency please stay calm and listen to the announcements and to staff indicating where you should go and what you should do. We have trained personnel present within the ITC building.

#### **4.12. Smoking policy**

Smoking is prohibited in the ITC building. However, a special smoking room can be found in 0-108 near the Restaurant. Smoking is also allowed outside the building (garden).

#### **4.13. Mosque**

A mosque is situated on the third floor.

#### **4.14. Library**

The library is situated on the third floor.

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## 5. Detailed Programme of the International Workshop

Every day the latest version of the programme will be posted in the reception area of the ITC building.

### Tuesday 10 June

- 17.00 - 19.00 Registration
- 18.30 - 20.00 Ice Breaker Reception  
Location: 0-142/146

### Wednesday 11 June

- 08.00 – 12.30 Registration
- 09.00 – 10.30 Opening Session**  
Location: Auditorium
- Welcome Speech: Prof. Martien Molenaar, The Netherlands  
Welcome Speech: Prof. Stig Enemark, Norway  
Welcome Speech: Prof. Paul van der Molen, The Netherlands  
Explanation of programme and workshop procedure
- Opening Keynote Speaker: Nicholas Frunzi, ESRI, USA**  
Location: Auditorium  
Presentation: The ESRI Virtual Campus: Looking Back and Envisioning the Future
- 10.30 – 11.00 Coffee/Tea Break
- 11.00 – 12.30 S1a Good practices in E-learning and Distance Education**  
Location: Auditorium  
Chair: Bela Markus, Hungary
- Invited Speaker: Mathilde Molendijk,, The Netherlands**  
Paper: Geographical Information for all: Breaking the Barriers for GI Distance Learning
- Jennifer van Vooren, Belgium: Learning specifications for land surveying with a home study package
- Reinfried Mansberger, Austria: Communication Tools in E-learning: Experiences in Academic Surveying Education
- 11.00 – 12.30 S2a Engaging in E-Learning**  
Location: 2-108  
Chair: András Oskó, Hungary
- Invited Speaker: Sven Åke Bjørke, Norway**  
Paper: Challenges and training needs of E-supporters
- Tamas Jancso, Hungary: Development of E-learning Packages in the Blackboard Learning System
- Conrad Hong-Wai Tang, Hong Kong: Outcome-based learning and evaluation on land surveying professional practice
- 12.30 – 14.00 Lunch

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- 14.00 – 15.30 S1b Good practices in E-learning and Distance Education**  
Location: Auditorium  
Chair: Bela Markus, Hungary
- David Wahlstrom, United States: Distance Education Using Contemporary Technology
- Kottyan Laszlo, Hungary: Sharing the student knowledge in exchange programs
- Ivana Ivanova, The Netherlands: Self-instructive course on Principles of databases
- 14.00 – 15.30 S2b Engaging in E-Learning**  
Location: 2-108  
Chair: András Osskó, Hungary
- Jim MacKenzie, Canada: Minding the Capacity Gap: eLearning on Canada Lands
- Pavel Kristianov Milenov, Italy: Provision of technical support and regulatory reference information on the control of agriculture subsidies in EU through Wiki-based Knowledge Management
- Dr. H, Baki Iz, Hong Kong: Web-assisted teaching in the Dept. of Land Surveying and Geoinformatics
- Vladimir Golubev, Russian Federation: Experience of development and uses of the automated teaching in the Moscow State University of Geodesy and Cartography
- 15.30 – 16.00 Coffee/Tea Break
- 16.00 – 17.30 D1 Discussion in home groups**  
4 home groups will be formed
- 18.00 – 19.00 Visit to Virtual Reality Lab at Twente University**

## Thursday 12 June

- 09.00 – 10.00 **Keynote speaker: Bela Markus, University of West Hungary, Hungary**  
Location: Auditorium  
Paper: Thinking about E-Learning
- Keynote Speaker: András Osskó, Budapest Land Office, Hungary**  
Location: Auditorium  
Paper: The importance of changes in land surveyors' education
- 10.00 – 10.30 **S3a Continuous Professional Development**  
Location: Auditorium  
Chair: Christiaan Lemmen, The Netherlands
- Richard Grover, United Kingdom: Developing quality training approaches for effective property tax administration
- 10.00 – 10.30 **S4a International Cooperation and/in E-learning**  
Location: 2-108  
Chair: Paul van der Molen, The Netherlands
- Invited Speaker: Connie Blok, The Netherlands**  
Paper: Experiences with e-courses in GI science in a European network of partners
- 10.30 – 11.00 Coffee/Tea Break

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- 11.00 – 12.30 S3b Continuous Professional Development**  
Location: Auditorium  
Chair: Christiaan Lemmen, The Netherlands
- Battogtokh Demchig, Mongolia: Land Management and Fiscal Cadastre Process Using Geo Information Science Over Darkhan, Mongolia
- Ezzatollah Mohammadi, Iran: Organizational E-Learning to promote integration of multi source cadastral data based on common ontologies
- Bambang-Edhi Leksono, Indonesia: Automatic land and parcel valuation to support the land and buildings tax
- Dimo Todorovski, Macedonia: Capacities, tools and methods that support E-learning
- 11.00 – 12.30 S4b International Cooperation and/in E-learning**  
Location: 2-108  
Chair: Paul van der Molen, The Netherlands
- Gerhard König, Germany: ISPRS Activities on E-Learning in Photogrammetry and Remote Sensing and GIS – Status and Challenges
- Dimos Pantazis, Greece: E-learning and blended approaches for cartographic courses at the Surveying Engineering Department of Technological Educational Institution (TEI) of Athens: Challenges and Problems
- Olutoyin Justus Oloniteru, Nigeria: Experience in E-learning through International Collaboration & Cooperation: A Case Study of the February - May 2007 Course in Introduction to Geographic Information System (GIS) Using Free and Open Source Software
- 12.30 – 14.00 Lunch
- 14.00 – 15.00 HSD1 Hand-on Sessions**  
Location: 1-030, 1-032, 1-040, 1-076
- LinLin Pei, The Netherlands: Captivate for Animations and simulations
- Kottyan Laszlo, Hungary: Creating a Wiki
- Wan Bakx, The Netherlands: Quick and Easy lecture video recording
- Johannes Flacke, The Netherlands: Communicate, Collaborate, Educate with Elluminate
- 15.00 – 15.30 HSD2 Demonstrations**  
Location: Auditorium
- Co Meijer, The Netherlands: The Kadaster Case
- 15.30 – 16.00 Coffee/Tea Break
- 16.00 – 17.30 D2 Discussion in home groups**
- 19.00 – 22.00 Workshop dinner**

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## Friday 13 June

09.00 – 10.00 **Presentations**

**Invited Speaker: Ellen-Wien Augustijn, The Netherlands**

Location: Auditorium

Paper: Cross-Fertilization between three different teaching modes for Geo-Informatics education

**Invited Speaker: Henny Mills, United Kingdom**

Location: Auditorium

Paper: A virtual surveying field course for traversing

10.00 – 10.30 **S5a Engaging in E-learning**

Location: Auditorium

Chair: Tamas Jancso, Hungary

**Invited Speaker: Ineke ten Dam, The Netherlands**

Location: Auditorium

10.00 – 10.30 **S6a FIG Commission 2 and Commission 7**

Location: 2-108

Chair: Bela Markus/ András Oskó, Hungary

10.30 – 11.00 Coffee/Tea Break

**11.00 – 11.45 S5b Engaging in E-learning**

Location: Auditorium

Chair: Tamas Jancso, Hungary

Marinus de Bakker, The Netherlands: Lessons learnt of a mixture of classical - and e-learning mode for GI professionals, experiences of a software company and an Institute for Higher Education

Miljenko Lapaine, Croatia: E-learning at the University of Zagreb

**11.00 – 11.45 S6b FIG commission 2 and Commission 7**

Location: 2-108

Chair: Prof. Bela Markus/ András Oskó, Hungary

**11.45 – 12.30 D3 Discussion in home groups**

12.30 – 14.00 Lunch

**14.00 – 15.30 Closing Session**

Location: Auditorium

Chris Paresi, Chairman of the Department of Urban and Regional Planning and Geo-Information Management, ITC, The Netherlands