



FIG Working Week 2005 and 8th International Conference on the Global Spatial Data Infrastructure (GSDI-8)

**Intercontinental Semiramis
Cairo, Egypt
16–21 April 2005**

Final Programme

From Pharaohs to Geoinformatics

Organised by:



The Egyptian Committee
of Surveying and
Mapping (ECSM)



Egyptian Survey
Authority (ESA)



International
Federation
of Surveyors (FIG)



Global Spatial
Data Infrastructure
(GSDI)

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All papers are available at www.fig.net/pub/cairo

Printed in Cairo, April 2005

Invitations



Dear colleagues,

On behalf of the Organizing Committee, I would like to welcome you to the FIG Working Week and the 8th International Conference of GSDI in Cairo from 16 to 21 April 2005. The Organizing Committee consists of the Egyptian Committee for Surveying and Mapping (ECSM), and the Egyptian Survey Authority (ESA), who together with the FIG office and GSDI office are in charge of the arrangements of the conference. ECSM is a non-governmental organization whose members are academics from universities and professionals from private sector companies and senior civil servants from governmental bodies. These members have the highest experience in the field of geographic information, geodesy, astronomy, surveying, information technology...etc.

The theme of the conference "From Pharaohs to Geoinformatics" reflects thousands of years of working in the field of geoinformatics which comes from three fields (geography, information and mathematics); in addition geodesy and astronomy and other related sciences were introduced in Egypt a thousand years ago.

The conference will be held at the Hotel Semiramis Inter-Continental in the centre of Cairo. The program of the conference contains in addition to the high profile professional part, a large entertaining part including social events, social visits, gala dinner and opening ceremony, which will be full of the Egyptian folklore filled with the ancient and modern history fragrances.

As the organizing committee we are happy to welcome you to Egypt before, during and after the conference. We wish you all the joy, and entertainment besides the scientific part of the conference.

Dr. Eng. Ahmed Fouad El-Sheikh

President of ECSM



Dear colleagues,

On behalf of the Egyptian Survey Authority (ESA) it is a pleasure for me to invite you to FIG Working Week 2005 and GSDI-8 under the theme "From Pharaohs to Geoinformatics" to be held in Cairo April 16–21, 2005, where the pharaohs invented the first land measurement and surveying system. The Egyptian Survey Authority is the sole organization, which takes care of geographic information including digital maps in Egypt as well as building geographic information systems. It is located in central Cairo surrounded by shops and hotels from different categories, the Cairo University, which is the oldest in Egypt, and the Orman Garden, which is the most interesting botanical garden. It is also close to the Zoo with a collection of rare birds and animals, the Pyramids in Giza, which are more than 4000 years old. You will ask yourself, how people were able to build such a miracle tomb from the engineering, surveying and astronomical point of view. Among this entire feature you will find the life artery, the river Nile. If you look at Cairo at night you will know what the word magic means and you will know why we are very proud of our country.

By inviting you to the FIG and GSDI conference in Cairo we assure you that you will enjoy the Egyptian flavor in history, science, and joy.

Eng. M. Hisham Nasr

Chairman of Egyptian Survey Authority (ESA)

Vice Chair of the Organizing Committee



Dear Colleagues and Friends,

As President of the International Federation of Surveyors, FIG, I would like to welcome all surveyors, geodesists and GIS experts from all over the world to attend the first joint FIG / GSDI Conference in Cairo, April 16–21, 2005. The conference will include the FIG Working Week 2005 and the 8th GSDI International Conference within an integrated and well-balanced professional programme. It will be the first time when FIG is organising its annual working week together with another international organisation. We in the FIG Council feel that Egypt is the right venue to test this new initiative and that GSDI is the right partner to start with.

As the home of surveying and land readjustment Cairo and Egypt will offer the historical perspective to surveying and data collection and at the same time it will provide interesting sites for technical tours and social programme – and also for pre- and post conference tours. Modern Egypt is under big development and making its way towards information and knowledge society – or I would like to say towards geoinformation society. Thus the conference will offer platform for interesting dialogues about the role of new technologies in surveying and geodesy, while at the same time it also links surveying and geoinformation together. The theme of the conference "From Pharaohs to Geoinformatics" covers the interests of all hosting organisations – not only those of FIG and GSDI – but also those of the local organising committee and the Egyptian Committee on Surveying and Mapping (ECSM) and the Egyptian Survey Authority (ESA) as well as the local GIS experts.

We expect that the conference will be the biggest FIG working week ever and that the technical programme with almost 40 technical sessions together with the largest ever technical exhibition and a very attractive social programme will gather the biggest audience that we have had to any FIG event outside the four-yearly congress. For FIG this conference will be the last one before the FIG World Congress in Munich in 2006. Thus there will be a lot of meetings to prepare the future work plans.

I would like to inspire especially all GIS experts to this conference joining our global family of surveyors. It is my conviction as FIG President that surveyors and GIS people should come and speak together more often.

I am confident that thereby the conference in Cairo will efficiently help not only to bridge but even to remove the often lamented mental gap between surveying and GIS!

I look forward to meeting you all in Cairo in April 2005.

Univ. Prof. Dr.-Ing. Holger Magel

FIG President



Dear Friends,

The Global Spatial Data Infrastructure (GSDI) Association is pleased to invite the global spatial data community to the Joint GSDI/FIG Conference in Cairo, Egypt during April 16–21, 2005. This will be the 8th of the international GSDI Conferences and the programme will be integrated and knit with the International Federation of Surveyors (FIG) Working Week 2005.

GSDI-8 will be different from GSDI-7 and previous GSDIs in many ways – first, we are joining with FIG – thus providing a broader canvas of technical sessions and networking opportunities to the SDI community. Surveying has been at the core of spatial data availability and thus we feel that the opportunity to network between surveyors and SDI professionals is

Invitations & Organising Committee

the right thing to happen. While "From Pharaohs to Geoinformatics" has been selected as the overall theme of the joint conference, GSDI-8 would focus on SDI in an Information Society – thus bringing to fore issues and perspectives of how SDI would play a role in an Information and Knowledge Society. For society to be informed and knowledgeable, spatial information is an important "content". These spatial information sets are vital to make sound decisions at the local, regional, state and central level, implementation of action plans; natural resources management; infrastructure development; disaster management support; and business development. With the availability of satellite- and aerial-based remote sensing data and modern surveying methods, the organisation of spatial databases around a Geographical Information Systems (GIS), combined with the Global Positioning System (GPS), has become very easy. Thus, the process of semantic spatial data infrastructures have now become a reality. We believe that in an information Society, SDI will be an important element.

The GSDI-8 Conference sessions will offer tremendous opportunities to government, industry and academia to discuss and plan their future SDI activities. GSDI would also bring focus on investing into the future – in terms of education, training and capacity building. Industry sessions would bring industry perspectives to SDI and information Society. There would be special sessions of GSDI devoted to SDI topics and technical issues. A pre-Conference Tutorial is also being planned that will provide a good exposition to Standards, SDI Technologies and Applications. A large exhibition is also planned and this will provide SDI industries to show-case their products, services and solutions and provide opportunity to link with the surveying industry.

At Cairo, GSDI will also conduct its other administrative and technical business to make the GSDI Association more strong and professional. We will use the opportunity to network with Egyptian professionals. At the same time, we look forward to a fruitful and long-lasting partnership with FIG and hope that we could network in the coming years also.

Cairo is a fascinating place and is the place where the perspective of land, surveying and precision geometry has led to some of the best marvels of history. Trailing history to see the pyramids and the history of pharaohs will be as interesting as the technical sessions. The Egyptian Survey Authority and the Egyptian Committee for Surveying and Mapping (ECSM), the local agencies for the joint Conference, are gearing up for making the joint Conference a success. ESA hope to bring focus on SDI as it is embarking on the use of modern tools and techniques and is also considering an SDI. Cairo, therefore, will offer the best backdrop for the GSDI-8.

On behalf of the GSDI Association, and as its President, I urge one and all to plan to be in Cairo during April, 2005 and make best use of this joint opportunity that would be available.

Looking forward to Cairo and GSDI-8.

Dr. Mukund Rao

President, Global Spatial Data Infrastructure Association (GSDI)

Organising Committee

The local organizing committee is led by a steering committee appointed by the Minister of the Water Resources & Irrigation Ministry. The steering committee is in charge of the arrangements in Egypt and assisted by six sub-committees: Finance and Fund Raising; Technical Tours and Accommodation; Publications and Documentation; Exhibition; Technical Services, Venue and Media; and Scientific Committee. The permanent offices of FIG and GSDI are supporting the organizing committee in all aspects.

Steering Committee

- Dr. Eng. Ahmed Fouad El-Sheikh (Chairman of the LOC and President of the ECSM), Eng. M. Hisham Nasr (Chairman of ESA and Vice Chair of the LOC), Dr. Dalal Alnaggar (Conference Coordinator), Dr. Abdelhadi Abdelaal, Dr. Ahmed Shaker, Dr. M. Mostafa Radwan, Dr. Mahmoud Elnograshy, Dr. Mohsen Badawy, Dr. Shawky Elghazaly, Eng. Hosam Nagy, Eng. M. Mosaad Ibraheim, Eng. Mahmoud Youssif, Eng. Reda Abdelrhman, Dr. Alan R. Stevens, GSDI, and Markku Villikka, FIG.

Sub Committees

- *Finance and Fund Raising*: Eng. M. Hisham Nasr and Dr. Dalal Alnaggar
- *Registration*: Conference Secretariat
- *Technical Tours and Accommodation*: Dr. Mohsen Badawy and Eng. M. Reda Abdelrhman
- *Publications and Documentation*: Dr. Mahmoud Elnograshy and Eng. Mohamed Youssif
- *Exhibition*: Dr. Ahmed Shaker and Eng. Ismaeil El-Shahhat
- *Technical Services, Venue & Media*: Dr. Dalal Alnaggar and Eng. Hosam Nagy.
- *Scientific Committee*: Dr. Abdelhadi Abdelaal, Dr. Ahmed Ismaeil Khalifa, Dr. Ahmed Shaker, Dr. M. Mostafa Radwan, Dr. Shawky Elghazaly and Dr. Youssif Abdel-Aziz

About Organisers



ECSM is a non-governmental organisation whose members are academics from universities and professionals from private sector companies and seniors from governmental bodies. These members have the highest experience in the field of geographic information, geodesy, astronomy, and surveying and information technology. This committee is taking care of the researches relating to surveying, mapping, geographic information system, land information system regarding problems facing society, geographic information, publishing technical information, arranging scientific conferences and publishing the new researches, new applications and methodologies in the mentioned fields to all Egyptian engineers.



ESA was established in 1898 to take care of the surveying and mapping in Egypt, but nowadays it works in many different fields relating to the survey. It consists of main sectors (cadastre, topography, geodesy, and printing) ESA is the sole organization, which takes care of surveying, geodesy, and topographic mapping production, cadastre, determination of the administrative boundaries, printing maps & publications, geodetic controls, and Atlases. ESA is also building geographic information systems for the governmental organization, authorities and ministries.



FIG is the only international organisation representing all surveying disciplines (cadastre and land management, spatial information management, positioning and measurement, hydrography, engineering survey, spatial planning, evaluation and real estate management and construction economics and management). It has member associations and other members in more than 110 countries representing more than 230,000 surveying professionals.



GSDI supports ready global access to geographic information. This is achieved through the coordinated actions of nations and organisations 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. Over 50 nations have participated in previous GSDI conferences.

Conference Programme – Friday 15 & Saturday 16 April

Friday, 15 April

09:00–17:00	Babylon I	Babylon II	
	FIG Council Meeting by invitation only	GSDI Executive Committee by invitation only	

Saturday, 16 April

08:00–	Registration		
09:00–17:00 Nefertiti	FIG ACCO Meeting by invitation only		
09:00–17:30 Babylon	GSDI Board Meeting by invitation only		
09:00–17:30	Blue Nile	Morgana	White Nile
	Pre-conference Workshop 1 – Standards Workshop – Standards into Action	Pre-conference Workshop 2 – Virtual Academy and the Surveying/Geoinformatics Community	Pre-conference Workshop 3 – History of Surveying (09:00–15:30)
10:30–11:00	Coffee break		
12:30–14:00 Teeba	Lunch		
15:30–16:00	Coffee break		
16:00–18:30 White Nile	Pre-conference Workshop 4 – Mobile Mapping Technology		
16:00–19:00 Kahramana	Pre-conference Workshop 7 – e-Government for e-Citizens		

Technical Programme

09:00–12:30 Blue Nile	Pre-conference Workshop 1 – Standards Workshop – Standards into Action
	<p>WSS 1 Standards Workshop – Part I – Standards and How They Can Contribute to SDI Commission: FIG, GSDI and ISO TC211</p> <p>Advancing SDIs – The Role of Standards (9:00–9:30) Chair: Iain Greenway, FIG</p> <p>Opening will be given by Iain Greenway on the subjects to be covered. Each speaker will then give a high level overview as to why standards are a critical subject. Presentations by:</p> <ul style="list-style-type: none"> • FIG, Iain Greenway • SDI, Doug Nebert • ISO, Olaf Ostensen • OGC, Sam Bacharach <p>Making Sense of Standards (9:45–11:45 incl. coffee break) Chair: Sam Bacharach, OGC</p> <p><i>A discussion of key SDI standards and how organizations can and should use them to build out local, regional and global SDI.</i></p> <p>A discussion of major standards being applied to address improved data sharing and enhanced decision-making. This will include several short standards vignettes that reinforce the application of standards and best practices to meet a range of needs. Presentations by:</p> <ul style="list-style-type: none"> • GML – Clemens Portele • Metadata (ISO 19115 etc) – Dave Danko • Development of Common Geospatial Data Standards – Doug Nebert <p>Filling the Gaps (11:45–12:30) Chair: Henry Tom, ISO TC211</p> <p><i>A discussion of plans and work in progress to address urgent challenges being identified by the community, and what more is needed.</i></p> <p>The ultimate goal is to have this panel be fully interactive and driven by questions from the audience. Panel to include:</p> <ul style="list-style-type: none"> • Olaf Ostensen, Chair, ISO/TC211 • Iain Greenway, Chair, ISO/TC211 Focus Group on Data Providers • Doug Nebert, FGDC/GSDI • Sam Bacharach, OGC • Dave Danko, ESRI

Conference Programme – Saturday, 16 April

09:00–10:30 Morgana	<p>Pre-conference Workshop 2: Virtual Academy and the Surveying/Geoinformatics Community</p> <p>WSVA 1 – Learning Theory Commission: FIG 2 and GSDI Chair: Prof. Dr. Esben Munk Sørensen, Denmark</p> <p>Learning by doing – Theoretical studies and e-learning – Student-guided learning processes – Problem based learning – Testing skills and individual theoretical knowledge through e-procedures</p> <p>WSVA1.1 Henrik Haggrén (Finland) and Esben Munk Sørensen (Denmark): The Role of FIG in Virtual Academy- Lessons Learned</p> <p>WSVA1.2 Leonhard Dietze and Hartmut Müller (Germany) and Klaus Böhm (USA): Graphical Interactive e-Assessment in Surveying</p> <p>WSVA1.3 Bela Markus (Hungary): Learning Pyramids</p>
09:00–10:30 White Nile	<p>Pre-conference Workshop 3: History of Surveying</p> <p>WSHS 1 – History of Technology Commission: FIG History Chair: Jan de Graeve, Belgium</p> <p>WSHS1.1 Ken Allred (Canada): Survey Art – An Interesting Subject</p> <p>WSHS1.2 David A Wallis (United Kingdom): History of Angle Measurement</p> <p>WSHS1.3 Dieter Lelgemann (Germany): Alexandria in Egypt, the Native Town of the Natural Sciences</p>
11:00–12:30 Blue Nile	<p>Pre-conference Workshop 1: Standards Workshop – Standards into Action</p> <p>See above</p>
11:00–12:30 Morgana	<p>Pre-conference Workshop 2: Virtual Academy and the Surveying/Geoinformatics Community</p> <p>WSVA 2 – General Tools and Technologies for Digital Learning Environments Commission: FIG 2 and GSDI Chair: Prof. Dr. Esben Munk Sørensen, Denmark</p> <p><i>WEB-site – Open source – Video streaming – Conferences – Hypertext documents – Copyright to intellectual products – Facilities – Student portals</i></p> <p>WSVA2.1 Esben Munk Sørensen (Denmark): Technology and Learning Environment in Geomatics – Adaptability in the Global Competitive Environment</p> <p>WSVA2.2 Leos Mervart and Ales Cepek (Czech Republic): Geoinformatics Study at the Czech Technical University in Prague</p>
11:00–12:30 White Nile	<p>Pre-conference Workshop 3: History of Surveying</p> <p>WSHS 2 – Ancient Egypt Commission: FIG History Chair: Jim R. Smith, United Kingdom</p> <p>WSHS2.1 John F. Brock (Australia): Four Surveyors of the Gods: In the XVIII Dynasty of Egypt – New Kingdom c. 1400 B.C.</p> <p>WSHS2.2 Joel Paulson (USA): Surveying in Ancient Egypt</p> <p>WSHS2.3 Jan de Graeve (Belgium): The Belgian Input into the Arc of the 30th Meridian</p>
14:00–15:30 Blue Nile	<p>Pre-conference Workshop 1: Standards Workshop – Standards into Action</p> <p>WSS 2 – Standards Workshop – Part II – Taking the Step to Implementation Commission: FIG, GSDI and ISO TC211</p> <p>Implementing Standards to Resolve SDI Issues (14:00–16:00) Chair: Doug Nebert, FGDC/GSDI</p> <p>Detailed presentations illustrating the integration of standards, specifications and related SDI best practices. This module will also include a discussion of how standards are being positioned within the</p>

Conference Programme – Saturday, 16 April

14:00–15:30 Blue Nile (continued)	<p>context of local, national and regional policy. The goal is to provide some real experience with people from operational entities using standards in SDI development and operations. Presentations by:</p> <ul style="list-style-type: none"> INSPIRE – Stephen Peedell SDI at the sub-national level in Spain – Michael Gould / Jordi Guimet The usage of OGC standards – Sam Bacharach <p>Background paper: Iain Greenway (Ireland): Standards – Are They Relevant in a Surveyor's World?</p> <p>Taking Action – Key Resources and Players for Advancing Implementation of Standards (16:00–17:30)</p> <p>Chair: Michael Gould</p> <p><i>Key resources and players for advancing implementation of standards.</i></p> <p>The aim is to give examples of good reference manuals and other tools that people can find on the web. Michael Gould, as the moderator will give several examples like books, URLs, open source software, special curricula that may help people in getting started. Presentations by:</p> <ul style="list-style-type: none"> Textbooks and the like – Michael Gould GSDI Cook book – Doug Nebert ISO/TC211 resources – Henry Tom OGC material/ test beds – Sam Bacharach Broader standards initiatives (SOAP etc) – Sam Bacharach <p>Followed by open discussion as to what more is needed</p> <p>Wrap up</p> <p>Closing</p>
14:00–15:30 Morgana	<p>Pre-conference Workshop 2: Virtual Academy and the Surveying/Geoinformatics Community</p> <p>WSVA 3 – Specific Tools, Sites and Procedures for e-Learning Commission: FIG 2 and GSDI Chair: Prof. Dr. Esben Munk Sørensen, Denmark</p> <p><i>Surveying data processing – Fieldwork/laboratories – Spatial data libraries – Knowledge base for e-land administration</i></p> <p>WSVA3.1 Moustafa A. Baraka (Egypt) Geoinformatics e-Learning in Egypt</p> <p>WSVA3.2 Venkateran Ravichandran (India): e-Learning or Virtual Learning Through VSAT</p> <p>WSVA3.3 Esben Norby Clemens (Denmark): Spatial Data Libraries at University – An e-Learning Infrastructure</p>
14:00–15:30 White Nile	<p>Pre-conference Workshop 3: History of Surveying</p> <p>WSHS 3 – Arc of the 30th Meridian Commission: FIG History Chair: Mr. David A. Wallis, United Kingdom</p> <p>WSHS3.1 Jim Smith (United Kingdom): The Arc of the 30th Meridian</p> <p>WSHS3.2 Tomasz Zakiewicz (South Africa): The Cape Geodetic Standards and Their Impact on Africa</p> <p>General Discussion</p>
16:00–17:30 Blue Nile	<p>Pre-conference Workshop 1: Standards Workshop – Standards into Action</p> <p>See above</p>
16:00–17:30 Morgana	<p>Pre-conference Workshop 2: Virtual Academy and the Surveying/Geoinformatics Community</p> <p>WSVA 4 – Implementation of Full Documented Digital Learning Environments Commission: FIG 2 and GSDI Chair: Prof. Dr. Esben Munk Sørensen, Denmark</p> <p><i>Developing the organisation – Training the “trainers” and the technical staff at the university – Topdown implementation versus bottom-up</i></p> <p>WSVA4.1 David Forrest, Sarah Cornelius and Andrew Elcock (United Kingdom): Experiences with a Virtual Placement</p>

Conference Programme – Saturday, 16 April

16:00–17:30 Morgana (continued)	<p>WSVA4.2 Volker Schwieger and Thilo Kaufmann (Germany): Teaching Geodata Acquisition – E-Learning Experiences and Sustainability</p> <p>WSVA4.2 Bela Markus (Hungary), Henrik Haggrén (Finland) and Esben Munk Sørensen (Denmark): Further Steps to Be Done</p>
16:00–18:30 White Nile	<p>Pre-conference Workshop 4: Mobile Mapping Technology</p> <p>MMT 1 – Workshop on Mobile Mapping Technology Commission: FIG 5 Co-sponsored by: Applanix Corp. and Intermap Technologies Corp Chair: Prof. Dr. Naser El-Sheimy, Canada</p> <p>MMT1.1 Naser El-Sheimy, The University of Calgary: Introduction to the Workshop</p> <p>MMT1.2 Naser El-Sheimy, The University of Calgary, VISAT – A Digital Mobile Mapping System for Highway Mapping and GIS Applications</p> <p>MMT1.3 Hugh MacKay, Intermap Technologies Corporation: High Accuracy, High Resolution Digital Terrain Information from Airborne Interferometric Radar</p> <p>MMT1.4 Mohamed Mostafa, Applanix Corporation: Applanix Digital Sensor System (DSS): An Overview</p>
16:00–19:00 Kahramana	<p>Pre-conference Workshop 7: e-Government for e-Citizens</p> <p>WSE 1 – Workshop e-Government for e-Citizens Commission: FIG 3 WG3.1 and GSDI Chair: Kari Strande, Norway</p> <p>State of the Art on e-Government Initiatives</p> <p><i>Presentations and demonstrations of cases from various parts of the world. Cases where spatial data distribution and public web access to spatial data are essential. Spatial data as a tool in decision making and as a tool for public participation in decision processes. There will also be presentations from system suppliers.</i></p> <p>Papers:</p> <p>WSE1.1 Olaf Ostensen (Norway): Case from Norway and from Europe</p> <p>WSE1.2 Jes Ryttersgaard and Jens Hollænder (Denmark): Case from Denmark</p> <p>WSE1.3 TBC (from Japan or UNEP): Case from Asia – Disaster Management Information</p> <p>WSE1.4 TBC (South Africa): Case from South Africa – Demographic and Geographic Information at the Municipal Level</p> <p>WSE1.5 Phillip Rudd (Australia): Case from the Northern Territory of Australia – Integrated Land Information System (ILIS)</p> <p>Presentations from ESRI and Intergraph, invited.</p> <p>Round table with discussions, questions, comments from the speakers and other participants</p> <p>Networking</p> <p><i>Presentation of ongoing and future relevant programmes of interest from an e-Government perspective (INSPIRE, GMES, IST, European Research Framework program, GSDI and others. Focus on the next call from e-Content Pluss</i></p> <p>Discussions on potential participation in Research and Development programmes.</p>

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Conference Programme – Sunday, 17 April

Sunday, 17 April									
08:00–	Registration								
08:00–13:00 Babylon	ISCGM Annual Meeting ISCGM members, by invitation only								
09:00–13:00 Blue Nile and White Nile	FIG General Assembly – First Session Open to FIG members and to observers								
09:00–16:30 Teeba	ESRI Seminar – GIS: The Business of National Mapping								
9:00–16:30 Nefertiti	An Intergraph vision, technology and implementation seminar								
09:00–10:50	GSDI Committee Meetings Open to GSDI members and to observers								
	Suite 1	Suite 2	Suite 3						
	Convention Planning	Legal and Economics	Technical						
10:30–11:00	Coffee break								
11:00–12:50	GSDI Committee Meetings (continued) Open to GSDI members and to observers								
	Suite 1	Suite 2	Suite 3						
	Sponsored Projects	Membership	Communica- tions						
12:30–14:00 Le Grill	Lunch								
13:00–16:30 Babylon	GSDI Council Meeting GSDI Council members, by invitation only								
14:00–16:30	FIG Commission Meetings Open for commission delegates and to observers								
	Suite 1	Suite 2	Osiris	Suite 5	Suite 3	Isis	Suite 4	FIG Office	TBC
	Comm. 1	Comm. 2	Comm. 3	Comm. 5	Comm. 6	Comm. 7	Comm. 8	Comm. 9	Comm. 10
16:30–17:00	Coffee break								
17:00–19:00 Cleopatra Ball Room (Blue and White Nile, Morgana)	Opening Ceremony (preliminary)								
	Welcome by the Local Organising Committee								
	Cultural programme								
	Welcome greeting of Minister of Water Resources and Irrigation, Prof. Dr. Mahmud Abu-Zeid								
	Welcome address of the Prime Minister, His Excellency, Ahmed Nazif								
	Welcome address of the representative of the Arab League (invited)								
	Welcome address of Dr. Mukund Rao, President of GSDI								
Prof. Holger Magel, President of FIG: From Pharaohs to Geoinformatics – Shaping the Change Opening of the Conference									
19:00–20:30 Pool Area at the Semiramis Hotel	Welcome Reception								



WELCOME TO EGYPTIAN NIGHT – FIG FOUNDATION DINNER

A joint Egyptian Night and the FIG Foundation Dinner will be arranged on Monday evening on the 18th April 2005 starting at 19:00. The evening will include traditional Egyptian dinner with entertainment (traditional Egyptian music and dance). Part of the fee will go to the FIG Foundation to support young surveyors and geomatics in their research projects.

Fee: 60 EUR

Co-sponsored by ESRI.

Conference Programme – Monday, 18 April

Monday, 18 April						
08:00–17:30	Registration					
09:00–10:30 Blue Nile and White Nile	Plenary Session 1 – From the Pharaohs to Geoinformatics Dr. Ismail Serageldin, Director of Bibliotheca Alexandria, (BA) Mr. Jack Dangermond, President of the Environmental Systems Research Institute (ESRI): Bridging the Gap between Geomatics and Surveying Ms. Preetha Pulusani, President, Intergraph Mapping and Geospatial Solutions: Making Smart Decision					
10:30 Morgana and Kahramana	Opening of the exhibition					
10:30–17:30 Morgana and Kahramana	Exhibition					
10:30–11:00	Coffee break					
11:00–12:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 1 – SDI and Cadastre Commission: FIG 7 and GSDI	TS 2 – Spatial Portals and e-Government Commission: GSDI and FIG 3	TS 3 – GNSS I Commission: FIG 5	Media Conference	TS 4 – NSDI Commission: FIG 3 and GSDI	TS 5 – Prepared to the Future I Commission: FIG 1 and 2
11:00–12:30 Suite 1	FIG Standards Network Commission: FIG by invitation only					
12:30–14:00	Lunch					
13:30–15:30 Suite 5	AFREF Steering Committee Meeting by invitation only					
14:00–15:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 6 – 3D Cadastre Commission: FIG 7 and GSDI	TS 7 – SDI and Web Services Commission: GSDI and FIG 3	TS 8 – GNSS II Commission: FIG 5	TS 9 – Applied SIM and SDI Commission: FIG 3 and GSDI	Round table – to be confirmed	TS 10 – Prepared to the Future II Commission: FIG 1 and 2
15.30–16:00	Coffee break					
16:00–17:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 11 – Cadastral Modelling Commission: FIG 7 and GSDI	TS 12 – Development of SDI Capacity Commission: GSDI and FIG 3 and 8	TS 13 – Reference Frame Commission: FIG 5	Round table – Surveying and GIS Education in Africa and the Arab Countries	TS 14 – SIM and Quality Commission: FIG 3 and GSDI	TS 15 – Valuation and Real Estate Management I Commission: FIG 9
16:00–16:50 Suite 1	GSDI Meeting – Global Registries and Portals Roundtable					
16:00–18:00 Suite 2	Students Meeting Informal Meeting for all students attending the conference					
16:00–17:30 Suite 4	ISO Standards Drafting Group Commission: FIG and ISO by invitation only					
19:00– Al Ezba Restaurant	Egyptian Evening / FIG Foundation Dinner					

Conference Programme – Monday, 18 April

Technical Programme	
09:00–10:30 Blue Nile and White Nile	<p>Plenary Session 1: From the Pharaohs to Geoinformatics</p> <p>Chair: Prof. Dr.-Ing. Holger Magel, President of FIG Rapporteur: Prof. Dr. Mostafa Radwan, The Netherlands</p> <p>PS1.1 Dr. Ismail Serageldin, Director of Bibliotheca Alexandria, (BA)</p> <p>PS1.2 Mr. Jack Dangermond, President of the Environmental Systems Research Institute (ESRI): Bridging the Gap between Geomatics and Surveying</p> <p>PS1.3 Ms. Preetha Pulusani, President, Intergraph Mapping and Geospatial Solutions: Making Smart Decisions</p>
11:00–12:30 Blue Nile	<p>TS 1: SDI and Cadastre</p> <p>Commission: FIG 7 and GSDI Chair: Mr. András Osskó, Hungary Rapporteur: Mr. Francis Gabele, Belgium</p> <p><i>Papers</i></p> <p>TS1.1 Ian Williamson and Abbas Rajabifard (Australia): Land Administration and Spatial Data Infrastructures</p> <p>TS1.2 Stig Enemark (Denmark) and John. R. Parker (Australia): The Development of Land Information Policies in the Americas</p> <p>TS1.3 Arbind Man Tuladhar and Mostafa Radwan (The Netherlands), Fatma Abdel Kader and Samir El-Ruby (Egypt): Federated Data Model to Improve Accessibility of Distributed Cadastral Databases in Land Administration</p> <p>TS1.4 Paul van der Molen (The Netherlands): Authentic Registers and Good Governance</p> <p>TS1.5 Eugene C. Onyeka (Nigeria): Multipurpose Cadastre: An Under-utilized NGDI Dataset</p> <p><i>Posters (short presentations)</i></p> <p>TS1.6 Momath Ndiaye (Senegal): Case Studies in SDI Components (Geodetic Datum, Data Transformations, Cadastre, Planning etc.)</p>
11:00–12:30 White Nile	<p>TS 2: Spatial Portals and e-Government</p> <p>Commission: GSDI and FIG 3 Chair: Prof. Dr. Mostafa Baraka, Egypt Rapporteur: Ms. Kari Strande, Norway</p> <p>TS2.1 Jeanne Foust (USA), Winnie S. M. Tang (Hong Kong SAR, China) and Jan Selwood (Japan): Evolving Infrastructure: Growth and Evolution of Spatial Portals</p> <p>TS2.2 Joep Crompvoets, Arnold Bregt, Floris de Bree, Pepijn van Oort, Bastiaan van Loenen (The Netherlands), Abbas Rajabifard and Ian Williamson (Australia): Worldwide (Status, Development and) Impact Assessment of Geoportals</p> <p>TS2.3 Mostafa Radwan (The Netherlands), Yaser Bishr (USA), Badr Emara, Alaa Saleh and Rania Sabrah (Egypt): Online Cadastre Portal Services in the Framework of e-Government to Support Real State Industry in Egypt</p> <p>TS2.4 Sohir M. Hussein (Egypt): The Role of ESA in Building the Egyptian Spatial Data Infrastructure (ESDI) Towards the Electronic Government (E-gov.)</p> <p>TS2.5 Tomaž Petek (Slovenia): Spatial Information System for Good Governance in Slovenia</p>
11:00–12:30 Babylon	<p>TS 3: GNSS I</p> <p>Commission: FIG 5 Chair: Prof. Dr. Naser El-Sheimy, Canada Rapporteur: Dr. Mohamed El-Maghraby, Egypt</p> <p>TS3.1 Bruno Razza (Italy): Recent Developments in the Sector of Navigation Satellite System Reference Stations (GNSS) and Possible Links with the Typical Surveying Measurements Carried Out by the Surveyors</p> <p>TS3.2 Volker Schwieger and Andreas Gläser (Germany): Possibilities of Low-Cost GPS-Technology for Precise Geodetic Applications</p> <p>TS3.3 Tayeb Tachallait, El Hassan Benaïm et Lahcen Bahi (Maroc): Developpement d'Une Nouvelle Methode de Traitement des Observations GPS</p>

Conference Programme – Monday, 18 April

11:00–12:30 Babylon (continued)	<p>TS3.4 Y. Al Marzooqi, H. Fashir and Tarig Babiker (United Arab Emirates): Establishment of Dubai Virtual Reference System (DVRS) National GPS-RTK Network</p> <p>TS3.5 Jad Jarroush, Ron Adler and Marwan Zeibak (Israel): Cadastre Surveys with Real Time Kinematic GPS (RTK) as a Basis for Future Survey Regulations</p> <p>TS3.6 Yang, Chul Soo (Republic of Korea): Updating and Re-establishment of Cadastral Control Points in Korea by Using GPS Observations</p>
11:00–12:30 Osiris	<p>TS 4: NSDI</p> <p>Commission: FIG 3 and GSDI Chair: Dr. Mohsen Badawy, Egypt Rapporteur: Dr. Chryssy Potsiou, Greece</p> <p><i>Papers:</i></p> <p>TS4.1 Gábor Remetey-Fülöpp (Hungary): Paving the Way for the Implementation of the NSDI in NGO-Government Partnership</p> <p>TS4.2 Gülgün Özkan, S. Savas Durduran, Ali Erdi and Bilal Girgin (Turkey): Problems and Solutions in Integration of Cadastral Data to Geographical Information System (GIS) in Turkey</p> <p>TS4.3 Aymen A. Solyman (Kingdom of Saudi Arabia): Enterprise GIS Solution for Census Operation: A Case Study from Kingdom of Saudi Arabia</p> <p>TS4.4 Hartmut Müller (Germany): Promotion of Local and Regional Spatial Data Infrastructure Development in Germany</p> <p>TS4.5 Lehlohonolo D. Moeti (Lesotho): Spatial Data Infrastructure Development in Lesotho: Overcoming Obstacles</p> <p><i>Posters (short presentations):</i></p> <p>TS4.6 Boualem Chorfa (Algeria): Integration of a Solution GIS Internet-Modular Type for a Collectivity</p>
11:00–12:30 Isis	<p>TS 5: Prepared to the Future I</p> <p>Commission: FIG 1 and 2 Chair: Mr. Klaus Rürup, Germany Rapporteur: Prof. Dr. Bela Markus, Hungary</p> <p>TS5.1 Jennifer Whittal (South Africa) and Michael Barry (Canada): A Framework for Analysing Change Management in Geomatics Development Projects</p> <p>TS5.2 Dietmar Sperling (Germany): Corporate Real Estate Management (CREM)</p> <p>TS5.3 Karl-Werner Schulte, Gisela Schulte-Daxböck, Christoph Holzmann and Matthias Wiffler ((Germany): Internationalisation of Real Estate Education</p> <p>TS5.4 Sara J Wilkinson (Australia): Joint European Masters Awards in Construction Management and Construction Economics: A Positive Step for Surveying Education?</p> <p>TS5.5 Pedro J. Caverio (Spain): The Bologna Declaration: Its Consequences in the Educational and Professional Fields in Spain</p>
14:00–15:30 Blue Nile	<p>TS 6: 3D Cadastre</p> <p>Commission: FIG 7 and GSDI Chair: Eng. Mosaad Ibrahim, Egypt Rapporteur: Mr. Libor Tomandl, Czech Republic</p> <p><i>Papers</i></p> <p>TS6.1. Peter van Oosterom, Hendrik Ploeger and Jantien Stoter (The Netherlands): Analysis of 3D Property Situations in the USA</p> <p>TS6.2. Göran Eriksson (Sweden): A New Multi-Dimensional Information System Introduced in Sweden</p> <p>TS6.3 Uri Shoshani, Moshe Benhamu, Eri Goshen, Saul Denekamp and Roy Bar (Israel): A Multi Layers 3D Cadastre in Israel: A Research and Development Project Recommendation</p> <p>TS6.4 András Osskó (Hungary): Condominium Registration in the Unified Land Registry in Hungary Towards the 3D Registration</p> <p><i>Posters (short presentations)</i></p> <p>TS6.5 Sagi Filin, Yevgeny Kulakov and Yerach Doytscher (Israel): Application of Airborne Laser Technology to 3D Cadastre</p>

Conference Programme – Monday, 18 April

14:00–15:30 Blue Nile (continued)	<p>TS6.6 Christian Clemen, Frank Gielsdorf and Lothar Gründig, (Germany): Reverse Engineering for Generation of 3D-Building-Information-Models Applying Random Variables in Computer Aided Design</p> <p>TS6.7 Mauro Caprioli, Antonio Scarano and Eufemia Tarantino (Italy): Altimetric and Tridimensional Aspects for the Updating of Cadastral Archives</p> <p>TS6.8 Amr H Abd-Elrahman (Egypt): An Integrated Spatial Data Model for Multi-storey Cadastral System</p> <p>TS6.9 Octavian Roman (Romania): 3D Information Systems</p>
14:00–15:30 White Nile	<p>TS 7: SDI and Web Services</p> <p>Commission: GSDI and FIG 3 Chair: Prof. Dr. Mahmoud El-Nokrashy, Egypt Rapporteur: Dr. Szabolcs Mihály, Hungary</p> <p>TS7.1 Jie Jiang, Jun Chen and Gang Han (China P. R.): A Model for Integrating Multi-scale Spatial Data for e-Government and Public Service</p> <p>TS7.2 Mostafa Radwan, Richard Onchaga and J. Morales (The Netherlands): The Design Requirements for Service-oriented Spatial Information Infrastructures</p> <p>TS7.3 Richard Onchaga (The Netherlands): Towards Quality-aware Composition of Geo-services</p> <p>TS7.4 Dhruba Raj Ghimire (Nepal), Ingo Simonis (Germany) and Andreas Wytzisk (The Netherlands): Integration of GRID Approaches into the Geographic Web Service Domain</p> <p>TS7.5 Peter Ibach and Matthias Horbank (Germany): Towards a Global Spatial Data Infrastructure Using Web Services</p> <p>TS7.6 Andreas Donaubaue (Germany): A Multi-Vendor Spatial Data Infrastructure for Local Governments Based on OGC Web Services</p> <p>TS7.7 Liping Di (USA): Development and Implementation of OGC Web Services Specifications for Earth Observation Data</p>
14:00–15:30 Babylon	<p>TS 8: GNSS II</p> <p>Commission: FIG 5 Chair: Mr. Dan Schnurr, United Kingdom Rapporteur: Dr. Mohamed El-Maghraby, Egypt</p> <p><i>Papers</i></p> <p>TS8.1 Joël van Cranenbroeck (Switzerland): A New Total Station Tracking GPS Satellites in a Network RTK Infrastructure Perspective</p> <p>TS8.2 Maurício Roberto Veronez and Paulo César Lima Segantine (Brazil): Proposal of a Regional Model for Reduction of the Systematic Effects of the Ionosphere Through the Sequential Adjustment Method</p> <p>TS8.3 Ismail Sanlioglu and Cevat Inal (Turkey): The Test of Processing Modules of Global Positioning System (GPS) Softwares by Using Products of International GPS Service (IGS)</p> <p>TS8.4 Yahia M Al-Haifi (Yemen): A Proposed Data Screening Filter for Enhancing the Performance of A GPS Single Epoch On-The-Fly Ambiguity Resolution Technique in the Presence of Biased Observables</p> <p>TS8.5 Alain Gaudet and Jean Cedric Landry (France): TERIA: The GNSS Network for France</p> <p>TS8.6 Mohamed M. R. Mostafa (Canada): Precise Airborne GPS Positioning Alternatives for the Aerial Mapping Practice</p> <p><i>Posters (short presentations)</i></p> <p>TS8.7 Mahmoud El-Mewafi (Egypt): A New Approach for Updating of ETM Maps into UTM Maps and Direct UTM Maps from GPS Data</p> <p>TS8.8 Amira A. Al Zarouni, Yousuf A. AlMarzooqi and Adil A. ElTigani (United Arab Emirates): Towards Standardization of Vehicle Tracking Systems</p> <p>TS8.9 Anna Barańska (Poland): Appraisalment of Equalization of Geodetic Observations Quality Applying Values of Defined Invariants Parameters</p> <p>TS8.10 Ertan Gökalp and Yüksel Boz (Turkey): Outlier Detection in GPS Networks with Fuzzy Logic and Conventional Methods</p>

Conference Programme – Monday, 18 April

14:00–15:30 Nefertiti	<p>TS 9: Applied SIM and SDI</p> <p>Commission: FIG 3 and GSDI Chair: Prof. Dr. Shawky El-Ghazaly, Egypt Rapporteur: Dr. Gülgün Özkan, Turkey</p> <p>TS9.1 Chryssy A. Potsiou, P. Zentelis and K. Logothetis (Greece): Greece After the Gold Rush – The Sustainability of the Infrastructure Made for the 2004 Olympic Games</p> <p>TS9.2 Johannes Hotz (Switzerland): Spatial Data Acquisition Software for Professional Surveyors and GIS Data Collectors</p> <p>TS9.3 Gloria del Pilar Vásquez Pérez (Peru): Andean Spatial Data Infrastructure (ASDI)</p> <p>TS9.4 Tho Cac Nguyen and Dang Thi Lien (Vietnam): A Geospatial Database for Vietnam, Laos and Cambodia</p> <p>TS9.5 Iain Greenway (Ireland): Mapping Ireland – The End and Yet The Beginning</p> <p>TS9.6 Tran Nhu Trung (Vietnam) and Don Grant (Australia): Why Copying LIS from a Developed Country Does Not Work for a Developing Country?</p> <p>TS9.7 Ian Corker (United Kingdom) and Charles Young (South Africa): Basic Data Collection Using Satellite Imagery in Somaliland</p> <p>TS9.8 Evangelos Vozikis, Nikolaos Sidiropoulos and George Vozikis (Greece): The Use of Modern Technologies (GPS, GIS and Geodata) for Controlling Olive Tree Pests</p>
14:00–15:30 Isis	<p>TS 10: Prepared to the Future II</p> <p>Commission: FIG 1 and 2 Chair: Prof. Pedro Caverio, Spain Rapporteur: Mr. Yaacoub Saade, Lebanon</p> <p>TS10.1 Piero Panunzi, Guido Moschella and Fiorenzo Guaralda (Italy): Education, Licensing and Access to Market</p> <p>TS10.2 Ian Williamson (Australia): Opportunities for Surveyors in Modern Land Markets</p> <p>TS10.3 Leonie Newnham (Australia): Innovation in Land Management, What Makes It Happen?</p> <p>TS10.4 Arvo Vitikainen (Finland): The Degree Reform in the Department of Surveying, Helsinki University of Technology</p> <p>TS10.5 G. K. (Ken) Allred (Canada): Marketing the Profession – Some Strategies that Work</p> <p>TS10.6 L. S. Majed Baz (Lebanon): Organizing the Professional Organizations and Orders by Using GIS</p>
14:00–15:30 Osiris	<p>Round table</p> <p>To be confirmed.</p>
16:00–17:30 Blue Nile	<p>TS 11: Cadastral Modelling</p> <p>Commission: FIG 7 and GSDI Chair: Prof. Dr. Mostafa Radwan, The Netherlands Rapporteur: Dr. Jantien Stoter, The Netherlands</p> <p><i>Papers</i></p> <p>TS11.1 Christiaan Lemmen, Peter van Oosterom, Jaap Zevenbergen, Wilko Quak and Paul van der Molen (The Netherlands): Further Progress in the Development of the Core Cadastral Domain Model</p> <p>TS11.2 Jerry Johnson (The Netherlands): Cadastre Data Modeling and GIS</p> <p>TS11.3 Kholoud Saad Salama (Egypt): ArcCadastre Implementations within the Middle East</p> <p>TS11.4 Jaap Zevenbergen (The Netherlands) and Erik Stubkjær (Denmark): Real Property Transactions: Challenges of Modeling and Comparing</p> <p><i>Posters (short presentations)</i></p> <p>TS11.5 James Osundwa, Eric Nyadimo and David Siriba (Kenya): Challenges in the Establishment of a National Cadastral Data Model for Kenya – Towards the Creation of a National Spatial Data Infrastructure (NSDI)</p> <p>TS11.6 Shokry Abd-el-Malak Rofail and Ashraf Youssef (Egypt): The Egyptian Unified Cadastral Data Model</p>

Conference Programme – Monday, 18 April

16:00–17:30 Blue Nile (continued)	TS11.7 Ioan Stangu (Romania): The Cadastre – A Cybernetic Approach for 21st Century – Sustainable Development and Environmental Protection This paper has not been presented at the conference.
16:00–17:30 White Nile	<p>TS 12: Development of SDI Capacity</p> <p>Commission: GSDI and FIG 3 and 8 Chair: Dr. Gábor Remetey-Fülöpp, Hungary Rapporteur: Dr. Reinfried Mansberger, Austria</p> <p><i>Papers</i></p> <p>TS12.1 Mathew Warnest, Abbas Rajabifard and Ian Williamson (Australia): A Collaborative Approach to Building National SDI in Federated State Systems: Case Study of Australia. This paper has been presented by Kevin McDougall.</p> <p>TS12.2 Walter T. de Vries and Yola Georgiadou (The Netherlands): GDI Capacity Building in Practice: An Analysis based on Experiences with and in Developing Countries</p> <p>TS12.3 Dora-Ines Rey (Colombia): SDI Capacity Building Model for Developing Countries – Case Study: Colombia</p> <p>TS12.4 Olajide Kufoniyi (Nigeria), Gerrit Huurneman and John Horn (The Netherlands): Human and Institutional Capacity Building in Geoinformatics Through Educational Networking</p> <p><i>Posters (short presentations)</i></p> <p>TS12.5 M. Hesham Nasr, Azza ElSayegh, Soad Fekry, Adel Kassem (Egypt) and M. Mostafa Radwan (The Netherlands): New Strategic Directions in the Egyptian Survey Authority and Impact on the Requirements for Capacity Building – An Example of International Cooperation for Human Resource Development</p> <p>TS12.6 Jaeik Liou (Republic of Korea): Linking Spatial Asset Mapping to Capacity Building Towards Sustainable Community Development</p> <p>TS12.7 Yola Georgiadou (The Netherlands) and Abbas Rajabifard (Australia): Capacity Building for SDI: A Comprehensive Approach for Developing Nations</p>
16:00–17:30 Babylon	<p>TS 13: Reference Frame</p> <p>Commission: FIG 5 Chair: Dr. Michel Kasser, France Rapporteur: Mr. Mikael Lilje, Sweden</p> <p><i>Papers</i></p> <p>TS13.1 Hermann Drewes and Christoph Reigber (Germany): The Global Geodetic Observing System (GGOS) of the International Association of Geodesy – Objectives and Status</p> <p>TS13.2 Richard Wonnacott (South Africa): AFREF: Background and Progress Towards a Unified Reference System for Africa</p> <p>TS13.3 Francisco A. Hansen Albites (Mexico): Geodesy as a Fundamental Data Set in the Mexican SDI (IDEMEX)</p> <p>TS13.4 Muya Kamamia (Kenya): AFREF, Establishment of a Common and Modern African Co-ordinate System</p> <p>TS13.5 Salah Mahmoud (Egypt): Monitoring of Crustal Deformation in Egypt Using GPS Technique in the ITRF Reference Frame</p> <p>TS13.6 Gomaa M. Dawod and Sherine S. Ismail (Egypt): Enhancing the Integrity of the National Geodetic Data Bases in Egypt</p> <p>Panel Discussion</p> <p><i>Posters (short presentations)</i></p> <p>TS13.7 Ehab Nabil Nassif and Nagi Faheem Anton (Egypt): A Unified System of Transformation Parameters for Combining Different Geodetic Networks in Egypt</p> <p>TS13.8 Mohamed Elmaghraby and Atef Fayad (Egypt) and Mohamed El-Habiby (Canada): Investigating the Effect of Neglecting Parts of the EGD Geodetic Height on the Transformation from Helmert 1906 to WGS84</p> <p>TS13.9 Hussein A. AbdElmotaal (Egypt): Comparison of Different Datum Transformation Techniques for Egypt</p>

Conference Programme – Monday, 18 April

16:00–17:30 Babylon (continued)	<p>TS13.10 Maher Mohamed Amin, Saadia Mahmoud El-Fatairy and Raaed Mohamed Hassouna (Egypt): A Precise Geoidal Map of the Southern Part of Egypt by Collocation Toshka Geoid</p> <p>TS13.11 Y. Al Marzooqi, H. Fashir and Syed Iliyas Ahamed (United Arab Emirates): Realization of Dubai Emirate Datum on the Reference Frame 2000</p> <p>TS13.12 Y. Al Marzooqi, H. Fashir and Syed Iliyas Ahamed (United Arab Emirates): Derivation of Datum Transformation Parameters for Dubai Emirate</p> <p>TS13.13 Stephen Djaba (Ghana): Report of the AFREF Workshop and Planning Session on WAFREF at Nairobi, Kenya in October 2004</p>
16:00–17:30 Osiris	<p>TS 14: SIM and Quality</p> <p>Commission: FIG 3 and GSDI Chair: Mr. Robin McLaren, United Kingdom Rapporteur: Dr. Evangelos Vozikis, Greece</p> <p>TS14.1 Ibrahim Habli (Lebanon) and Tim Kelly (United Kingdom): Addressing Quality Requirements in GIS Architectures</p> <p>TS14.2 Hussein M. Abdulmuttalib (United Arab Emirates): Quality Aspects of Monitoring Environmental Variations Using Combined GIS & Remote Sensing Techniques with Emphases on Data Modelling</p> <p>TS14.3 Francis Chigiinge (Zimbabwe): The Balance Between Data Quality and User's Information Needs – Thinking Strategically for Rational Decision-making</p> <p>TS14.4 Carsten Rönsdorf (United Kingdom): Achieving and Maintaining Interoperability of Spatial Data</p> <p>TS14.5 Hans Knoop (Germany): Roadmap as a Further Impulse for Standardisation in Africa by Geoinformation-Standards-ISO-Workshop in Nairobi</p> <p>TS14.6 Ingo Simonis and Adam Sliwinski (Germany): Quality of Service in a Global SDI</p> <p>TS14.7 Jerry Johnson (The Netherlands): Building GIS Data Content</p>
16:00–17:30 Isis	<p>TS 15: Valuation and Real Estate Management I</p> <p>Commission: FIG 9 Chair: Mr. Henning Elmstrøm, Denmark Rapporteur: Dr. Yasser Almanadely, Egypt</p> <p>TS15.1 Simon Adcock (Australia): Addressing Heritage and Contamination Environmental Issue in Valuation/Appraisal Assessments</p> <p>TS15.2 Greg McGill (United Kingdom): The Effects of Taxation on the Use of Land</p> <p>TS15.3 Bayram Uzun and Tahsin Yomralioglu (Turkey): An Alternative Approach to Land Compensation Process to Open Urban Arteries</p> <p>TS15.4 Jose Antonio Pinzón Bermúdez and Beatriz Cecilia Quintero Rincón (Colombia): Land Parcel Tax as Instrument to Fight Against Poverty and Inequality</p> <p>TS15.5 Arvydas Bagdonavicius and Steponas Deveikis (Lithuania): Individual and Mass Valuation – Present and Future Practices</p> <p>TS15.6 Kauko Viitanen (Finland) and Henning Elmstrøm (Denmark): Valuation and the Management of Real Estate in the Future</p>
16:00–17.30 Nefertiti 2	<p>Round table: Surveying and GIS Education in Africa and the Arab Countries</p> <p>Commission: FIG Chair: Prof. Holger Magel, FIG President</p> <p>Round table discussion on surveying and geomatics education in Africa and the Arab countries. Open to all interested, especially academics and university people from these regions.</p>
16:00–16:50 Suite 1	<p>GSDI Meeting: Global Registries and Portals Roundtable</p> <p>Chair: tba.</p> <p>There are many existing data registries and portals around the globe. Many already interoperate and many do not. There are different metadata standards in use, different interfaces for publishing data, searching for data, and accessing data. This round table discussion will result in a sense of whether the GSDI Association should take a leadership role in bringing together existing and new registries, and if so, how we should go about doing so.</p>

Conference Programme – Tuesday, 19 April

Tuesday, 19 April						
08:00–17:30	Registration					
09:00–10:30 Blue Nile and White Nile	Plenary Session 2 – Co-operation between Land Administration and SDI					
	Dr. Paul Munro-Faure, Director, Land Tenure Service, FAO: Global Needs for SDI in Land Administration					
	Dr. Clarissa Augustinus, Chief, Land and Tenure Section, UN-HABITAT: Encouraging the Development of Cross Disciplinary Land Sector Tools to Improve the Security of Tenure of People in Slums					
	Ms. Dorine A. J. Burmanje, Chair of the Board Dutch Cadastre, Land Registry and Mapping Agency, The Netherlands: Spatial Data Infrastructures and Land Administration in Europe					
	Eng. Mohamed Mosaad Ibrahim, Ex-Chairman, The Egyptian Survey Authority, ESA: From Pharaohs to e-Government – The Egyptian Cadastre					
09:30–11:00 Suite 1	FIG Groupe Francophone – Annual Meeting					
09:00–12:30 FIG Office	Joint Board of the Spatial Information Societies by invitation only					
10:30–17:30 Morgana and Kahramana	Exhibition					
10:30–13:00	Technical Tours					
	TT 1 – Egyptian Survey Authority (ESA)	TT 2 – Egyptian GIS Authority (IDSC)	TT 3 – Hydraulic Institute (–17:00)		TT 4 – CAPMS	
10:30–11:00	Coffee break					
11:00–12:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 16 – Web-based Decision Support I Commission: GSDI and FIG 3	TS 17 – The State of the Art in Positioning and Measurement of SDI Commission: FIG 5 and GSDI	TS 18 – Comparative Aspects of Land Administration Systems Commission: FIG 7	TS 19 – Planning in Informal Settlements Commission: FIG 8 and 7	Round table for American SDIs Commission: GSDI	TS 20 – Professional Education I Commission: FIG 2
12:30–14:00	Lunch					
14:00–15:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 21 – Web-based Decision Support II Commission: GSDI and FIG 3	TS 22 – New Measurement Technology and Its Application to Archaeological and Engineering Surveys Commission: FIG 5 and 6	TS 23 – Evolving Land Administration Systems Commission: FIG 7		TS 24 – Planning for Rural and Urban Communities Commission: FIG 8	TS 25 – Professional Education II Commission: FIG 2
14:00–17:30 Nefertiti 2	Arab Union of Surveyors – General Assembly by invitation only					
14:00–15:30 Suite 2	FIG Task Force on Commission Structure open meeting for all interested					
14:00–15:30 Suite 1	Design Standard Data Sets ad-hoc session					
15:30–16:00	Coffee break					
16:00–17:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 26 – Regional SDI's and Thematic SDI's Commission: GSDI and FIG 3	TS 27 – Remote Sensing and Photogrammetry Commission: FIG 5	TS 28 – Business of Land Administration Commission: FIG 7		TS 29 – Approaches in Land Consolidation and Community Regeneration Commission: FIG 8 and 7	TS 30 – Valuation and Real Estate Management II Commission: FIG 9
16:00–17:30 Suite 1	GSDI Meeting – Geographic Data Commons Roundtable					

Conference Programme – Tuesday, 19 April

Technical Programme	
09:00–10:30 Blue Nile and White Nile	<p>Plenary Session 2: Co-operation between Land Administration and SDI</p> <p>Chair: Dr. Mukund Rao, President of GSDI Rapporteur: Prof. Dr. Shawky AlGhazaly, Egypt</p> <p>PS2.1 Dr. Paul Munro-Faure, Director, Land Tenure Service, FAO: Global Needs for SDI in Land Administration</p> <p>PS2.2 Dr. Clarissa Augustinus, Chief, Land and Tenure Section, UN-HABITAT: Encouraging the Development of Cross Disciplinary Land Sector Tools to Improve the Security of Tenure of People in Slums</p> <p>PS2.3 Ms. Dorine A. J. Burmanje, Chair of the Board Dutch Cadastre, Land Registry and Mapping Agency, The Netherlands: Spatial Data Infrastructures and Land Administration in Europe</p> <p>PS2.4 Eng. Mohamed Mosaad Ibrahim, Ex-Chairman, The Egyptian Survey Authority, ESA: From Pharaohs to e-Government – The Egyptian Cadastre</p>
11:00–12:30 Blue Nile	<p>TS 16: Web-based Decision Support</p> <p>Commission: GSDI and FIG 3 Chair: Mr. Mark Reichardt, USA Rapporteur: Dr. Jordi Guimet Perenya, Spain</p> <p>TS16.1 Leslie Cone and Carsten Bjornsson (USA): The National Integrated Land System – A “Field to Fabric” Solution</p> <p>TS16.2 Douglas D. Nebert (USA): Development of Common Geospatial Data Standards</p> <p>TS16.3 Vera Hernández, Wolf Göhring, Angi Voss, (Germany) and Cornelio Hopmann (Nicaragua): Sustainable Decision Support by the use of Multi-Level and Multi-Criteria Spatial Analysis on the Nicaragua Development Gateway</p> <p>TS16.4 Asli Garagon Dogru, Gonul Toz, Haluk Ozener and Onur Gurkan (Turkey): Constructing a Web-based GIS for Earthquake Monitoring in Turkey</p> <p>TS16.5 Marianthi Stefouli, Eleimon Tiligadas and Sotiria Devene (Greece): Use of Earth Observation / Geoscientific Data and Web-GIS Techniques for Water Resources Management of Nestos River Basin</p> <p>TS16.6 Yongping Zhao and Jamal Al-Akroka (Kuwait): Kuwait Geographic Information Metadata Research</p> <p>TS16.7 Lucia Lovison-Golob (United Kingdom): Web Mapping as a Tool for Delivering Near Real Time Information</p> <p>TS16.8 Jorge Gustavo Rocha (Portugal): Geowiki – Enabling Collaborative Maintenance of Spatial Data</p> <p>TS16.9 José Luis Berroterán (Venezuela): Venezuelan Ecological System: An Automated System to Recover Information Related to Ecosystem Properties and Actual Land Use to Base the Governmental Environment Administration</p>
11:00–12:30 White Nile	<p>TS 17: The State of the Art in Positioning and Measurement of SDI</p> <p>Commission: FIG 5 and GSDI Chair: Prof. Dr. Rudolf Staiger, Germany Rapporteur: Mr. Rob Sarib, Australia</p> <p>TS17.1 Ruth Neilan (USA): The Global Geodetic Infrastructure – A Framework for Development</p> <p>TS17.2 Matt Higgins and Chris Rizos (Australia): New GNSS Developments and the Impact on Providers and Users of Spatial Data Infrastructure</p> <p>TS17.3 Naser El-Sheimy (Canada): An Overview of Mobile Mapping Systems</p> <p>TS17.4 Raynold M. Moyo (Zambia): Emerging Practical GNSS Applications and Their Impacts on Socio-Economic Impacts in Zambia and the Sub-region</p> <p>TS17.5 Dan Schnurr (United Kingdom): Cost Effective Technology for Developing Countries Cost Effective Technology for Developing Countries – The Development of a FIG Survey Specification</p>
11:00–12:30 Babylon	<p>TS 18: Comparative Aspects of Land Administration Systems</p> <p>Commission: FIG 7 Chair: Prof. Paul van der Molen, The Netherlands Rapporteur: Ms. Marina Vaskovich, Belarus</p>

Conference Programme – Tuesday, 19 April

11:00–12:30 Babylon (continued)	<p>TS18.1 Daniel Steudler (Switzerland): A Framework for the Evaluation of Land Administration Systems</p> <p>TS18.2 Hendrik D. Ploeger and Bastiaan van Loenen (The Netherlands): Harmonization of Land Registry in Europe</p> <p>TS18.3 Ayse Yavuz (Turkey): A Comparative Analysis of Cadastral Systems in the EU Countries According to Basic Selected Criteria</p> <p>TS18.4 Mia Flores-Bórquez and Richard Grover (United Kingdom): Restitution in Land Markets and Social Exclusion</p> <p>TS18.5 Ashraf Youssef (Egypt): The Strategies of Land Information Management System</p>
11:00–12:30 Nefertiti	<p>TS 19: Planning in Informal Settlements</p> <p>Commission: FIG 8 and 7 Chair: Ms. Jenny Whittal, South Africa Rapporteur: Dr. Diane Dumashie, United Kingdom</p> <p><i>Papers</i></p> <p>TS19.1 Robin McLaren (United Kingdom), David J. Coleman and Selassie Mayunga (Canada): Sustainable Management of Mega Growth in Megacities</p> <p>TS19.2 Wafula Nabutola (Kenya): Affordable Housing and Upgrading Informal Settlements in Kenya</p> <p>TS19.3 Wakuru Magigi (Tanzania): Planning Standards for Urban Land Use Planning for Effective Land Management in Tanzania: An Analytical Framework for its Adoptability in Infrastructure Utility and Facility Provisioning in Informal Settlements</p> <p>TS19.4 Rashid M. Azzan and Said S. Ufuzo (Zanzibar, Tanzania): Urban and Rural Planning: A Challenge for Poor Nations – Zanzibar Experience</p> <p>TS19.5 Ntsebo Putsoa (Lesotho): The Importance of Land Rights on the Impoverished Urban Areas</p> <p>TS19.6 Diane Dumashie (United Kingdom): Spatial Planning and Informal Settlements: Women and Adequate Housing</p> <p><i>Posters (short presentations)</i></p> <p>TS19.7 Alphonse Kessy and Wakuru Magigi (Tanzania): Geographical Information Infrastructure Applications in Urban Land Management in Tanzania: A Strategy to Enhance Communities' Decision Making in Land Regularization Process in Informal Settlements</p> <p>TS19.8 Francis Harvey (USA): Formal Cadastre and Informal Land Tenure: Elasticity and Articulation</p>
11:00–12:30 Isis	<p>TS 20: Professional Education I</p> <p>Commission: FIG 2 Chair: Prof. Dr. Abd Elhady Said, Egypt Rapporteur: Prof. El Hassane Semlali, Morocco</p> <p>TS20.1 Indra D. Wijayratne (USA): A Bachelor Degree Program in Surveying/Geomatics Offered to Place-bound Students: Measuring Success</p> <p>TS20.2 Ali Erdi and S. Savas Durduran (Turkey): Institutional Policies on Geographical Information System (GIS) Studies in Turkey</p> <p>TS20.3 E. E. Duncan (Ghana): Geomatics Education at the Western University College of KNUST, Ghana</p> <p>TS20.4 Maria Lodin (Sweden): Canadian and Swedish Academic Experiences: A Compare and Contrast</p> <p>TS20.5 Abou-El-Ela, M. a, Darwish, A. a, and Salem, M. a (Egypt): GIS Education in Egypt: The ITI Experience</p>
11:00–12:30 Osiris	<p>Round table for American SDIs</p> <p>Commission: GSDI Moderator: Ltc. Rodrigo Barriga, Instituto Geografico Militar (IGM) Chile Rapporteur: Ms. Margaret Buck, USA</p> <p>Our goal is to share success stories, issues and general information on SDI development with neighbors in a region and across regions. We believe this is the way we all grow and improve locally, nationally, and regionally. One way to share information is through a series of round-table sessions on a regional</p>

Conference Programme – Tuesday, 19 April

11:00–12:30 Osiris (continued)	<p>basis where we each can share our experiences with others and generate interaction with our neighbors.</p> <p><i>Panel topics</i></p> <p>We ask the panelists to address one or more of the following questions:</p> <ul style="list-style-type: none"> • What is the easiest issue to address in any SDI development? • What is the most difficult issue to address in SDI development? • Which one do you recommend addressing first in SDI development? • Give brief examples of these from your own experiences/observations? <p>Panelists</p> <ul style="list-style-type: none"> • María-Loreto Advis N, Chile • Francisco A. Hansen Albites, Mexico • Dora-Ines Rey, Colombia • Tatiana Delgado Fernández, Cuba • Carlos Gabriel Asato, Argentina • Gloria del Pilar Vásquez Pérez, Peru/Andean SDI (ASDI)
14:00–15:30 Blue Nile	<p>TS 21: SDI Data Issues I</p> <p>Commission: GSDI and FIG 3 Chair: Mr. Terry Keating, USA Rapporteur: Mr. Jamal Al-Akroka, Kuwait</p> <p>TS21.1 Keith Murray, Bern Munday and Ian Bush (United Kingdom): Enabling Information Integrity within SDI's – The Digital National Framework Concept</p> <p>TS21.2 Julián Escallón (Colombia): GeoSemantica as a Technological Platform to Develop the Colombian Spatial Data Infrastructure</p> <p>TS21.3 Aegidius P. Kap (Netherlands): Harmonization of Spatial Information on Utilities in The Netherlands</p> <p>TS21.4 Szabolcs Mihály (Hungary): Space Referencing Core Data for GI in Hungary</p> <p>TS21.5 Nagy G. R. Yakoub and Ahmed Negm (Egypt): Building an Automatic Raster to Vector Digitizing Application with GIS Capabilities</p>
14:00–15:30 White Nile	<p>TS 22: New Measurement Technology and Its Application to Archaeological and Engineering Surveys</p> <p>Commission: FIG 5 and 6 Chair: Prof. Dr. Yousef Abd Elaziz, Egypt Rapporteur: Prof. Dr. Stathis Stiros, Greece</p> <p><i>Papers</i></p> <p>TS22.1 Michael Scherer (Germany): Architectural Surveying and Visualization Using "Photo-Tacheometry"</p> <p>TS22.2 Ramadan H. Abdel-Maguid, Yasser El-Manadily and Adel H. El-Shazly (Egypt): A Rapid and Cost Effective Technique for Planimetric Mapping of Small Villages in Developing Countries</p> <p>TS22.3 Cameron Ellum and Naser El-Sheimy (Canada): The Common Adjustment of GPS and Photogrammetric Measurements</p> <p>TS22.4 Vassilis Gikas (Greece): Railway Geodesy: The Benefit of Using a Multi-discipline Approach for the Assessment of Track Alignments During Construction</p> <p>TS22.5 Guido Heinz and Hartmut Müller (Germany): Surveying of Pharaohs in the 21st Century</p> <p><i>Posters (short presentations)</i></p> <p>TS22.6 Ragab Khalil (Egypt): New Compact Method for Testing EDM Instruments</p> <p>TS22.7 Noemi Emanuela Cazzaniga, Livio Pinto, Gianfranco Forlani and Paolo Abruzzi (Italy): Monitoring Oscillations of Slender Structures with GPS and Accelerometers</p> <p>TS22.8 Alojz Kopáček, Peter Kyrinovic and Vanda Kadlecíková (Slovakia): Laboratory Tests of Robot Stations</p> <p>TS22.9 Halim Setan, Mohd Sharuddin Ibrahim and Zulkepli Majid (Malaysia): Precise Measurement and 3D Modeling for Medical and Industrial Applications: Verification Tests</p> <p>TS22.10 Jan Hardos (Slovakia): Visualization and Computer Animation of 3D Basic Map of Highway</p>

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14:00–15:30 White Nile (continued)	<p>TS22.11 S. Savac Durduran, Ali Erdi, Levent Zoroglu and Mehmet Tekocak (Turkey): Works on the Geographical Information System (GIS) in the Ancient Town Kelenderis in Turkey</p> <p>TS22.12 Madiha A. A. Farag, Keith M. Miller, Bheshem Ramlal and Claudius K. Fergus (West Indies): Use of GIS in an Archaeological Study of the Island of St Kitts</p> <p>TS22.13 Samina Sultana, Malik Fida A. Khan and Chitta Ranjan Guptta (Bangladesh): Role of GIS in Presenting and Developing Strategy for Conservation of Historical Sites</p>
14:00–15:30 Babylon	<p>TS 23: Evolving Land Administration Systems</p> <p>Commission: FIG 7 Chair: Eng. Hisham Nasr, Egypt Rapporteur: Mr. Christiaan Lemmen, The Netherlands</p> <p>TS23.1 Michael Barry and Khaleel Khan (Canada): Law and Policy Implications of Multimedia Land Records: The Talking Titler Project</p> <p>TS23.2 Felicia Olufunmilayo Akinyemi (Germany): Towards a Spatial Information Model for Poverty Reduction and Management in Sub-Saharan Africa</p> <p>TS23.3 Kuda Mushati and David Njike (Zimbabwe): Real Estate Investment and Development in an Evolving System of Tenure in Zimbabwe</p> <p>TS23.4 Bo Lauri (Sweden): Land and Real Estate Registration Project in the Kyrgyz Republic</p> <p>TS23.5 Francis Chitsike (Zimbabwe): An Investigation into the Efficiency and Effectiveness of Institutions of Land Registration in Zimbabwe</p> <p>TS23.6 Maria Contoman (Romania): Data Base Organization in Land Evaluation – An Essential Element for Achieving the General Cadastre in Romania This paper has not been presented in the conference.</p>
14:00–15:30 Osiris	<p>TS 24: Planning for Rural and Urban Communities</p> <p>Commission: FIG 8 Chair: Mr. Rainer Müller-Jökel, Germany Rapporteur: Dr. Diane Dumashie, United Kingdom</p> <p><i>Papers</i></p> <p>TS24.1 Mette Kragh (Denmark): New Danish Regional Development Plans – an Effort of Combining Economy and Spatial Aspects for Urban and Rural Areas</p> <p>TS24.2 Michael Klaus (Germany): Sustainable Land Management in Rural Areas – A New Approach for Implementation</p> <p>TS24.3 Rolf Meindl and Holger Magel (Germany): Agenda 21 – The Challenge to Sustainable Local Authorities: Conclusions of a Countrywide Evaluation in Bavaria</p> <p>TS24.4 Violeta Puscasu (Romania): Physical Planning in Periphery Systems – Effects on the Forestry System in the Eastern Carpathians</p> <p>TS24.5 Madan Mohan (India): Urban Land Cover/Land Use Change Detection in National Capital Region (NCR) Delhi: A Study of Faridabad District</p> <p>TS24.6 David Mitchell (Australia): Property Rights – Exploring Their Role in Natural Resource Management</p> <p>TS24.7 Yaacoub Saade (Lebanon): The Management of the Urban Extensions in Conserving of the Main Aspects</p> <p><i>Posters (short presentations)</i></p> <p>TS24.8 Yifter Fikru, Haile Mitiku (Ethiopia), Arnold Bregt and Gerrit Epema (The Netherlands): Using Local Capacity for Improved Land Resources Planning: A Case from Ethiopia</p> <p>TS24.9 Efi Dimopoulou, Charalambos Ioannidis, Stella Kaimaki, Sofia Soile and Katerina Adam (Greece): Multi-Disciplinary Approach for the Environmental Analysis of Surface Waters in a Large-scale Development</p> <p>TS24.10 Kenneth Peprah (Ghana): Land Use and Land Resource Management at Gyamfiase-Adenya, Ghana</p>

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14:00–15:30 Isis	<p>TS 25: Professional Education II</p> <p>Commission: FIG 2 Chair: Prof. Dr. Mohamed Rashad, Egypt Rapporteur: Prof. Dr. Esben Munk Sørensen, Denmark</p> <p>TS25.1 Liping Di and Meixia Deng (USA): NEHEA and GeoBrain – An Organization and System for Data-Intensive Earth System Science Education and Research at Colleges Around the World</p> <p>TS25.2 Gert Steinkellner and Erwin Heine (Austria): European Education in Geodetic Engineering, Cartography and Surveying (EEGECS) – Thematic Network for Higher Education</p> <p>TS25.3 El Hassane Semlali and Driss Tahiri (Morocco): Issues and Challenges of the Surveying Engineering Education in Morocco: Present and Future</p> <p>TS25.4 Charalabos Ioannidis and Andreas Georgopoulos (Greece): Basic Principles for Developing Capacity Building in Geometric Recording of Cultural Heritage</p>
14:00–15:30 Suite 1	<p>Ad-hoc Session: Design Standard Data Sets</p> <p>Commission: GSDI Chair: Mr. Douglas D. Nebert, USA</p> <p>The establishment of national base data themes, variously known as fundamental, foundation, or framework data has been described as a practice in many countries as a central part of creating a National SDI. Discussion of current approaches and recommendations for a systematic approach to modeling and standardizing common data content for exchange in an SDI. Topics of interest include definition of 'base' data, data modeling approach, transfer encoding, web services.</p>
16:00–17:30 Blue Nile	<p>TS 26: Regional SDI's and Thematic SDI's</p> <p>Commission: GSDI and FIG 3 Chair: Mr. Jes Ryttersgaard, Denmark Rapporteur: Dr. Arbind Tuladbar, The Netherlands</p> <p>Papers</p> <p>TS26.1 J. Guimet Perenya (Spain): To Use IDEC (SDI) Philosophy to Modify Strategies and Plans: Analysis of Concrete Cases in Catalonia</p> <p>TS26.2 Rodrigo Barriga and Alvaro Medina (Chile): Territorial Information Management in Chile</p> <p>TS26.3 Kombo Mwero (Kenya): Fundamental Concepts of Spatial Data Infrastructure (SDI) and the Initiatives Taken by Africa Through the United Nations Economic Commission of Africa (UN-ECA) Under the Commission of Development Information (CODI) Framework</p> <p>TS26.4 Jaap Zevenbergen (The Netherlands): SDI Development and Law-based Special Recordings: The Case of Soil Pollution Sites in the Netherlands</p> <p>TS26.5 Chris Holmes and Allan Doyle (USA) and Mick Wilson (Kenya): Towards a Free and Open Source (FOSS) Spatial Data Infrastructure</p> <p>Posters (short presentations)</p> <p>TS26.6 Abdel Razek Ahmed Abdel Mageed, Duaa Mostafa Salem and Tarek Lotfy Sedeek (Egypt): Applications of Survey and GIS in Utilities Field</p> <p>TS 26.7 Francisco A. Hansen Albites (Mexico): Activities of PC IDEA in the Americas: A Progress Report</p>
16:00–17:30 White Nile	<p>TS 27: Remote Sensing and Photogrammetry</p> <p>Commission: FIG 5 Chair: Dr. Mohsen Badawy, Egypt Rapporteur: Mr. Rob Sarib, Australia</p> <p><i>Papers:</i></p> <p>TS27.1 Justus Rwetabula and Florimond de Smedt (Belgium): Land Use and Land Cover Mapping of the Simiyu Catchment (Tanzania) Using Remote Sensing Techniques</p> <p>TS27.2 Miriam Labrada Pons (Cuba): Use of Remote Sensing and GIS in the Management Plan for Ecological Restoration in the Zapata Swamp Biosphere Reserve, Cuba</p> <p>TS27.3 Tao Xiaxin and Li Ping (China P. R.): Quantitative Detection of Damage in Bachu Earthquake (2003) from Low Resolution Satellite Images</p>

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16:00–17:30 White Nile (continued)	<p>TS27.4 Nagawa El Ashmawy, Yasser Elmanadili and Hazem Barakat, (Egypt): Comparative Analysis and Evaluation of Various Mathematical Models for Stereo IKONOS Satellite Images</p> <p>TS27.5 Mustafa Atasoy, Cemal Biyik, Huseyin Ayaz, Fevzi Karsli, Osman Demir and Emin Zeki Baskent (Turkey): Monitoring Land Use Changes and Determining the Suitability of Land for Different Uses with Digital Photogrammetry</p> <p>TS27.6 Mohamed Ettarid, Ali Ait M'Hand and Redouane Aloui (Morocco): Digital True Ortho-photos Generation</p> <p><i>Posters (short presentations):</i></p> <p>TS27.7 Kwang-Hoon, Chi and Sung-Soon, Lee (Republic of Korea): Rectification Technique of High Resolution Images for Mountain Area</p> <p>TS27.8 Sami Gumaan Daraigan, Mohd Zubir Mat Jafri, Khiruddin Abdullah, Syadril Amin Hashim (Malaysia) and Sultan AISultan (Saudi Arabia): Polluted Water Measuring Using a Novel Optical Sensor System</p> <p>TS27.9 Mostafa A-B Ebrahim (Egypt): Studying the Effect of Some Image Enhancement Features on the Accuracy of Close Range Photogrammetric Measurements Using CAD Environment</p> <p>TS27.10 Sultan AISultan (Saudi Arabia) and Hwee-San Lim, Mohd Zubir MatJafri and Khiruddin Abdullah (Malaysia): An Algorithm for the Land Surface Temperature Analysis of Remote Sensing Image Coverage over AlQassim, Saudi Arabia</p> <p>TS27.11 Jalal Amini and Ali Reze Mohamadi Hashemi (Iran): Geometric Correction in IKONOS Images: Case Study: Tehran, Iran</p> <p>TS27.12 Huadong Guo, Changlin Wang, Wang Weimin, Zhu Boqing and Zhong Ruofei (China P. R.): A New Digital Earth Information Source – Processing and Applications of Chinese Spacecraft Remote Sensing Data</p>
16:00–17:30 Babylon	<p>TS 28: Business of Land Administration</p> <p>Commission: FIG 7 Chair: Prof. Dr. Ibrahim Shaker, Egypt Rapporteur: Dr. Daniel Steudler, Switzerland</p> <p><i>Papers</i></p> <p>TS28.1 Antonio Benvenuti and Bruno Razza (Italy): The Cadastre: An Instrument for the Development of the Society</p> <p>TS28.2 M. Mostafa Radwan (The Netherlands), M. Hisham Nasr (Egypt), Christiaan Lemmen (The Netherlands) and Sohir Hussein (Egypt): The Egyptian Survey Authority Business Model to Strengthen Public Private Partnership in the Real Estate Industry</p> <p>TS28.3 Zuhair AlOstah and Saad AlKhatib (Jordan): Building Jordan Digital Cadastral Data Base (JDCDB) in the Department of Lands and Survey (DLS)</p> <p>TS28.4 Charles Cowap (United Kingdom): Can You Have Too Much Security of Tenure?</p> <p>TS28.5 Francis Gabele and Marc Vanderschueren (Belgium): Business Approaches and the “Patrimonial Documentation” Administration of Belgium</p> <p><i>Posters (short presentations)</i></p> <p>TS28.6 Jiri Rydval, Vaclav Slaboch and Libor Tomandl (Czech Republic): Strengths and Weaknesses of the Czech Cadastral System: An Analysis of Present System</p> <p>TS28.7 Mehmet Cete and Bayram Uzun (Turkey): The Evolving Role of Private Sector in Turkish Cadastral System</p>
16:00–17:30 Osiris	<p>TS 29: Approaches in Land Consolidation and Community Regeneration</p> <p>Commission: FIG 8 and 7 Chair: Dr. Diane Dumashie, United Kingdom Rapporteur: Prof. Dr. Arvo Vitikainen, Finland</p> <p><i>Papers</i></p> <p>TS29.1 Rainer Müller-Jökel (Germany): The Participation of Landowners and the Public in German Planning and Land Management Projects</p> <p>TS29.2 Eszter Hona (Hungary): The Role of Spatial Plans in the Reparation of Land Consolidation in Hungary</p> <p>TS29.3 Mohammed Essadiki (Morocco): Land Consolidation in Morocco: Situation and Perspective</p>

Conference Programme – Tuesday, 19 April

16:00–17:30 Osiris (continued)	<p>TS29.4 Per Kåre Sky and Øyvind Ravna (Norway): Land Consolidation and Landscape Changes in Galicia (Spain)</p> <p>TS29.5 John Salmon (United Kingdom): Mineral Development in Developing / Developed Worlds</p> <p>TS29.6 Simon Forbes and Tim Goodhead (United Kingdom): Surveyors in Planning and Regeneration: Impacts on the Social and Welfare Benefits of Communities Arising in Regenerating Historic Military Port Towns</p> <p><i>Posters (short presentations)</i></p> <p>TS29.7 Hamdy El-Gamýly and Islam Abou el-Magd (Egypt): Multi-temporal Monitoring of the Cancerous Urban Growth in the Nile Delta, Egypt</p> <p>TS29.8 Miroslaw Gdesz (Poland): Adjacency Levies in Poland – Main Problems</p>
16:00–17:30 Isis	<p>TS 30: Valuation and Real Estate Management II</p> <p>Commission: FIG 9</p> <p>Chair: Eng. Mohamed Reda Abdelrahman, Egypt</p> <p>Rapporteur : Mr. David Smejkal, Czech Republic</p> <p>TS30.1 Marina Vaskovich (Belarus): Purchase of Real Property in Belarus: Modelling and Evaluation</p> <p>TS30.2 Kauko Viitanen (Finland): International Valuation Standards and Land Administration</p> <p>TS30.3 Volkan Yildirim and Recep Nisanci (Turkey): Property & Garbage Tax Collection via Address Information Systems: A City Case Study Trabzon</p> <p>TS30.4 Maria Ulfvarson Östlund (Sweden): Real Estate Development Agreements in Sweden</p> <p>TS30.5 Cristian Silviu Banacu and Ioana Manolache (Romania) Efficiency and Effectiveness in Using the International Valuation Standards in Land Management and Legislation Framework – Case of Romania</p>
16:00–16:50 Suite 1	<p>GSDI Meeting: Geographic Data Commons Roundtable</p> <p>Chair: tba.</p> <p>On 19 November 2004, major biological organizations from around the world announced their endorsement of common principles calling for free and open access to conservation information. The effort, known as the Conservation Commons, aims to more effectively connect users of conservation data to the information they need by committing signatories to make some or all of their conservation data available for free and open use. This roundtable will explore the interest of major geographic data organizations in committing themselves to a parallel and complimentary global effort for open access to geographic data to support broad ranging social, economic and scientific purposes.</p>

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Conference Programme – Wednesday, 20 April

Wednesday, 20 April						
08:00–17:30	Registration					
09:00–10:30 Blue Nile and White Nile	Plenary Session 3 – Future of the SDI / Surveying Communities Prof. Ian Dowman, University College London, President of ISPRS: Photogrammetry and Remote Sensing in SDIs and Preventing Environmental Catastrophes O.Univ.-Prof. Dipl.-Ing. Dr.techn. Hans Sünkel, Rector of the University of Graz: Future of Surveying and SDI Dr. Hisham El Sherif, Chairman of IT Investments Group, Egypt: Future of Surveying and GIS in the Arab World					
09:00–10:30 Suite 4	FIG Commission 4 Annual Meeting FIG Commission 4 delegates, open to observers					
10:30–14:00 Morgana and Kahramana	Exhibition					
10:30–17:30	Technical Tours TT 4 – Smart Village					
	TT 6 – Remote Sensing Organization (–13.00)					
10:30–11:00	Coffee break					
11:00–12:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 31 – Developing SDI's Commission: GSDI and FIG 3	TS 32 – Disaster Management and GIS Applications Commission: FIG 8 and 3	TS 33 – Vertical Reference Frame Commission: FIG 5	Round table for African SDIs Commission: GSDI	TS 34 – Technological Aspects of Land Administration Systems Commission: FIG 7	TS 35 – Hydrography I Commission: FIG 4
12:30–14:00	Lunch					
14:00–15:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 36 – Evaluation SDI's Commission: GSDI and FIG 3	TS 37 – Spatial Development Infrastructure Linkages with Urban Planning Commission: FIG 8, 3 and 7	TS 38 – Using Laser Scanning in Engineering Surveys Commission: FIG 6	Round table for African Policy Decisions Commission: GSDI	TS 39 – Boundary Surveying Commission: FIG 7	TS 40 – Administering Marine Spaces Commission: FIG 4 and 7
14:00–15:30 FIG Office	FIG Corporate Members Meeting by invitation only					
14:00–15:30 Suite 2	Workshop on the Guidelines to Enhance the Situation of Under-represented Groups in FIG					
14:30–15:30 Suite 1	GSDI Meeting – Open Source Software Forum					
15.30–16:00	Coffee break					
16:00–17:30	Blue Nile	White Nile	Babylon	Nefertiti 2	Osiris	Isis
	TS 41 – SDI Implementation Cases Commission: GSDI	TS 42 – Spatial Information Systems – Regional and International Approaches Commission: FIG 3 and GSDI	TS 43 – Deformation Measurement and Analysis Commission: FIG 6	Round table for Asia and Pacific SDIs Commission: GSDI	TS 44 – Financing Affordable Housing Commission: FIG 10, 9 and 8	TS 45 – Hydrography II Commission: FIG 4
19:00– Club Mohamed Aly	Gala Dinner					

Conference Programme – Wednesday, 20 April

Technical Programme	
09:00–10:30 Blue Nile and White Nile	<p>Plenary Session 3: Future of the SDI / Surveying Communities</p> <p>Chair: Prof. Dr. Ahmed Elsheikh, Egypt Rapporteur: Prof. Dr. Ralf Schroth, FIG Vice President, Germany</p> <p>PS3.1 Prof. Ian Dowman, University College London, President of ISPRS: Photogrammetry and Remote Sensing in SDIs and Preventing Environmental Catastrophes</p> <p>PS3.2 O.Univ.-Prof. Dipl.-Ing. Dr.techn. Hans Sünkel, Rector of the University of Graz: Future of Surveying and SDI</p> <p>PS3.3 Dr. Hisham El Sherif, Chairman of IT Investments Group, Egypt: Future of Surveying and GIS in the Arab World</p>
11:00–12:30 Blue Nile	<p>TS 31: Developing SDI's</p> <p>Commission: GSDI and FIG 3 Chair: Prof. Dr. Ian Masser, United Kingdom Rapporteur: Eng. Mohamed Mostafa, Egypt</p> <p>Papers</p> <p>TS31.1 D. R. Fraser Taylor (Canada): The History and Development of Global Map: A Spatial Data Infrastructure for Sustainable Development in the Middle East and North Africa</p> <p>TS31.2 Mark Reichardt (USA): GSDI Depends on Widespread Adoption of OGC Standards</p> <p>TS31.3 Milan Konecny (Czech Republic) and Ferjan Ormeling (The Netherlands): The Role of Cartography in the GSDI World</p> <p>TS31.4 Arif Cagdas Aydinoglu and Philippe de Maeyer (Belgium) and Tahsin Yomralioglu (Turkey): Examining European SDI Initiatives in Anticipation of a SDI Framework for Turkey</p> <p>TS31.5 Jesús Olvera Ramírez (Mexico): The Spatial Data Infrastructure of México "IDEMex"</p> <p>Posters (short presentations)</p> <p>TS31.6 Richard Kasuga (Tanzania): Towards SDI Decision Support for Agricultural Planning in Tanzania</p> <p>TS31.7 Joel I. Igbokwe and Mathew N. Ono (Nigeria): Nigeria's National Geospatial Data Infrastructure: Problems and Prospects</p>
11:00–12:30 White Nile	<p>TS 32: Disaster Management and GIS Applications</p> <p>Commission: FIG 8 and 3 and GSDI Chair: Mr. Wafula Nabutola, Kenya Rapporteur: Dr. Yasser Almanadely, Egypt</p> <p>Papers</p> <p>TS32.1 Theo Kötter (Germany): Risk Management</p> <p>TS32.2 Daniel Roberge (Canada): After the Tsunami – How the Surveying Profession Can Participate in the Reconstruction?</p> <p>TS32.3 Julian Simela and Emmanuel Tembo (Botswana): Disaster Management in the Land Development Chain</p> <p>TS32.4 Frank Friesecke (Germany): Flood Risk Management – Flood Prevention by Land Consolidation in the Rhine Catchment Area</p> <p>Posters (short presentations)</p> <p>TS32.5 Lidija Romic and Pere Tumbas (Serbia and Montenegro): The Validation of Risk Information in the Erm Process Based on Accounting</p> <p>TS32.6 Abdelkader Missoumi, Kouider Tadjerouni, Mohamed Chikh and Larbi Tidjani (Algeria): Remote Sensing and GIS: Two Major Tools for the Environment Management and Protection Case of the Cartography of the Natural Disasters</p> <p>TS32.7 Youcef Smara, Aichouche Belhadj-Aissa and Mostefa Belhadj-Aissa (Algeria): Application of GIS and Remote Sensing Technologies in Disaster Management in Algeria</p> <p>TS32.8 Amr Hanafi Ali and Mona Saad ElSayed (Egypt): Planning for Engineering Projects with the Reference to Application of Environmental Impact Assessment</p>

Conference Programme – Wednesday, 20 April

11:00–12:30 Babylon	<p>TS 33: Vertical Reference Frame</p> <p>Commission: FIG 5 Chair: Prof. Dr. Dalal Alnaggar, Egypt Rapporteur: Mr. Mikael Lilje, Sweden</p> <p>TS33.1 Y. Al Marzooqi, H. Fashir and Syed Iliyas Ahmed (United Arab Emirates) and R. Forsberg and G. Strykowski (Denmark): Progress Towards a Centimeter Geoid for Dubai Emirate</p> <p>TS33.2 Adel H. El-Shazly (Egypt): GPS Levelling Without Geoid in Egypt Applied to Borg Al-Arab City</p> <p>TS33.3 Kemal Yurt, Ertan Gökalp and Yüksel Boz (Turkey): Determination of Local Geoid with GPS in Tabzon/Turkey</p> <p>TS33.4 Keith M. Miller, Joseph Hamilton and David Neale (Trinidad, West Indies): Vertical Datums in a Fault Zone: Influences of Plate Tectonics in Trinidad, West Indies</p> <p>TS33.5 Ayhan Ceylan, Cevat Inal and Ismail Sanlioglu (Turkey): Modern Height Determination Techniques and Comparison of Accuracies</p> <p>TS33.6 Metin Soycan and Arzu Soycan (Turkey): Geoid Heights Computation from GPS Data and Classical Terrestrial Zenith Angle Observations</p>
11:00–12:30 Osiris	<p>TS 34: Technological Aspects of Land Administration Systems</p> <p>Commission: FIG 7 Chair: Prof. Dr. Mostafa Radwan, The Netherlands Rapporteur: Mr. Marc Vandershueren, Belgium</p> <p>TS34.1 Ivan Aleksiaë (Serbia), Christiaan Lemmen (The Netherlands) and Suleiman Dabass (Serbia): Technological Aspects of Land Administration Systems in the West Balkans</p> <p>TS34.2 Mohamed El-Maghraby (Egypt) and Ali Zobarei (Syria): Uses of Recent Techniques for Establishing a Good and Up-to-date Base for a Modern Cadastre System</p> <p>TS34.3 Samir Elrouby (Egypt), Kaisa Harju (Finland) and Ian Corker (United Kingdom): Developing an Automated Cadastral Information System in Egypt</p> <p>TS34.4 Adel Haggag, Ibrahim Shaker, Mohamed El-Maghraby (Egypt) and Ali Zobarei (Syria): Towards an Automated Information System for Cadastral Survey in Egypt</p> <p>TS34.5 Halil Ibrahim Inan and Selcuk Reis (Turkey): The Need of a Parcel-based Information System to Support Agricultural Sector</p>
11:00–12:30 Isis	<p>TS 35: Hydrography I</p> <p>Commission: FIG 4 Chair: Mr. G. K. (Ken) Allred, Vice President of FIG, Canada Rapporteur: Dr. Adel H. Elshazly, Egypt</p> <p>TS35.1 Alexandros Maratos, President of the International Hydrographic Bureau: IHO Activities</p> <p>TS35.2 Paul Hornsby, Chairman of the International Federation of Hydrographic Societies : Chairman of the International Federation of Hydrographic Societies: Hydrography – Modern Maritime Exploration and the Alliance between the Practitioner, the Customer and Government Interests</p> <p>TS35.3 IAB: IAB Activities</p>
11:00–12:30 Nefertiti	<p>Round table for African SDIs</p> <p>Commission: GSDI Moderator: Dr. Chukwudozie Ezigbalike, UN Economic Commission for Africa Rapporteur: Dr. Ganiy I. Agbaje, NGDI Project Manager, NASRDA, Nigeria</p> <p>Our goal is to share success stories, issues and general information on SDI development with neighbors in a region and across regions. We believe this is the way we all grow and improve locally, nationally, and regionally. One way to share information is through a series of round-table sessions on a regional basis where we each can share our experiences with others and generate interaction with our neighbors.</p> <p><i>Panel topics</i></p> <p>We ask the panelists to address one or more of the following questions:</p> <ul style="list-style-type: none"> • What is the easiest issue to address in any SDI development? • What is the most difficult issue to address in SDI development? • Which one do you recommend addressing first in SDI development? • Give brief examples of these from your own experiences/ observations?

Conference Programme – Wednesday, 20 April

11:00–12:30 Nefertiti (continued)	<p><i>Presenters</i></p> <ul style="list-style-type: none"> • Charles Paradzayi, Zimbabwe • Lehlohonbolo D. Moeti, Lesotho • Mercy Matheri, South Africa • Ansetos Musarava Dumburashe, Zimbabwe/Southern African sub-region • Olajide Kufoniyi, Nigeria
14:00–15:30 Blue Nile	<p>TS 36: Evaluation SDI's</p> <p>Commission: GSDI and FIG 3 Chair: Dr. Abbas Rajabifard, Australia Rapporteur: Mr. Bastiaan van Loenen, The Netherlands</p> <p>TS36.1 Arnold Bregt and Joep Crompvoets (The Netherlands): Spatial Data Infrastructures: Hype or Hit?</p> <p>TS36.2 Ian Masser (United Kingdom): Some Priorities for SDI Related Research</p> <p>TS36.3 Orlando Rodríguez-Pabón, Stéphane Roche, Claude Caron and Jean-Jacques Chevalier (Canada): Theoretical Framework for the Evaluation and Comparison of SDI Projects</p> <p>TS36.4 Tatiana Delgado Fernández (Cuba), Kate Lance, Margaret Buck and Harlan J. Onsrud (USA): Assessing an SDI Readiness Index</p> <p>TS36.5 Mohamed Abdel-salam (Canada) and Mohamed Mostafa (Egypt): Development of Unified Spatial Infrastructure Status Index for Developing Nations</p>
14:00–15:30 White Nile	<p>TS 37 : Spatial Development Infrastructure Linkages with Urban Planning and Infrastructure Management</p> <p>Commission: FIG 8, 3 and 7 Chair: Prof. Dr. Theo Kötter, Germany Rapporteur: Mr. Wafulo Nabutola, Kenya</p> <p><i>Papers</i></p> <p>TS37.1 Christiaan Lemmen, Mostafa Radwan, Fatma Abdel Kader and Atef Abdelmoneam (The Netherlands): A Vision on the Development of the Urban Cadastre in Egypt</p> <p>TS37.2 El Hassane Semlali, Achraf Ait Alla, Khalid Zahiri and My Abdeslam Adad (Morocco): Process of Integrating Digital Cadastral Map and Urban Data into a GIS Application for the Development of a Municipality – Case Study</p> <p>TS37.3 Shuaib Lwasa (Uganda): A Geo-Information Approach for Urban Land Use Planning in Kampala</p> <p>TS37.4 Nasrin Sesar (USA): Land Use of the Geographical Information System (GIS) and Mathematical Models in Planning Urban Parks & Green Spaces</p> <p>TS37.5 Edwin Mugerezi (Tanzania): Revenue Management System Helping to Implement the SDI in Cities</p> <p><i>Posters (short presentations)</i></p> <p>TS37.6 El Hassane Semlali, Lamiaa Ait Lakhraz, Rabia Hamel and Abdelouahed el Idrissi (Morocco): Management of an Urban Development MAP: Design and Development of a GIS User Interface to Solve Technical Problems</p> <p>TS37.7 Amir Mohammad Toosi, Mahmoud Reza Delavar and Hani Rezayan (Iran): Upgrading Urban Detailed Plan Production Process Using GIS: Case Study: Production of Land Value Data Layer</p> <p>TS37.8 Bachir Ablat, Mohamed Rouchdi, Assou Mohammmi and Mohammed Laaroussi (Morocco): An Infrastructure of Spatial Data for an Efficient Management of Agriculture Water Need</p> <p>TS37.9 Gordon S. O. Ojwang' (Kenya): Spatial Data Modelling: An Integrated Approach in Resource Data Acquisition for Land Use Planning and Sustainable Utilization</p> <p>TS37.10 Adelino Ferreira and Anabela Duarte (Portugal): A GIS-based Integrated Infrastructure Management System</p> <p>TS37.11 Mustafa Khamis Farahat (Egypt): Applications of Geographic Information System in Field of Utilities – Greater Cairo Utility Data Center</p> <p>TS37.12 Abdel Razek Ahmed Abdel Mageed, Duaa Mostafa Salem and Tarek Lofty Sedeek (Egypt): Applications of Surveying and GIS in Utilities Field – Giza Utility Data Center</p>

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14:00–15:30 Babylon	<p>TS 38: Using Laser Scanning in Engineering Surveys</p> <p>Commission: FIG 6 Chair: Prof. Dr. Shawky Al-Ghazaly, Egypt Rapporteur : Prof. Dr. Alojz Kopacik, Slovakia</p> <p>TS38.1 Ivo Milev and Lothar Gruendig (Germany): As-built Documentation and Reverse Engineering Derived from Laser Scanning</p> <p>TS38.2 Gethin Roberts and Laura Hirst (United Kingdom): Deformation Monitoring and Analysis of Structures Using Laser Scanners</p> <p>TS38.3 Nizar Abo Akel, Sagi Filin and Yerach Doytsher (Israel): From Airborne Laser Data to Spatial Information: Object Reconstruction and Accuracy Analysis</p> <p>TS38.4 Ayman Habib, Mwafag Ghanma and Eui MYoung Kim (Canada): LIDAR Data for Photogrammetric Georeferencing</p> <p>TS38.5 Rudolf Staiger (Germany): The Geometrical Quality of Terrestrial Laser Scanner (TLS)</p> <p>TS38.6 Michel Morgan, Soo Jeong, Kyung-Ok Kim and Ayman Habib (Canada): Normalization of Linear Array Scanner Scenes Using the Modified Parallel Projection Model</p>
14:00–15:30 Osiris	<p>TS 39: Boundary Surveying</p> <p>Commission: FIG 7 Chair: Prof. Dr. Mostafa Baraka, Egypt Rapporteur: Mr. Jiri Rydval, Czech Republic</p> <p>TS39.1 Michael Elfick (Australia), Tim Hodson (South Africa) and Curt Wilkinson (USA): Managing a Cadastral SDI Framework Built from “Metes and Bounds” Data</p> <p>TS39.2 David Powell (United Kingdom): Neighbours at War (Boundary Disputes)</p> <p>TS39.3 Eugene H. Silayo (Tanzania): Searching for an Affordable and Acceptable Cadastral Survey Method</p> <p>TS39.4 Metin Soycan and Taylan Öcalan (Turkey): GPS Based Traversing for Topographic-cadastral Surveying and Staking</p>
14:00–15:30 Isis	<p>TS 40: FIG Commission 4 Working Group Activities</p> <p>Commission: FIG 4 and 7 Chair: Mr. Adam Greenland, United Kingdom Rapporteur: Mr. Andrew Leyzack, Canada</p> <p>TS40.1 Michael Sutherland (Canada): The Marine Cadastre: Legal and Spatial Data Contribution to Economic, Environmental and Social Development</p> <p>TS40.2 Ruth Adams (United Kingdom): Vertical Reference Surface for Hydrography – Status Report 2005</p> <p>TS40.3 M. Sigit Widodo (Indonesia): Developing a Marine Spatial Planning: Lessons from Integrated Spatial Plan for City of Balikpapan, Indonesia</p> <p>TS40.4 Phan Minh Thu (Vietnam): A GIS-Based Method of Assessment of Environmental Degradation in Vietnamese Coastal Waters</p> <p>TS40.5 Sadrudin Charania (Kenya): Integrated Water Resources Management with Reference to Developing Countries</p> <p>TS40.6 Alexandrina Zaharia (Romania): Juridical Protection of Waters and Aquatic Ecosystems in Romania. This paper has not been presented at the conference.</p>
14:00–15:30 Nefertiti	<p>Round table for African Policy Decisions</p> <p>Commission: GSDI and UN ECA Moderator: Dr. Chukwudozie Ezigbalike, UN Economic Commission for Africa Rapporteur: Dr. Olajide Kufoniya, Nigeria</p>
14:30–15:30 Suite 1	<p>GSDI Meeting: Open Source Software Forum</p>

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16:00–17:30 Blue Nile	<p>TS 41: SDI Implementation Cases</p> <p>Commission: GSDI Chair: Dr. Yola Georgiadou, The Netherlands Rapporteur : Mr. Daniel Roberge, Canada</p> <p><i>Papers</i></p> <p>TS41.1 Roland M. Wagner, Niklas Panzer and Falko Menge (Germany): SDI Initiative North Rhine-Westphalia (GDI NRW) / Germany, SDI NRW Joint Project 2004: Identification of Enhanced SDI Elements (GDI NRW Verbundprojekt 2004)</p> <p>TS41.2 Leonid Stoimenov, Aleksandar Stanimirovic and Slobodanka Djordjevic-Kajan (Serbia and Montenegro): Development of GIS Interoperability Infrastructure in Local Community Environment</p> <p>TS41.3 Raja Ram Chhatkuli and Durgendra Man Kayastha (Nepal): Towards a National Geographic Information Infrastructure: Overcoming Impediments to the Development of SDI in Nepal</p> <p>TS41.4 Steffen Vogt (Germany): AntSDI: The Coolest SDI on Earth? – Towards a Spatial Data Infrastructure for Antarctica</p> <p>TS41.5 Mark Sorensen (USA): 25 Years of SDI and Federated GIS Implementation Lessons Learned in the Middle East and Beyond</p> <p>TS41.6 Karen D. Kline (Japan): The Digital Divide and Global Spatial Data and Users</p> <p><i>Posters (short presentations):</i></p> <p>TS41.7 Olajide Kufoniyi and Ganiy I. Agbaje (Nigeria): National Geospatial Data Infrastructure Development in Nigeria: the Journey So Far</p>
16:00–17:30 White Nile	<p>TS 42: Spatial Information Systems – Regional and International Approaches</p> <p>Commission: FIG 3 and GSDI Chair: Prof. Dr. Milan Konecny, Czech Republic Rapporteur: Mr. Christiaan Lemmen, The Netherlands</p> <p>TS42.1 Heinz Brueggemann (Germany): SDI's as Basic Components of e-Government and e-Business – The German Approach</p> <p>TS42.2 Jes Ryttersgaard (Denmark): Overview of INSPIRE</p> <p>TS42.3 Gerhard Muggenhuber (Austria), Ivan Aleksic and Suleiman Dabbas (Serbia and Montenegro): The Impact of Spatial Information Provided by Land Administration Services in Europe</p> <p>TS42.4. Phillip Rudd and Robert Sarib (Australia): Northern Territory (Australia) Spatial Data Infrastructure – Now and Beyond</p> <p>TS42.5 Floris de Bree (The Netherlands) and Abbas Rajabifard (Australia): Involving Users in the Process of Using and Sharing Geo-information within the Context of SDI Initiatives</p>
16:00–17:30 Babylon	<p>TS 43: Deformation Measurement and Analysis</p> <p>Commission: FIG 6 Chair: Prof. Dr. Ahmed Shaker, Egypt Rapporteur : Prof. Dr. Gethin Roberts, United Kingdom</p> <p><i>Papers</i></p> <p>TS43.1 Wan Aziz W. A., Zulkarnaini M. A. and Shu K. K. (Malaysia): The Deformation Study of High Building Using RTK-GPS : A First Experience in Malaysia</p> <p>TS43.2 Vassilis Gikas, Demetris Paradissis, Kostas Raptakis and Olga Antonatou (Greece): Deformation Studies of the Dam of Mornos Artificial Lake via Analysis of Geodetic Data</p> <p>TS43.3 Youjian Hu (China P. R.), Kefei Zhang and Gangjun Liu (Australia): Deformation Monitoring and Analysis Using Regional GPS Permanent Tracking Station Networks</p> <p>TS43.4 Moustafa A. Baraka and Adel H. El-Shazly (Egypt): Monitoring Bridge Deformations During Static Loading Tests Using GPS</p> <p>TS43.5 Reda Mohamed A. Ali, Paul A. Cross and Ali A. Elsharkawy (Egypt): High Accuracy Real-time Dam Monitoring Using Low-cost GPS Equipment</p> <p>TS43.6 Stella I. Pytharouli, Villy A. Kontogianni, Anna Nickitopoulou, Panos A. Psimoulis and Stathis C. Stiros: Analysis of the Kinematics of a Deep-Seated Landslide</p>

Conference Programme – Wednesday, 20 April

16:00–17:30 Babylon (continued)	<p><i>Posters (short presentations)</i></p> <p>TS43.7 A. Merbah, B. Gourine, B. Ghezali and S. Kahlouche (Algeria) and M. Meghraoui (France) and M. J. Sevilla (Spain): Evaluation et Interpretation des Deformations Horizontales et de leurs Erreurs sur un Réseau de Surveillance Sismique</p> <p>TS43.8 Krystyna Czarnecka and Kazimierz Czarnecki (Poland): Geophysical Support of Geodynamical Studies of the Surroundings of Large Engineering Objects</p> <p>TS43.9 Gheorghe-Mugurel Radulescu and Corina-Michaela Radulescu (Romania): Tall Structures Behaviour Under the Action of Irregular Heat of the Wind of Cumulated Loadings</p> <p>TS43.10 Ayman Habib, Anoop Pullivelli and Chang-Hahk Hahm (Canada): Camera Calibration, Stability Analysis and Potential Applications of Low-Cost Digital Cameras</p>
16:00–17:30 Osiris	<p>TS 44: Financing Affordable Housing</p> <p>Commission: FIG 10, 9 and 8 Chair: Mr. Andrew Morley, United Kingdom Rapporteur: Dr. Diane Dumashie, United Kingdom</p> <p>TS44.1 Maziah Isma'yl (Malaysia): Issues and Challenges in Financing Affordable Quality Housing: the Malaysian Experience</p> <p>TS44.2 Joseph Jenkins (USA): A Method for the Reuse of Packaging Materials in the Construction of Very Low Income Housing</p> <p>TS44.3 Francis Chigiinge (Zimbabwe): A Critical Appraisal of the Role of Financial Markets and Institutional Support in Promoting Housing Provision in Zimbabwe</p> <p>TS44.4 Tahsin Yomralioglu and Recep Nisanci (Turkey): An Approach to Support Low Income Families' Housing Needs in Developing Countries</p> <p>TS44.5 Hani Rezayan, Farid Karimipour, Jalal Amini and Amir Mohammed Toosi (Iran): Neighborhoods Development in Real Estate Appraisal Process</p>
16:00–17:30 Isis	<p>TS 45: Hydrography II</p> <p>Commission: FIG 4 Chair: Mr. David Neale, Trinidad, West Indies Rapporteur: Ms. Ruth Adams, United Kingdom</p> <p>TS45.1 Hasanuddin Z. Abidin, S. Sutisna, T. Padmasari, J. Kahar and K. J. Villanueva (Indonesia): Geodetic Datum of Indonesian Maritime Boundaries: Status and Problems</p> <p>TS45.2 Adel H. El-Shazly (Egypt): The Efficiency of Neural Networks to Model and Predict Monthly Mean Sea Level from Short Spans Applied to Alexandria Tide Gauge</p> <p>TS45.3 Andrew Leyzack (Canada): The Canada Lands Surveyor Commission – A Recommended Role in the Certification of Hydrographic/Offshore Surveyors</p>
16:00–17:30 Nefertiti	<p>Round table for Asia and Pacific SDIs: SDI in America</p> <p>Commission: GS DI Moderator: Prof. Dr. Ian Williamson, University of Melbourne, Australia Rapporteur: Dr. Abbas Rajabifard, University of Melbourne, Australia</p> <p>Our goal is to share success stories, issues and general information on SDI development with neighbors in a region and across regions. We believe this is the way we all grow and improve locally, nationally, and regionally. One way to share information is through a series of round-table sessions on a regional basis where we each can share our experiences with others and generate interaction with our neighbors.</p> <p><i>Panel topics</i></p> <p>We ask the panelists to address one or more of the following questions:</p> <ul style="list-style-type: none"> • What is the easiest issue to address in any SDI development? • What is the most difficult issue to address in SDI development? • Which one do you recommend addressing first in SDI development? • Give brief examples of these from your own experiences/ observations? <p>Panelists: To be announced</p>

Conference Programme – Thursday, 21 April

Thursday, 21 April			
08:00–16:00	Registration		
08:30–10:30 Babylon	FIG President's Meeting for Presidents of FIG member associations or their representatives, by invitation only		
09:00–17:00 Suite 2	GSDI Executive Committee by invitation only		
09:00–10:30	Morgana	Osiris	Nefertiti 2
	TS 46 – Place Names and Addresses Commission: GSDI and FIG 3	TS 47 – SDI Legal and Policy Issues Commission: GSDI	TS 48 – GLOBAL MAPPING – Global Geo-information for Sustainable Development - Part I – General Presentation on Global Geo-information Organiser: ISCGM
10:30–11:00	Coffee break		
11:00–14:00 Blue Nile and White Nile	FIG General Assembly – Second Session FIG members, open for observers		
11:00–12:30	Morgana	Osiris	Nefertiti 2
	TS 49 – SDI Data Issues Commission: GSDI and FIG 3	TS 50 – Partnerships and Funding Commission: GSDI	TS 51 – GLOBAL MAPPING – Global Geo-information for Sustainable Development - Part II – Panel Discussion on Global Mapping Organiser: ISCGM
12:30–14:00	Lunch		
14:30–16:30 Blue Nile, White Nile and Morgana	Closing Ceremony		
17:00–20:00 Babylon	GSDI Board Meeting by invitation only		

Technical Programme

09:00–10:30 Morgana	TS 46: Place Names and Addresses
	Commission: GSDI and FIG 3 Chair: Eng. Mosaad Ibrahim, Egypt Rapporteur: Mr. Keith Murray, United Kingdom TS46.1 Rubén Darío Mateus Sanabria and Sonia Mireya Sua Tunjano (Colombia): Biological Records Georeferencing and Digital Localities Gazeter TS46.2 A. I. Owolabi, S. B Olukotun and A. O. Liadi (Nigeria): Geographical Names and Address System TS46.3 Mercy Matheri (South Africa): Challenges Facing the Creation of a Standard South African Address System TS46.4 Mohamed M. R. Mostafa (Canada): Optimizing the Digital Processing Workflow Using Direct Georeferencing TS46.5 Anthony A. Adeoye (Nigeria): Toward the Development of Geographic Names Information Systems for the Management of Telecommunication in Nigeria
09:00–10:30 Osiris	TS 47: SDI Legal and Policy Issues
	Commission: GSDI Chair: Prof. Bas Kok, The Netherlands Rapporteur: Mr. Tran Nhu Trung, Vietnam TS47.1 Alessandro Annoni and Massimo Craglia (Italy): Towards a Directive Establishing an Infrastructure for Spatial Information in Europe (INSPIRE)

Conference Programme – Thursday, 21 April

09:00–10:30 Osiris (continued)	<p>TS47.2 Abbas Rajabifard, Andrew Binns and Ian Williamson (Australia): Development of a Virtual Australia Utilising an SDI Enabled Platform</p> <p>TS47.3 Nick Land (France): EuroGeographics – Underpinning Europe’s Spatial Information Infrastructure: Obstacles and Solutions</p> <p>TS47.4 Bino Marchesini (EUROGI, The Netherlands) : Why and How EUROGI Supports Pan European GI Cooperation</p> <p>TS47.5 Eldor Saidov (Uzbekistan): Development of Spatial Data Infrastructure in the Republic of Uzbekistan by the Creation of Committee (on the Example of South African Committee)</p>
09:00–10:30 Nefertiti	<p>TS 48: GLOBAL MAPPING – Global Geo-information for Sustainable Development – Part I – General Presentation on Global Geo-information</p> <p>Organiser: ISCGM Chair: Mr. Peter Holland, Australia Rapporteur: Dr. Karen Kline, Japan</p> <p>TS48.1 Hiromichi Maruyama, Hisakazu Sasaki and Takaki Okatani (Japan): Global Mapping Project by National Mapping Organizations on the Globe</p> <p>TS48.2 Ryutaro Tateishi (Japan): Global Land Cover Mapping</p> <p>TS48.3 David Forrest (United Kingdom): Automated Selection of Topographic Base Information from the Global Map Database for Thematic Maps</p> <p>TS48.4 Chris Higgins (United Kingdom): An Investigation Into the Use of EuroGlobal Map in the UK Academic SDI</p>
11:00–12:30 Morgana	<p>TS 49: SDI Data Issues</p> <p>Commission: GSDI and FIG 3 Chair: Mr. Douglas D. Nebert, USA Rapporteur : Dr. Chryssy Potsiou, Greece</p> <p>TS49.1 Olaide Suraj Onabajo, Olasunkanmi Olatunde Akerele and Solomon Babatope Olu-kotun (Nigeria): Development and Implementation of Metadata Structure in Nigeria – A Case Study of Federal Survey Department</p> <p>TS49.2 Charles Paradzayi (Zimbabwe): Spatial Data Infrastructure as a Vehicle for Sustainable Development in Zimbabwe</p> <p>TS49.3 Abiti Getaneh Gebremeskel (Ethiopia): Ethiopian Natural Resources and Environmental Meta-Database (ENRAEMED)</p> <p>TS49.4 David Njike and Kuda Mushati (Zimbabwe): The Challenges of Implementing Metadata in Developing Countries: A Case Study for Zimbabwe</p> <p>TS49.5 María-Loreto Advis N (Chile): Technical Unit: A Structure for Working on the Metadata Catalogue in Chile and the Technical Aspects of an NSDI</p> <p>TS49.6 Lien Dang, Hong Phong Dinh and Minh Hai Pham (Vietnam): Metadata for Digital Topographic Maps of Vietnam</p>
11:00–12:30 Osiris	<p>TS 50: Partnerships and Funding</p> <p>Commission: GSDI Chair: Dr. Olajide Kufoniyi, Nigeria Rapporteur: Prof. Dr. Hartmut Müller, Germany</p> <p>TS50.1 Bastiaan van Loenen (The Netherlands): The Role of Access Policies at the Local SDI Levels</p> <p>TS50.2 Bas Kok (The Netherlands): Partnership Building is a Crucial Element of the Dutch NSDI</p> <p>TS50.3 Peter Holland, Ian Williamson, Abbas Rajabifard and John Manning (Australia): Making the SDI Concept Relevant to Asia-Pacific Countries – The PCGIAP Experience</p> <p>TS50.4 Kevin McDougall, Abbas Rajabifard and Ian Williamson (Australia): Understanding the Motivations and Capacity for SDI Development from the Local Level</p> <p>TS50.5 Garfield Giff and David Coleman (Canada): Using Simulation to Evaluate Funding Models for SDI Implementation</p> <p>TS50.6 Mostafa Radwan, Yola Georgiadou and Walter de Vries (The Netherlands): The Public Private Partnership in the Mapping Industry: Lessons Learned</p>

Conference Programme – Thursday, 21 April

11:00–12:30 Nefertiti	<p>TS 51: GLOBAL MAPPING – Global Geo-information for Sustainable Development – Part II – Panel Discussion on Global Mapping</p> <p>Organiser: ISCGM Chair: Prof. Dr. Fraser Taylor, Chair of ISCGM Rapporteur: Dr. Karen Kline, Japan</p> <p>Six panelists will discuss various issues on the Global Mapping Project such as: What have been achieved? What challenges remain? What affects had the project had on sustainable development? What impact has this had on national mapping organizations and agencies? How can the goals and objectives of the project be more effectively disseminated to increase collaboration?</p> <p><i>Panel participants:</i> Moderator: Professor D. R. F. Taylor (Chair, ISCGM) <i>Panelists:</i> There will be six panelists representing the major regions of the world. These include:</p> <ul style="list-style-type: none"> • Nick Land (EuroGeographics) • Kombo Mwero (Survey of Kenya) • Francisco Hansen (INEGI, Mexico) • Gholam Fallahi (NCC, Iran) • Representative from North America: TBD • Representative from Oceania: TBD
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FIG Corporate Members

Category A – Platinum level



Category B – Gold level



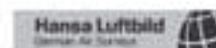
Category C – Silver level



Category D – Bronze level



Category E – Basic level



Category F – Regional level



Social Events

Welcome Reception

Welcome reception will be held on Sunday evening on the 17th April 2005 starting at 19:00 at the Intercontinental Semiramis Hotel. This reception is included in the registration fee.

Egyptian Night / FIG Foundation Dinner

A joint Egyptian Night and the FIG Foundation Dinner will be arranged on Monday evening on the 18th April 2005 starting at 19:00. The evening will include traditional Egyptian dinner with entertainment (traditional Egyptian music and dance). Part of the fee will go to the FIG Foundation to support young surveyors and geomatics in their research projects.

The dinner will take place at Al Ezba Restaurant at Sakkara green area (about 15 km south of Cairo).

Programme (draft)

- horse dancing reception
- folklore dances (Hagala Dance – Tanoura Dance)
- stick dance from upper Egypt
- dancing carnival with guests
- belly dancer
- DJ

Dinner (set menu)

- Egyptian & Lebanese salads
- Falafel
- Sauteed vegetables
- Oriental rice
- Egyptian pasta
- Tawood pasta with tomato sauce
- Vegetables
- Mixed grill (kebab-kofta-chicken)
- Dessert: oriental pastries + fruits
- Drinks: soft drinks and tea and coffee
- Not included: alcoholic drinks

Fee: 60 EUR

Gala Dinner

The highlight of the social events will be the Gala Dinner on Wednesday evening. Dinner with entertainment will be offered. The dinner will take place at the Royal Club Mohamed Aly (12 km south of Cairo on the Nile east bank shore).

Programme:

- DJ
- singer
- belly dancer

Dinner (open buffet):

- Apetisers: Different meza & salads
- Main courses: Rice bouche a la Reine-Ramakan; Chicken sambousak; stuffed wine leaves; noodles kobeba; sauteed vegetable; mixed grill (kebab-kofta-shish tawook - shawerma meat & chicken & chicken curry); different kinds of bread.
- Desserts: Fresh fruits, Om Aly, cakes
- Drinks: soft drinks
- Not included: alcoholic drinks

Fee: 60 EUR





A selection of local tours will be organised for delegates, as well as spouses:

S1-S3 Full-day Sightseeing in Cairo

Dates: Saturday 16 April, Sunday 17 April and Thursday 21 April

Time: Leaving from Semiramis Intercontinental at 8:30 return by 17:30 on Sunday by 16:30

Fee: 30 EUR includes entrance fees, lunch (soft drinks) and service charges.

Minimum number: 10 participants.

Programme: You will visit the Egyptian Museum, Citadel, Mosques, Bazaars and lunch at a famous restaurant.

S4-S6 Half-day sightseeing to the Pyramids and the Sphinx

Dates: Tuesday 19 April, Wednesday 20 April and Thursday 21 April

Time: Leaving from Semiramis Intercontinental at 10:30 and return by 14:30 on Tuesday and Wednesday and at 8:30 on Thursday with return by 12:30

Fee: 15 EUR includes entrance fees and service charges

Minimum number: 10 participants.

Programme: You will visit the Pyramids and the Sphinx

S7-S9 Half-day sightseeing to Cairo (Citadel and Khan El-Khalily)

Dates: Tuesday 19 April, Wednesday 20 April and Thursday 21 April

Time: Leaving from Semiramis Intercontinental at 14:00 and return by 18:00

Fee: 15 EUR includes entrance fees and service charges.

Minimum number: 10 people.

Programme: You will visit the Citadel and Khan El-Khalily

S10-S11 Egyptian Museum

Dates: Monday 18 April (for accompanying persons and others) and Thursday 21 April

Time: Meeting at the Egyptian Museum at 14:00 and return by 17:00

Fee: 15 EUR including entrance fees and guiding. Note: Visit to the Egyptian Museum on Monday 18 April is included in the registration fee of an accompanying person, for other participants fee is 15 EUR and on Thursday for all participants the fee is 15 EUR.

Minimum number: 10 people.

Programme: You will visit the Egyptian Museum.

Some attractions

Egyptian Museum

Visit to the Egyptian Museum with guide is included in the accompanying persons programme on Monday 18 April 2005.

Giza and the Pyramids

A sightseeing tour to Giza to see the Pyramids and the Sphinx is naturally one of the highlights of the visit to Cairo, as well as to the old town of Cairo and the souks and the Nile is worth a cruise either in the daylight or in the evening – or visit the city in the evening.

Technical Tours

The following technical tours are arranged:

TT 1 – Egyptian Survey Authority – ESA

Date: Tuesday 19 April

Time: Leaving from Intercontinental Semiramis Hotel at 10:30 and return by 13:00

Fee: 15 EUR

TT 2 – Information and Decision Support Center – IDSC

Date: Tuesday 19 April

Time: Leaving from Intercontinental Semiramis Hotel at 10:30 and return by 13:00

Fee: 15 EUR

TT 3 – National Water Research Center

Date: Tuesday 19 April

Time: Leaving from Intercontinental Semiramis Hotel at 10:30 and return by 17:00

Fee: 15 EUR

TT 4 – Smart Village: Cultural and Natural Heritage Center and City Development

Date: Wednesday 20 April

Time: Leaving from Intercontinental Semiramis Hotel at 10:30 and return by 17:30

Fee: 40 EUR including entrance fees, lunch (soft drinks) and service charges

TT 5 – Central Agency for Public Mobilization and Statistics (CAPMS)

Date: Tuesday 19 April

Time: Leaving from Intercontinental Semiramis Hotel at 10:30 and return by 13:00

Fee: 20 EUR

TT 6 – Remote Sensing Organisation

Date: Wednesday 20 April

Time: Leaving from Intercontinental Semiramis Hotel at 10:30 and return by 13:00

Fee: 20 EUR



Practical Information

Visa Requirements • Non-Egyptian visitors arriving in Egypt are required to be in possession of a valid passport. Entry visas may be obtained from Egyptian Diplomatic and Consular Missions Abroad or from the Entry Visa Department at the Travel Documents, Immigration and Nationality Administration (TDINA). It is, however, possible for most tourists and visitors to obtain an entry visa at any of the Major Ports of Entry. Please check with the nearest Egyptian Consulate for specific details and regulations relevant to your nationality. More information: <http://www.mfa.gov.eg/frames.asp?id=05>.

Health Requirements • Check with your own country's health guidelines for travelers to Egypt. For general health information we advise to look at WHO, UN's World Health Organization's travel and health information for Egypt.

Time • GMT +2 hours. Summertime (GMT +1 hour) observed from late April until end of September.

Money • Egyptian Pounds (EGP) is the local currency in Egypt. Exchange rate 1 USD = 5.80 EGP and 1 EUR = 7.52 EGP (April 2005). Major currencies can be changed nearly everywhere. Banks are in all cities as in most top end hotels. Automats for credit cards are found in most banks and mentioned hotels.

Travel Seasons • Top season in Egypt is the "winter season" which starts in October and lasts until end of April.

Climate • Egypt has lower temperatures during the winter season. Average temperature in Cairo in April is 28 degrees Celsius in daytime and 14 degrees in the night.

Food and Drink • Egypt is a meeting point between Africa, Europe and Asia and this is reflected in the different dishes. The last few hundred years influenced by Turkish cuisine due to the Turkish presence in Egypt. Still there is something Egyptian going through the diversity of the local cuisine, much with roots back to Ancient Egypt. Egyptian food can be "hot" – but not like many other cuisines where everything is hot. There is normally a lot to dip into, and all parts got their special taste. In general Egyptian food is a pleasant surprise for most visitors. All types of drinks are available.

Dress Code • In part of the big cities you will find Egyptians in the latest fashion from Europe or North America, while other places you will find dress customs most will define as "biblical".

In modern city areas, hotels and more "tourist" places – go as you please. If you go to different areas in same city or the countryside, the tradition will be more conservative. It is appreciated if you think about this while visiting these areas. For men, don't go without t-shirt in such areas, and for women – have a dress with around knee length and an upper part that cover your shoulders.

Apart from going inside a mosque, there is no place a woman is expected to wear headscarf. To go inside a mosque, both sexes will have to remove their footwear. Note that in churches it's also appreciated if women wear head scarf – and for men and women, no shorts in Churches and Mosques.

Conference Venue & Exhibitors



The conference venue Hotel Semiramis InterContinental Cairo.

Conference Venue and Accommodation

The conference is held at the Hotel Semiramis InterContinental, which is Cairo's premier hotel situated on the Nile. The Semiramis is in walking distance from the major shopping, commercial and business centers, the Egyptian Museum and the Cairo Opera House. The conference offers excellent meeting facilities to the conference and at the same time accommodation for reasonable prices. Other hotels in 3-4 star categories will be offered within walking distance or short drive.

Hotel Features

- Accommodation: 840 air-conditioned guest rooms and studios. Non-smoking floor. Two-Club Inter-Continental Floors.
- Restaurants: A choice of nine restaurants and bars, including French and Italian dining, night club and Casino.
- Services: 24 hour room service, laundry, color TV with CNN and satellite news.
- Recreation: Free-form swimming pool. Children's pool. Complete health club with gymnasium, sauna...
- Meetings: 10 function rooms are available for up to 2,000.

Semiramis Intercontinental Cairo

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www.ichotelsgroup.com/h/d/ic/1/en/hd/croha?irs=null

Exhibitors

Exhibition will be held in Kahmarama and Morgana halls. Opening of the exhibition will be on Monday at 10:30.

Opening hours

- Monday and Tuesday 10:30–17:30
- Wednesday 10:30–14:00.

1-4	Technoscient, Egypt
5-7	Geomap, Egypt
8	Giza Utility Center
9-10	Cairo Engineering Co.
11-13	Poster presentations
14	Greater Cairo Utility Data Center, Cairo Governorate
15-16	National Authority for Remote Sensing and Space Science
17	Egyptian Survey Authority (ESA)
18-20	Surveying Systems, Egypt
21,30	ESRI
22	Federal Geographic Data Committee FGDG, USA
23	ITC, The Netherlands
24	EEHC – Egyptian Electricity Holding Company
25-26, 34-35	Globe Telecom
27-28	International Federation of Surveyors, FIG/FIG 2006/FIG 2007
29	Lantmäteriet/Swedessurvey
31, 40	Trimble
32-33	FIG Congress 2010
38	Publications
39	GSDI / GSDI-9





From Pharaohs to Geoinformatics

In Co-operation with:



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UN ECA



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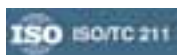
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