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Welcome to new ISPRS Sustaining Members

• International Institute for Aerospace Survey and Earth Sciences (ITC) •



Profile of New Sustaining Members

ITC

ITC develops and transfers knowledge on geoinformation management for sustainable development

One of mankind's greatest challenges is achieving an appropriate balance between the development of natural resources and maintaining an optimal natural environment. To meet this challenge, we need detailed and reliable geo-information and geo-information management tools. At the International Institute for Aerospace Survey and Earth Sciences (ITC), knowledge of geo-information management is amply available, and continually being developed and extended. By means of education, research and

consulting, we contribute to capacity building in the developing world. In doing this, much attention is paid to the development and application of geographic information systems for solving problems. These problems can range from determining the risks of landslides and forest fires to designing a good wildlife management system and detecting minefields.

'Geo-information management', 'worldwide' and 'innovative' are our key words. We concentrate on earth observation, the generation of spatial information and on the development of data integration methods. We provide tools that can support the processes of planning and decision making for sustainable development and the alleviation of poverty in developing countries. ITC has offices in Enschede and Delft.





ITC's modern and internationally-oriented building in Enschede, The Netherlands.

This year, ITC celebrates its 50th anniversary. The Institute was established in 1950 under the name International Training Centre for Aerial Survey and consequently is usually referred to as ITC.

Around the world, there are over 14,000 people who have graduated from this international institute of education and research during the course of those 50 years.

The ITC educational programme offers 6 degree programmes, leading to PhD, MSc and PM degrees as well as shorter diploma and certificate courses and tailor-made courses.

Within those 6 programmes students can specialise themselves in different directions through specialisation and electives modules:

Earth Resources and Environmental Geosciences

- Coastal Zone Studies
- Land Degradation, Rehabilitation and Conservation
- Geological Resources Management and Environmental Geology
- Geological Engineering
- Mineral Resource Exploration and Evaluation
- Applied Geophysics
- Natural Hazards Studies
- Environmental Systems Analysis and Management

Geoinformatics

- Photogrammetry and remote sensing
- Geographic Information Systems
- Cartography and Geo-information Visualisation
- Optimisation of Geo-informatics Processes

Geo-Information Management

- Urban Management
- Rural Development and Resource Management
- Cadastre and Land Registration

Natural Resources Management

- Planning and Co-ordination in Natural Resource Management
- Sustainable agriculture
- Rural land ecology
- Forestry for sustainable development
- Soil Information Systems

Urban Planning and Land Administration

- Urban Planning and Management
- Urban Land Administration

Water Resources and Environmental Management

- Watershed Management, Conservation and River Basin Planning
- Groundwater Resources Evaluation and Management
- Environmental Systems Analysis and Management



News from Sustaining Members

LH Systems

Photogrammetry to go: LH Systems Sells over the Internet

LH Systems has entered the world of e-commerce by adding an online store, Photogrammetry to Go, to its Web site. The store enables existing users of the company's market-leading SO CET SET® digital photogrammetry software to add extra seats extremely rapidly – 24 hours a day, 7 days a week. – giving these customers the capability to respond to project demand with short-term increases in capacity. The store also offers hardware items, for example for stereoscopic viewing and XYZ control of the measuring mark, and second hand equipment. Access is easy – a single click from LH Systems' home page at www.lh-systems.com.

For further information:
www.lh-systems.com

(Source: LH Systems, LLC)



LH Systems

LH Systems Flies Prototype of New Sensor

LH Systems has made successful test flights of a prototype of its forthcoming airborne digital sensor. These have established the effectiveness of the hardware design. Developed in partnership with the German Aerospace Centre (Deutsches Zentrum für Luft- und Raumfahrt – DLR), the sensor is based on a three-line-scanner concept. The focal plane is populated with three very long linear CCD arrays that capture 12-bit panchromatic data looking forwards, vertically downwards and backwards from the aircraft, so that every point on the earth's surface is imaged on each of three continuous strips of imagery. Four further arrays on the focal plane provide multispectral data.



The new sensor will incorporate an integrated inertial/GPS position and orientation system from Applanix Corporation, to facilitate post-processing of imagery acquired by the new sensor. This will enable the generation of rectified panchromatic products, colour and false colour composites, and the

full range of geographic information available from photogrammetry. Not only will the imagery offer photogrammetric precision, but the multispectral data can be further exploited using today's excellent remote sensing tools.

The sensor is designed to capture data with pixel sizes between 15 cm and one meter by varying the flying height. It is thus complementary with film cameras such as LH Systems' RC30, which can capture imagery with resolutions as fine as 2 cm, and with the new generation of high resolution satellite sensors.

The production model of the sensor is scheduled for introduction at the XIXth Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS) in Amsterdam in July 2000. The success of the prototype is the latest indication that this goal will be fulfilled.

For further information:
www.lh-systems.com

(Source: LH Systems, LLC)