

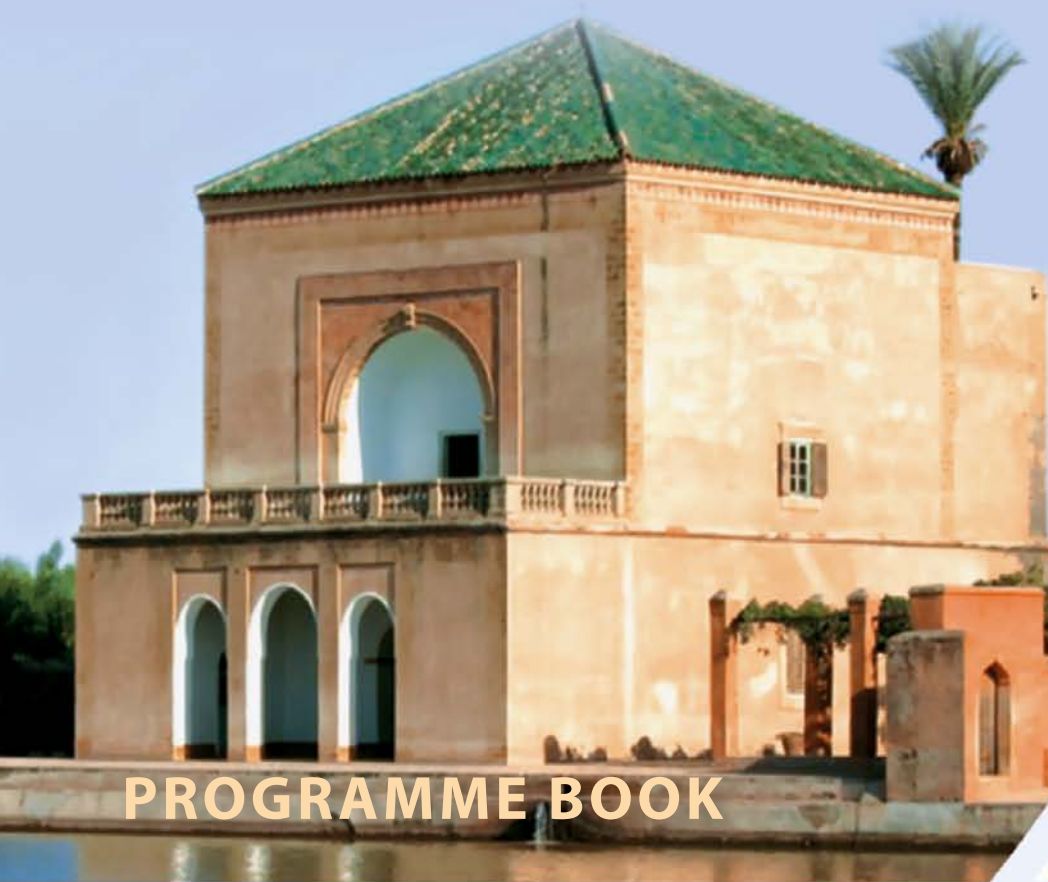
Under patronage of His Majesty King Mohammed VI

FIG Working Week 2011

& 6th National Congress of ONIGT

– Bridging the Gap Between Cultures

Marrakech, Morocco
May 18–22, 2011



PROGRAMME BOOK



Marrakech WW2011



Organised by:



INTERNATIONAL
FEDERATION OF
SURVEYORS



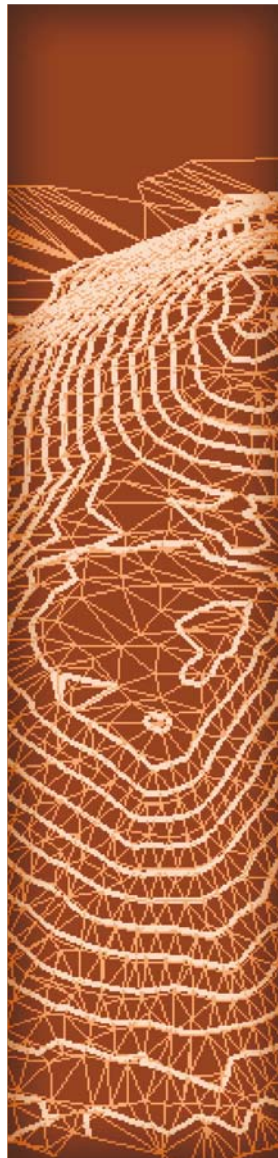
ORDRE NATIONAL
DES INGÉNIEURS
GÉOMÈTRES
TOPOGRAPHES

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Bridging the Gap Between Cultures FIG Working Week



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Du 18 au 22 Mai 2011

**FIG Working Week 2011 –
Bridging the Gap Between Cultures**
Organised under the patronage of His Majesty
King Mohammed VI

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Welcoming Message



Dear Guests,

On behalf of the Ordre National des Ingénieurs Géomètres topographes (ONIGT), the Moroccan order of surveyors, I welcome you to Marrakech, Morocco. I strongly appreciate that the FIG Working Week and the 6th ONIGT Congress are organized under the patronage of His Majesty King Mohammed VI of Morocco.

One of the cornerstones of ONIGT is that we must look after the principles of ethics, raising the level of the profession, share experiences and burnish on all levels. Over many years, those are the principle guiding the entire action of ONIGT to contribute in the creation of several international bodies operating as partners of the FIG at regional level.

Today, we are facing a huge challenge that can be summarized in how could we gather our efforts to promote our profession and contribute to the bridging between societies and cultures?

I am gladly certain and believe that the working week in Marrakech will be for an interesting model to exchange dialogue between cultures. It is a great response that we shall provide to opposite all appearances of intolerance.

I wish that the hundreds of lectures that will be presented during this week will bring into being a reference document, for all surveyors in the world, that shall contribute in building a harmonious society based on knowledge of others, tolerance, mutual understanding, respect of human rights and dignity.

Mr. Hilali Aziz
ONIGT President
Congress Director

Welcome to FIG Working Week 2011



Dear Friends,

It gives me great pleasure to welcome you to our 2011 Working Week jointly organized by FIG and Ordre National des Ingénieurs Géomètres Topographes (ONIGT), the Moroccan Order of Surveyors, in Marrakech, Morocco. This Working Week, under the patronage of

His Majesty King Mohammed VI of Morocco is the first Working Week of the current Council that began its term of office this January.

“*Bridging the Gaps between Cultures*” is an appropriate theme, not only is Marrakech the meeting point for the Arab, African and European cultures, the Working Week will bring together people of different cultures, diverse surveying traditions and varying professional experiences. As ONIGT continues to be active regionally, within the FGF (Francophone Federation of Surveyors), AUS (Arab

Union of Surveyors and UMG (Mediterranean Union of Surveyors), and with their active participation in FIG, will prove to be a worthy local host.

I welcome representatives of our partner organizations from United Nations, UN-HABITAT, GLTN and FAO, our sister organizations as well as every participant to this main FIG conference this year. We will have more than 1,000 participants from all continents at the biggest FIG Working Week in history. In technical programme we have more than 500 presentations in more than 90 technical sessions and forums. The programme should be of interest to participants from the world over. The exhibition at the Palais des Congrès is the biggest as any FIG annual conference. We can also look forward to outstanding social events at this year’s Working Week.

Welcome to Marrakech and FIG Working Week 2011.

Mr. **Chee Hai Teo**
FIG President

Welcome to FIG Working Week 2011



On behalf of the organizing committee of the FIG Working Week 2011, it is our pleasure to welcome you to Marrakech, Morocco from 18th to 22nd May 2011. This event is hosted by FIG and the National Board of Moroccan Surveyors (ONIGT) and is to be held at the Palais des

Congrès in Marrakech, under the patronage of His Majesty King Mohammed VI of Morocco.

The working week organised under the theme “*Bridging the Gap between Cultures*”, will gather professionals and academia members from various field connected to land surveying, GIS, spatial planning and management, and civil engineering.

The organising committee has been working very hard for long months so as to make your stay in Marra-

kech very pleasant on the cultural and touristic levels and scientifically very enriching.

Prof. **Mohamed Ettarid**
Chair of the Organising Committee

The International Federation of Surveyors, FIG



The International Federation of Surveyors is an international, non-government organisation whose purpose is to support international collaboration for the progress of surveying in all fields and applications. FIG is the premier international organization representing the interests of surveyors worldwide. It is a federation of the national member associations and covers the whole range of professional fields within the global surveying community. It provides an international forum for discussion and development aiming to promote professional practice and standards. FIG was founded in 1878 in Paris and was known as the *Fédération Internationale des Géomètres*. This has become anglicized to the International Federation of Surveyors. It is a UN-recognised non-government organization (NGO), representing more than 120 countries throughout the world, and its aim is to ensure that the disciplines of surveying and all who practise them meet the needs of the markets and communities that they serve.

FIG Council members (2011–2014):

- President: Mr. **CheeHai Teo** (Malaysia)
 - Vice-Presidents: Prof. **Dalal S. Alnaggar** (Egypt), Mr. **Iain Greenway** (United Kingdom), Prof. **Chryssy Potsiou** (Greece), Prof. **Rudolf Staiger** (Germany)
- ACCO Representative: Dr. **Michael Sutherland** (Canada / Trinidad & Tobago)

FIG's technical work is led by ten Commissions (Commission Chairs 2011–2014):

- Commission 1 – Professional Standards and Practice – Ms. **Leonie Newsham** (Australia)
- Commission 2 – Professional Education – Prof. **Steven Frank** (USA)
- Commission 3 – Spatial Information Management – Prof. **Yerach Doytsher** (Israel)
- Commission 4 – Hydrography – Dr. **Michael Sutherland** (Canada / Trinidad & Tobago)
- Commission 5 – Positioning and Measurement – Mr. **Mikael Lilje** (Sweden)
- Commission 6 – Engineering Surveys – Prof. **Gethin W. Roberts** (United Kingdom)
- Commission 7 – Cadastre and Land Management – Mr. **Daniel Roberge** (Canada)
- Commission 8 – Spatial Planning and Development – Mr. **Wafula Nabutola** (Kenya)
- Commission 9 – Valuation and the Management of Real Estate – Dr. **France Plimmer** (United Kingdom)
- Commission 10 – Construction Economics and Management – Mr. **Robert Sinkner** (Czech Republic)

Ordre National des Ingenieurs Géomètres Topographes, ONIGT



Ordre National des Ingenieurs Géomètres Topographes (National Order of Surveyors and Surveying Engineers) ONIGT has been constituted in 1994 and has more than 600 members. During the almost twenty years of its existence, through its dynamism and the serious work of its members, ONIGT has acquired full recognition by the authorities and by the various other national partners. The dedication of the council members of the ONIGT and their commitment to develop and enhance the level of topographers takes various forms and multiple actions aiming to maintain an adequate training level for its members and ensuring better organization of the profession.

On a regular annual basis, ONIGT takes care of organizing a scientific event of great importance and which brings together approximately 600 participants. The 6th

ONIGT Congress is organized as part of the FIG Working Week 2011.

The areas of interest to ONIGT include:

- surveyor and his role to serve the development needs of the rural world;
- regional development and partnership schemes;
- engineer in the service of local communities;
- geographical Information systems and their role in land-use planning;
- training/ job balance;
- fight against substandard housing;
- development of land law and land registration;
- inter-dependence between urban and rural areas for achieving sustainable environment;
- land for the service of development.

In addition to organizing scientific events, the ONIGT publishes a scientific magazine and has edited a charter of the surveyor and a reference guide related to the fees for

surveying services to upgrade the performance level of the profession.

The ONIGT is consulted regularly to give its point of view on draft-law projects discussed in the parliament and likely to have an impact on the profession.

The ONIGT joined FIG in 2001 and organized the FIG regional conference in Marrakech in 2003. ONIGT is a founding member of the Arab Union of Surveyors (AUS), the Federation des Geometres Francophones (FGF), and the Mediterranean Union of Surveyors (UMG).

Organising Committee

Steering Committee

- **CheeHai Teo**, FIG President, Chair
- **Aziz Hilali**, President, ONIGT, Vice Chair
- **Mohamed Ettarid**, Chair of the Organising Committee, ONIGT
- **Markku Villikka**, Director, FIG

Congress Director

- **Aziz Hilali**, President, ONIGT, Congress Director, FIG 2011

Organising Committee

- Prof. **Mohamed Ettarid**, Chair of the Organising Committee
- **Saïd El Azrak**, North Western Regional Council, ONIGT, Coordinator, Sponsoring Committee
- **Driss El Youssefi Oulahcen**, Centre Regional Council, ONIGT, President, Coordinator, Sponsoring Committee
- **Khalid Yousfi**, Secretary General, ONIGT,

Coordinator, Public and International Relations Committee

- Prof. **Moha El-Ayachi**, General Rapporteur, Scientific Committee
- **El Miloud Boutayeb**, Treasurer, ONIGT, Coordinator, Budget and Finance Committee
- **Mohammed Essadiki**, Coordinator, Communication and Dissemination Committee
- **Mostafa Al Batane**, Coordinator, Logistics Committee
- **Saïd Blili**, Coordinator, Marrakech Local Committee
- **Mouloud Rhiss**, Coordinator, Exhibition Committee

FIG Office

- **Markku Villikka**, FIG Director, Congress Director, FIG
- **Louise Friis-Hansen**, Conference Coordinator
- **Hanne Elster** Assisting Conference Coordinator



International Promotion Committee

- Prof. **Mohamed Bougous**, Ambassador, North America
- **Biar Hicham**, Ambassador, European Union
- **Bénédicte Fournier-Schmitt**, Ambassador, CLGE
- **Yaacoub Saade**, Ambassador, Middle East
- Dr. **Khaled El-Nabbout**, Ambassador, Foreign Arab Surveyors in Europe

Organising Committee of FIG 2011 welcomes you to Marrakech.



FIG Working Week 2011 Events

Detailed technical programme is presented in the separate Technical Programme Booklet.

General Assembly – Session I

Wednesday, 18 May 09:00–12:00 and 13:00–15:00

Salle Mazagan, Ryad Mogador Hotel, Ave. Mohammed VI, Marrakech

Welcome Reception

Wednesday, 18 May, 19:30–21:00

Mansour Eddahbi Hotel

Please join the welcome reception at the conference hotel with all other participants and enjoy snacks and drinks.

Opening Ceremony

Thursday, 19 May, 17:45–18:45

Salle des Ministres, Palais des Congrès

General Assembly – Session II

Sunday, 22 May, 11:00–12:30 and 14:00–15:00

Salle Royale, Palais des Congrès

Closing Ceremony and Farewell Reception

22 May, 15:00–16:00

Salle Royale, Palais des Congrès

Farewell Reception - Welcome to FIG 2012

22 May, 16:00–17:00

Foyer, Salle Royale, Palais des Congrès



Plenary Sessions

Plenary Session I – Knowledge and Technology Bridging the Gap between Cultures

Thursday 19 May 2011, 9:00–10:30

Salle des Ministres, Palais des Congrès

Chair: Mr. CheeHai Teo, FIG President

Rapporteur: Prof. Mohamed Ettarid, Chair, Organising Committee of FIG 2011

Keynote speakers:



Mr. **CheeHai Teo**, FIG President, Malaysia: *Bridging the Gap – Introductory Address*



Mr. **Aziz Hilali**, ONIGT President: *Bridging the Gap between Cultures – Introductory Address*



Dr. **Othman Skiredj**, Morocco: *Theory of the Creation of the Universes: A Way to Reconcile the Scientific Knowledge and the Realities of Our Spiritual Inheritance*

Dr. Othman Skiredj, born in 1940 in Settat in Morocco. Dr. Skiredj has Doctor of Sciences in Material Sciences at the Massachusetts Institute of Technology, “MIT” in 1963. He is a Permanent Member of “The Society Sigma Xi” dedicated to the promotion of the Scientific Researches in the USA in 1962.

His public functions include:

- Technical Director of the Office of Studies and Industrial Participations “BEPI” from 1963–1967.
- Professor, partial time, Solid State Physics and Thermodynamics and Kinetics at the Mohammedia School of Engineering from 1963 to 1967.
- Technical Advisor of the Personal Secretariat of His Majesty the King Hassan II from 1964 to 1967.

and private functions:

- Promoter and President-General Manager of the Private Society of Economical Development “SPDE” from 1967 to 1977.
- General Manager of “MEDIHOLDING” for the Promotion and the Participation in Industrial Projects, Telecommunication and in Petroleum Research and Exploration from 1977 to 2006.

Recognitions:

- Exceptional Order of Merit of the Kingdom of Morocco in 1967
- Commander of the Order of Merit of the Italian Republic in 1976.



Ms. **Aida Opoku-Mensah**, Director of the Division of ICT and Science&Technology, United Nation Economic Commission for Africa: *Concrete Leverage and Positive Outcomes in Geospatial Science and Technology in Bridging the Gap between Cultures in Africa*

Aida Opoku-Mensah, of Ghana, has worked on information ICT for development (ICT4D) initiatives throughout Africa. She has worked for the Ford Foundation ‘s West Africa office in Lagos, Nigeria, and served as Regional Director of Panos Southern Africa, based in Lusaka, Zambia. She has written extensively on the media, ICTs and development in Africa. Her publications include: Signpost on the Superhighway: African Environment; Up in the Air: the state of broadcasting in Southern Africa, as well as Democratising Access to the Information Society, a theme paper for the African Development Forum ‘99 on Globalisation and the Challenges to Africa of the Information Age. She has also edited and contributed to the following publications: African Networking: Development Information, ICTs and Governance; African Media and ICT4D: Documentary Evidence; Benchmarking the Information Society in Africa: Implementing the WSIS Plan of Action; Twin Peaks WSIS from Geneva to Tunis and E-commerce Challenges in Africa: Issues, Constraints, and ICTs as Tools for Democratisation for African Women.



Chris Gibson, Vice President and Executive Committee Member, Trimble Navigation Limited: *Knowledge and Technology Bridging the Gap between Cultures*

Chris Gibson has been with Trimble since 1998 in a variety of leadership roles including European finance and operations director, European managing director, division vice president for worldwide sales, general manager Global Services and most recently general manager for the Survey Division. In April of 2009, he was appointed to serve as vice president, responsible for the survey business, and executive committee member. In December 2010, his role was expanded to include a number of geographic regions and divisions, including building construction, cadastral, railway, construction tools, environmental and waste management as well as the Hilti joint venture.

Gibson worked for Tandem Computers for nine years based in both the UK and the Netherlands in a number of financial management roles and following the acquisition by Compaq he was the European Finance Director for the Tandem Business Unit.

Plenary Session II and the 6th National Congress of ONIGT – Governance and Regionalization

Friday 20 May 2011, 9:00–10:30

Salle des Ministres, Palais des Congrès

Chair: Mr. Sr Abdel Alkharafi, President, International Federation of Engineering Organizations

Rapporteur: Prof. Dalal S. Alnaggar, FIG Vice President, Egypt

Keynote speakers:



Mr. **Saad Hassar**, the State Secretary of the Ministry of Interior, Morocco

Mr. Saad Hassar, the State Secretary of the Ministry of Interior, began his career as head of the Inspection Service of the Department of Public Works. He was appointed Chief of the Division of Planning and programming in the same department. On January 1st, 1980 he was appointed Director of Development at the Office of Harbors Operation (ODEP) and also as the Director of Administration of Vocational Training and Management training.

He was Special Adviser to the Secretariat of His Majesty the King in supervising many projects such as Al-Akawayn University in Ifrane (1991), the international hospital and residential and cultural complex of Ifrane and the city of Sala AlJadida.

From January 1998 to 2002, Mr. Hassar was appointed Director General of the National Agency of Land Conservation, Cadastre, and Mapping. In December 2002, Mr Saad Hassar was appointed as Wali Manager of the Local Government Administrations.



Prof. **Omar Azziman**, the University of Law in Rabat, and Chairman of the Advisory Commission of Regionalization (RCC)

Omar Azziman, professor at the University of Law in Rabat and lawyer, is currently appointed as the Chairman of the Advisory Commission of regionalization (RCC).

Between 1993 and 1995, he served as Minister Delegate to the Prime Minister for Human Rights and had being appointed Minister of Justice between 1997 and 2002. He is a member of the Academy of the Kingdom of Morocco since

1996, and was appointed ambassador of Morocco to Spain in 2004. In March 2007 he was appointed honorary member of the Carlos III Foundation in recognition of his contribution and to the agreement between Morocco and Spain.

On 14 November 2006, he received the Spanish organization “Senior Forum,” an influential forum for reflection and dialogue, under the patronage of King Juan Carlos of Spain first, the price “Master of Or” entitling access to this prestigious inner circle which includes nearly 650 opinion leaders in various fields ranging from politics to culture through the economy, business, University, Armed Forces and the Church Spain.



Univ. Prof. Dr.-Ing. **Holger Magel**, Full Professor and Director of Institute of Geodesy, GIS and Land Management at the Technische Universität München, Germany and Honorary President of FIG: *Governance and Regionalization: New Paradigms for Transparent Politics and Accountable Civic Engagement*

Prof. Dipl.-Ing. Dr.-Ing. Holger Magel, born in 1944.

Since 1978 Acting with the Bavarian State Ministry of Food, Agriculture and Forestry in the Rural Development Department, in charge of building up the Bavarian Village Renewal Programme as well as establishing a new Method of Landscape Conservation and Regional Planning within Rural Development.

Since 1 Feb. 1995 Head of Department in the Ministry and Director General of the Bavarian Administration for Rural Development with a staff of about 2,000 engineers and technicians.

Since 1986 Lectures for geodesists, civil engineers and geographers at the Universität der Bundeswehr München (up to 1990) and the Technische Universität München.

In 1993 Appointment as an Honorary Professor for Rural Development at the Technische Universität München.

Since 1994 President of the Bavarian Academy for Rural Areas “Bayerische Akademie Ländlicher Raum e.V.”.

In 1992/93 Advisor of the European Commission for Rural Development in Eastern Germany.

1984–1995 Chairman of the German Bund-Länder Team for Village Renewal; member of the board of the European Association for Rural Development and Village Renewal. Acting as an expert in Eastern- and South Europe as well as in Asia and South America.

More than 300 expert publications and books on academic education, landscape planning, village and rural development, land management etc. (.see www.landentwicklung-muenchen.de).

Since 1998 Full University Professor (Ordinarius), Head of the Chair of Land Management and Joint Director of the Institute for Geodesy, GIS and Land Management, Technische Universität München.

Since 2001 Programme Director of the Master's Programme Land Management and Land Tenure for professionals at the Technische Universität München.

2003–2006 President of the International Federation of Surveyors.

Plenary Session III – Environmental Issues and Sustainable Development

Saturday 21 May 2011, 9:00–10:300

Salle des Ministres, Palais des Congrès

Chair: Prof: Mohamed Sadiki, President, Institute of Agronomy and Veterinary Medicien, Morocco

Rapporteur: Prof. John Hannah, Chair, FIG Task Force on Surveyors and Climate Change, New Zealand

Keynote speakers:



Mr. **Abdelkebir Zahoud**, Secretary of State to the Minister of Energy Mines, Water and Environment, Morocco

Abdelkebir Zahoud is currently the Secretary of State to the Minister of Energy Mines, Water and Environment, in charge of water and environment. He had an engineering degree from the School Hassania of public works in Casablanca, he served from 1978 to 1995 as head of service organization and methods to the general Directorate of hydraulics, then Secretary General of the School Hassania of Public Works.



Mr. **Kamel Ayadi**, International Consultant in Science Engineering and Technology

Mr. Kamel Ayadi served as a Secretary of State in the Tunisian government from 2004 to 2006 and as President of the Tunisian National Regulatory Authority of Telecommunications from 2001 to 2004.

Kamel Ayadi is the former President of the World Federation of Engineering Organisations (WFEO), Chairman of its Honorary Board, Founding Chairman of WFEO's Anti-Corruption Standing Committee since 2007. After having served in leadership positions in numerous engineering societies, including President of the Tunisian Order of Engineers, he was elected in October 2003 as the president-Elect of the World Federation of Engineering Organisations then served as Executive President from 2005 to 2007. Prior to that he served as Vice President of

the WFEO, Chairman of the standing Committee on ICT from 1999 to 2005.

He has written more than 50 papers and lectured in more than 60 congresses. He chaired more than 40 international events on science engineering and technology, including WEC2011 (Geneva), WEW 2010 (Buenos Aires), WFEO Congresses India 2007, Kuwait 2009.



Prof. **Stig Enemark**, Professor in Problem Based Learning and Land Management, Aalborg University, Denmark and FIG President 2007–2010: *The Climate Change Challenge: the Role of Land Professionals*

Prof. Stig Enemark, born 1943, Copenhagen, Denmark is the immediate Past President of the International Federation of Surveyors (FIG) and Professor in Problem Based Learning and Land Management, Aalborg University, Denmark (since 2003).

He has Master of Science in Surveying, Planning and Land Management 1966. License for private practice, 1970.

Professor Enemark has been Reader in Land Management, Aalborg University, Department of Development and Planning (1991–2003). Associate Professor and Senior Research Fellow, Aalborg University (1982–1991). Assistant Professor, Aalborg University (1979–81). Public Administration (1981–82). Consultant Surveyor in private practice (1968–1978).

Awarded the Danish Real Estate Prize 1991. Invited Fellow of RICS (Royal Institution of Chartered Surveyors, UK) since 1991. Appointed National Expert to the European Union in the areas of Land Management and Spatial Planning Systems, since 1993.

He has undertaken consultancies to the Danish National Government on Cadastral and Land Management issues, and to National Governments especially in Eastern Europe and Sub-Saharan Africa on the establishment of Land Administration Systems and related educational and capacity building issues.

He published several books, consultancy reports, and more than 250 articles on cadastre, land management and spatial planning, and on the interaction between Education, Research and Professional Practice. Invited papers presented to more than 60 International conferences.

Social Events

The social programme includes a Welcome Reception, Moroccan Evening (at the same time FIG Foundation dinner) and the Conference Dinner.

Welcome Reception

Wednesday 18 May 2011, 19:30–21:00

Venue: Mansour Eddahbi Hotel

Fee: Free

All registered delegates will attend the welcome reception at the Mansour Eddahbi Hotel (main conference hotel). During the reception, the guests will be entertained in an emblematic Moroccan fashion by a Folkloric Marrakchi Orchestra and show.

Moroccan Evening and FIG Foundation Dinner

Thursday 19 May 2011, 20:00–22:30

**Venue: Restaurant Palais des Jbilates,
Km 5, Route Principale de Casablanca, Jnane Kadate,
www.lepalaisdesjbilates.com**

Fee: 90 EUR including transfer from and to the hotel

The Moroccan evening and the FIG Foundation Dinner will offer an excellent opportunity to get to know about the Moroccan culture, music and meal in a unique atmosphere. The ochre city will provide its guests with various and beautiful animations and a first class Moroccan dinner.

Commission Dinners

Friday 20 May 2011, 19:00–22:30

Fee: On own expense.

More information: To be provided by Commissions.

Friday evening is reserved for Commission dinners and time on your own. Details of Commission dinners will be sent to Commission delegates.

Conference Dinner

Saturday 21 May 2011, 20:00–24:00

Venue: Le Pacha

**Fee: 120 EUR including transfer from and to the hotel,
entertainment and dinner**

The Conference Dinner will conclude the Working Week in grand style. It will offer the best that Marrakech and Morocco can offer both when it comes to cultural programme and to the meal.

During the dinner a wonderful spectacle of a thousand and one nights will be offered orchestrated by the famous dancer Scheherazade / reproduction of harem of belly dancers busy performing a choreographed oriental dance – beautiful – music & songs and dances.



Exhibition
Thursday 10:30–17:30 Friday 9:00–17:30 Saturday 9:00–12:30

Time	Tuesday 17 May	Wednesday 18 May	Thursday 19 May	Friday 20 May	Saturday 21 May	Sunday 22 May	Time
8:00	Registration 13:00–17:30	Registration 8:00–17:30	Registration 8:00–17:30	Registration 8:00–17:30	Registration 8:00–17:30	Registration 8:00–16:00	8:00
9:00	FGF General Assembly	FIG General Assembly I	Plenary Session I	Plenary Session II	Plenary Session III	Presidents' Meeting	9:00
10:00			ACCO Meeting	Coffee break	Coffee break		Coffee break
11:00		Lunch	Technical Sessions (10 parallel)	Acad. Memb.; GA Breakout Session	Technical Sessions (10 parallel)	FIG General Assembly II	11:00
12:00			Lunch	Lunch	Lunch		12:00
13:00		FIG General Assembly I	Technical Sessions (10 parallel)	Technical Sessions (10 parallel)	Technical Sessions (10 parallel)	Lunch (for GA)	13:00
14:00		FIG Comm. Annual Meetings	FIG Africa Task Force I; YSN Meeting	Dir. Gen. I; Corp. Memb.; Stand. Netw.;	Technical Sessions (10 parallel)	FIG General Assembly II/ Closing Ceremony	14:00
15:00		Trimble-Esri Preconference Workshop (in French)	Coffee break	Coffee break	Coffee break		15:00
16:00		UMG General Assembly	Technical Sessions (10 parallel)	Technical Sessions (10 parallel)	Technical Sessions (10 parallel)	Farewell Reception	16:00
17:00			Opening Ceremony (17:45–18:45)	AUS Meeting	Closing Ceremony of the 6 th National Congress of ONIGT		17:00
18:00				China Forum			18:00
19:00			Moroccan Evening & FIG Foundation Dinner	Free / Commission Dinners	Conference Dinner		19:00
20:00	ONIGT Dinner (by invitation)	Welcome Reception					20:00

Rooms for the Commission Annual Meetings:

- 18 May:**
 Comm 1 Karam 5
 Comm 2 Comm. MR 1
 Comm 3 Karam 1
 Comm 4 Reda 4
 Comm 5 Karam 2
- Comm 6 Reda 5
 Comm 7 Fes 2
 Comm 8 Karam 3
 Comm 9 Karam 4
 Comm 10 Reda 2

19–21 May:

Comm. MR 1 – MR 5 in the exhibition area

Technical Tours:

- TT 1 – New City of Tamnansourt**
 – Thursday 19 May, 14:30–16:30
- TT 2 – Hydraulic Basin Agency of Tensift**
 – Thursday 19 May, 14:30–16:30
- TT 3 – Urban Agency of Management and Building for Tensift Haouz**
 – Friday 20 May, 10:30–12:30
- TT 4, TT 8 and TT 9 – Marrakech Cadastre and Land Conservation Facility**
 – TT 8 Thursday 19 May, 14:30–16:30
 – TT 4 Friday 20 May, 10:30–12:30
 – TT 9 Friday 20 May, 15:00–17:00

TT 5 – RADEEMA : Autonomous Bureau of Management and Water and Electricity-Marrakech

- Friday 20 May, 15:00–17:00
- TT 6 – The Regional Office of Agricultural Development of Haouz**
 – Friday 20 May, 15:00–17:00
- TT 7 – Regional Directorate of Water and Forest**
 – Friday 20 May, 15:00–17:00

FIG Office:

- ASNI 1
ONIGT Office:
 AGDAL 1
FIG President:
 Fes 1A
ONIGT President:
 Fes 2A
Speakers Preparation Room: Reda 3

Technical Programme and Administrative Meetings

The FIG Working Week 2011 is a showcase of the work of FIG and its Commissions, Task Forces and Permanent Institutions. The technical program is underpinned by invited presentations and papers submitted through open call for papers. The authors have been able to submit their paper through peer review process, as a non peer review paper or for flash presentation. In total almost 500 papers are presented in 90 technical sessions and forums. The technical program will run in ten parallel sessions over three days. Detailed program is presented in the separate Technical Program brochure.

The main administrative meetings are the FIG General Assembly sessions on Wednesday 18 May and on Sunday 22 May 2011. These meetings are for FIG members but all congress participants are welcome to follow these meetings as observers.

All FIG Commissions have their annual and other administrative meetings on Wednesday 18 May from 15:00 to

17:00. These meetings are for national Commission delegates but also open for interested participants as observers. For additional commission and their working group meetings see the Technical Program.



Knowing to
Manage the territory
Protect the environment
Evaluate the cultural heritage

FIG
WORKING WEEK
6-11 MAY 2012
ITALIA ROMA

Consiglio Nazionale
Geometri e Geometri Laureati

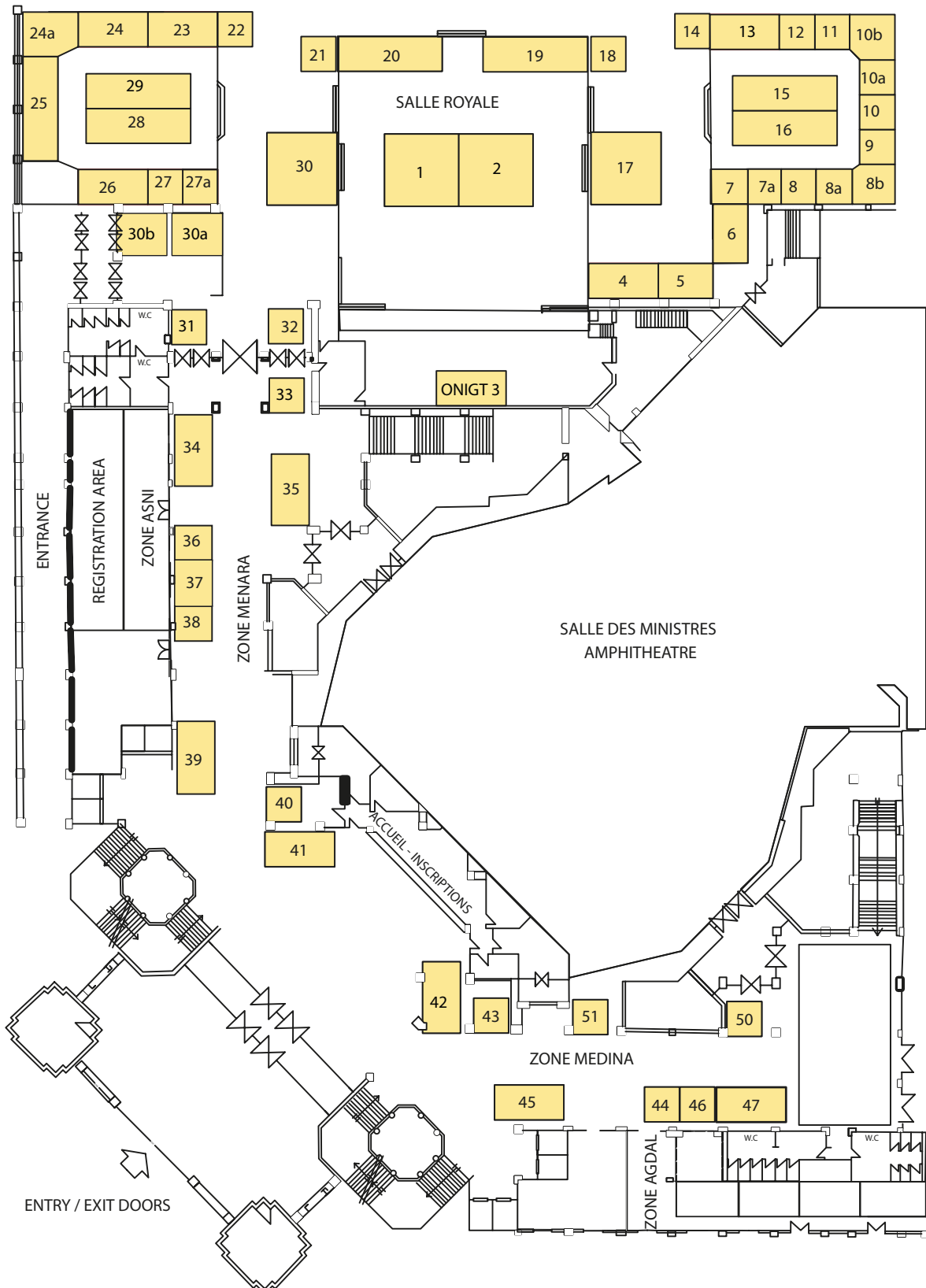
www.fig.net/fig2012

Exhibition




















































Palais des Congrès, Level 0

Opening hours

Technical exhibition will be opened on Thursday 19 May at 10:30 during the coffee break and it will be open on Thursday 10:30–17:30, on Friday 9:00–17:30 and on Saturday 9:00–12:30.



List of exhibitors

Booth		Company
1		Trimble, USA
2		ESRI, USA
3		ONIGT, Morocco
4		Faynot, France
5		Orbits Engineering, Saudi Arabia
6		ETAFAFAT, Morocco
7-12		Chinese Pavilion
7		Satellite Surveying and Mapping Application Center, SBSM
7A		Chinese Academy of Surveying and Mapping
8		Beijing Geo-Vision Technology Company Limited
8A		SuperMap Software Co., Ltd.
8B & 9		Tianditu Co., Ltd.
10		Hi-Target Survey Instrument Co., Ltd.
10A & B		SeaSky Geomatics Technologies Inc.
11		Sichuan Bureau of Surveying and Mapping
12		Shaanxi Bureau of Surveying and Mapping
13		GENEQ Inc, Canada
14, 18		COFMAT, Morocco
15-16		Ministère de l'Agriculture et de la Pêche Maritime/IAV
17, 20		Global Geosystems, Morocco
19		COFAS, Morocco
21		Geomax Suisse, Morocco
22		Taouhid, Sadiqi, and Baali Consortium, Morocco
23-24, 24A		Ministère de l'Habitat / Minister of Habitat
25		Secrétariat d'Etat chargé de de l'Eau et de l'environnement, Morocco
26		Bentley Systems, the Netherlands
27		National Office of Water – ONEP, Morocco
27A, 30A		SABR, Morocco
28-29		Ministry of Equipments and Transportations
		ANP: National agency of Harbors
		ADM: High Way of Morocco
		SNTL: National Society of Transportation and Logistics
		ONCF: National Office of RailWay
		ONDA: National Office of Airports
30		Leica Geosystems, Morocco
30B		
31		FIG Working Week 2013, Abuja, Nigeria
32		Robobat Maroc, Morocco
33-35		National Agency of Mapping – ANCFC, Morocco
36		South Surveying and Mapping Instrument Co., Ltd, China. P. R.
37		Neolt Graf, Morocco
38		FIG & FIG Congress 2014, Kuala Lumpur, Malaysia
39		SEPRET, Morocco
40		Fugro EarthData, Inc., USA
41		Pc Memoria+GEOMAP, Morocco
42		FIG Working Week 2012, Rome Italy and CNGGL, Italy
43		MDP Qualite, Morocco
44		
45		SETOM, Morocco
46		Créative Technologie, Morocco
47		Banque Populaire, Morocco
50		Kanq Digital Surveying & Mapping Co., Ltd., China P. R.
51		Bornes et Balises, France



THE FIG
FOUNDATION

The FIG Foundation – Building a Sustainable Future

The *FIG Foundation* is an independent body under the International Federation of Surveyors.

- The Foundation has been established for the purpose of raising funds to finance surveying education development projects and supporting young surveyors in order to build a sustainable future.
- The Foundation funds shall not be used to support the normal activities of FIG.
- The Foundation is administered by the FIG Office in Copenhagen and directed by a Board of five Directors appointed by the FIG Council.

The Directors of the Foundation will announce every year the scholarships and grants available.

How can I contribute?

Companies, associations, institutions, events, surveyors' groups and individuals may contribute to the Foundation by:

- Donations which will be recognised by a plaque or a certificate of different categories reflecting the sum of donation as follows:
 - platinum plaque EUR 25,000
 - gold plaque EUR 10,000
 - silver plaque EUR 5,000
 - bronze plaque EUR 1,000.
- Donations to support specific projects or by offering scholarships.
Donors and Benefactors may use the FIG Foundation logo to promote their project donations or scholarships.
- Voluntary donation when registering to FIG events.
- Attending social functions such as the FIG Foundation Dinners held during every FIG Congress and Working Week and other events.

Technical Tours

A selection of technical tours will be offered.

TT 1 – New City of Tamnsourt

Time: Thursday 19 May, 14:30–16:30

Price: 30 EUR, including transfers

Number of participants: 30 persons

This new city was designed and programmed for specific goals: reduce congestion in the city of Marrakech, polarize the urbanization of areas that are peripheral expansion, economic activity and create a nest several habitat types and equipment to create a complete and harmonious city.

This city will increase the supply as a fundamental component of the new approach to the fight against unhealthy housing and urban upgrading, it will also bring a solution to housing needs felt in Marrakech, generating an offer of 58,000 homes and will, moreover, to ensure a better living environment for the people in relocating 15,000 residents, currently housed in unhealthy tissues.

Similarly, 160 acres of neighborhood facilities and over 200 ha of afforestation and green spaces will be landscaped (planted over 100,000 trees over 40,000 palms).

Planning and architecture of Tamnsourt revolves around a multi-urban centrality and is characterized by a network of roads and green spaces important, adapted to the scale of this new town.

TT 2 – Hydraulic Basin Agency of Tensift

Time: Thursday 19 May, 14:30–16:30

Price: 30 EUR

Number of participants: 15 persons

The Agency of the Tensift River Basin was founded in 2000. Its principal missions are: evaluation, planning and the development of water resources; coordination of the integrated water management; preservation of the public water domain; and control and prevision of risks and extreme events, like draughts, water shortages and floods. The agency is in charge of preparation of the water resources master plan (PDAIRE) for the basin. authorizations.



TT 3 – Urban Agency of Management and Building for Tensift Haouz

Time: Friday 20 May, 10:30–12:30

Price: 30 EUR

Number of participants: 15 persons

Given that the urban planning is seen as a strategic axis in the National Initiative for Human Development (NIHD) and an important pillar in the housing policy and the fight against poverty, the Urban is a main tool following government guidelines for opening new areas for urbanization. The Urban Agency introduces new tools to ensure a balance between the city and its suburbs, to support investors, and to control urban sprawl. It also aims to create a land reserve to compensate malfunctions experienced by the city of Marrakech because of growing urban pressures. To achieve this goal, the Urban Agency conducted in coordination with various stakeholders and actors in urban planning several projects to ensure the availability of new new areas for urbanization. Most of the projects are covered by urban planning documents inside and outside the urban perimeters.

TT 4, TT 8 and TT 9 – Marrakech Cadastre and Land Conservation Facility

Time: TT 8 Thursday 19 May, 14:30–16:30

TT 4 Friday 20 May, 10:30–12:30

TT 9 Friday 20 May, 15:00–17:00

Price: 30 EUR

Number of participants: 15 persons for each tour

The main Institution dealing with land conservation and mapping is the National Agency for Land Conservation, Cadastre, and Mapping denoted ANCFCC. At the local level (municipalities and provinces), the ANCFCC has its Facility ensuring the performance of its mission colselly to the users.

The Facility is composed of two services, which are the Land Conservation Service and the Cadastral Service. The Land Conservation is responsible for registering land ownership, publishing the real rights, and ensuring land registration process to preserve land rights.



The Cadastral Service is a technical unit that meets the needs of land registration in terms of boundary delineation and cadastral mapping. It establishes, updates, and maintains the legal cadastre and national cadastre. It provides users with cadastral information linked to surveying activities carried out on behalf of the government, public institutions and local communities. It contributes to the achievement of land management programs, particularly the consolidation.

TT 5 – RADEEMA: Autonomous Bureau of Management and Water and Electricity – Marrakech

Time: Friday 20 May, 15:00–17:00

Price: 30 EUR

Number of participants: 15 persons

RADEEMA is an autonomous agency of the city of Marrakech responsible of water and electricity management. the core business of the agency is covering an area of 24,000 hectares and a population of 950,000 inhabitants. Its major concern is to support the significant development of sewerage service of the city of Marrakech, ensuring security of supply and proper management of water and electricity services.

The environmental and ecological component is at the center of the action taken by RADEEMA including



Young Surveyors Network



Young Surveyors Network is one of the latest networks established under FIG. The idea to form such a Network has been based on the need to increase the number of young surveyors participating at FIG events as well as promoting FIG as a global network for surveyors. The vision is to integrate the youth of the profession within FIG comes out with the aims of Young Surveyors Network:

- To improve the number of young professionals participating within the FIG.
- To help young professionals in the beginning of their careers with contacts.
- To increase co-operation between the commissions and young professionals.

In order to generate the seamless structure of the profession without any borders, Young Surveyors Network is the bridge between young and experienced colleagues. The group is dedicated for the next generation of the surveyors with support from today's experienced professionals. The Network consists of a board with young surveyors from different countries and a database pool of Young Surveyors' Members; from Undergraduate to PhD students and young professionals, mentors, academic members and sponsors.

More, the group has good connections with different international, regional and local organisations. The Network is a portal to provide the communication for all.

Beside the network, events are organised during FIG Working Weeks and Congresses. Special registration fees to the events are supported for the young surveyors from FIG. With the periodic e-newsletter and special event bulletins FIG YS keep its members updated with the technical, social information, opportunities and events.

We would like to welcome you to the Young Surveyors Network and attend the meetings at FIG Working Week 2011 in Marrakech.

There will be speed networking every afternoon during the coffee break in the exhibition hall and Young Surveyors Network meeting during the week.

treatment and reuse of wastewater. So the main actions have focused on strengthening basic infrastructures, securing water supplies and electricity, fight against pollution of the receiving environment and the protection of the environment and the widespread access to and services provided within the framework of the national initiative for human development.

TT 6 – The Regional Office of Agricultural Development of Haouz

Time: Friday 20 May, 15:00–17:00

Price: 30 EUR

Number of participants: 15 persons

The Regional Office of Agricultural Development of Haouz, is a public and autonomous institution runing under the Ministry of Agriculture, Rural Development and Fisheries. The Office is responsible for promoting agricultural development in the area of its action according to the agricultural policy adopted by the Government of the Kingdom. It covers the Wilaya of Marrakech, the province of El Kelaa Sraghna and part of the province of Azilal as a total as 663,000 ha. The ORMVA Haouz puts its human and material resources and its body of knowledge available to investors in the agricultural sector. The region has important assets, making it a magnet for important agricultural Investors.

TT 7 – Regional Directorate of Water and Forest

Time: Friday 20 May, 15:00–17:00

Price: 30 EUR

Number of participants: 15 persons

Visit to the Regional Directorate of Water and Forest, see more information of the agency: <http://www.eauxetforets.gov.ma/fr/index.aspx>.



Social Tours

ST 1 – The Majestic Ramparts

Time: Wednesday 18 May and Friday 20 May, 14:00–17:00

Price: 40 EUR, including bus and tourist guide

Group: 30 persons

Language: English and French

The ramparts of Marrakech, were built in the early twelfth century by the Almoravids. 10 meters high, about 19 km long, and flanked by 202 towers, they frame the Medina, and give an idea of the historical importance of the city. These walls built of adobe, present, depending on lighting, wonderful reflections glowing.

Nine majestic doors of Moorish allow access to the medina. Some of them have retained their original architecture and worth a visit.



ST 2 – Square Jamaa El Fna and Souks

Time: Thursday 19 May and Saturday 21 May, 14:00–17:00

Price includes bus and tourist guide

Group: 30 persons

Language: English and French

The place remains the main square of Marrakech, used equally by locals and tourists. During the day it is predominantly occupied by orange juice stalls, youths with chained Barbary apes, water sellers in colourful costumes with traditional leather water-bags and brass cups, and snake charmers who will pose for photographs for tourists. As the day progresses the entertainments on offer change: the snake charmers depart, and in the afternoon and evening the square becomes more crowded, with dancing, story-tellers, magicians, and peddlers of traditional medicines.

The square is edged along one side by the Marrakech souk, the traditional North African markets which service both the common daily needs of the people of the city, and the tourist trade. Narrow streets lead into the alleys of the medina quarter, the old city. The UNESCO classifies the square as the Oral and Intangible Heritage of Humanity with the aim to raise awareness about the importance of oral and intangible heritage as an essential component of cultural diversity.



ST 3 – Marrakech Museums

Time: Friday 20 May, 14:00–17:00

Price: 40 EUR, including bus, entrance fees and tourist guide

Group: 30 persons

Language: English and French

Marrakech has a fair collection of museums which display artefacts relating to the city's rich Moroccan past. Just about every museum within Marrakech is housed in an impressive building of some sort, either originating as a palace or a mansion that displays fine forms in their own right.

The **Dar si Said Museum** is a particular must-see that does rather stand out. The Marrakech Museum is situated in the stunning 19th century **Dar M'Nebhi Palace**, next to the Medersa Ben



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The National Agency for Land Conservation, Cadastre and Mapping (ANCFCC) exercises on behalf of the State the powers recognized by the laws and regulations to provide public services linked to the land registration, cadastral and mapping to ensure land ownership. The Agency shall accomplish the following task:

- Registration of land ownership
- Advertisement and the preservation of rights and real property charges affecting the property registered or pending registration
- Conservation of archives, land records, and public disclosure of information contained therein
- The cadastral mapping serving the mission of the land registration
- The establishment and maintenance of the National Cadastre
- The establishment and revision of the topographic map of the kingdom at all scales
- The project work of basic infrastructure for utility surveying and leveling
- Coordination, centralization and preservation of topographic and photogrammetric documentation prepared by the government, local authorities and public institutions
- Centralization and Conservation in consultation with governments and agencies, information on vacant land belonging to the State, the Public Endowments, to Guich, ethnic communities and local public facilities located within the perimeters of urban centers, as well as delineated within their periphery.

The National Agency for Land Conservation, Cadastre and Mapping has also many duties in the topics entrusted to it by law 58-00:

- Provide initial and ongoing training of staff
- Conduct research and development related to its mission
- Collect and disseminate any information deemed useful to its business.

Youssef. The Museum is visited as much for its architecture as it is for its contents. The central atrium is massive and covered by a domed tent supported by pillars, and there are many exhibitions inside showing off paintings, ceramics, and photography.

ST 4 – Sumptuous and Ancient Palaces of Marrakech

Time: Sunday 22 May, 9:00–12:00

Price: 40 EUR, including bus and tourist guide

Group: 30 persons

Language: English and French

The **El Bahia Palace** and gardens were built in the late 19th century, intended to be the greatest palace of its time. The palace as in other buildings of the period in other countries, it was intended to capture the essence of the nations style. There are 160 different rooms in the palace which are sprawled out in an open, rambling fashion.

The **Saadian Tombs** were built in the time of Sultan Ahmad al-Mansur (1578–1603), of the Saadi dynasty. The tombs are sumptuous and wonderful with the cemetery garden alive with rich fragrances of rosemary and roses, with large palm trees providing shade.

The **Badi' Palace** was built in the Qasba during the reign of Muhammad al-Shaykh al-Mansur (1578–1603). It was one of the most beautiful buildings in the Muslim world and impressive for its size; just the inner court is 135 by 110 metres and had 360 rooms.

ST 5 – Fabulous Gardens by Attractive Horse and Carriage

Time: Saturday 21 May, 14:00–17:00

Price: 45 EUR, including horse carriages and tourist guide

(4 persons per horse carriage)

Group: 40 persons

Language: English and French

The **Menara Gardens** are located to the west of Marrakech, at the gates of the Atlas mountains. They were built in the 12th century (c. 1130) by the Almohad ruler Abd al-Mu'min. The name menara derives from the pavillon with its small green pyramid roof (menzeh). The pavilion was built during the 16th century Saadi dynasty and renovated in 1869.

The **Gardens of Agdal** are located south of the Royal Palace in the Kasbah area, the Agdal Gardens are divided by a central alley, stretch out hundreds of hectares of splendid 12th century orchards and olive groves. The **Majorelle Gardens** was created by French artist Jacques Majorelle in the 1920s. They are built around his studio which now houses a museum. They are in the middle of the city but once you get inside the doors of the gardens it feels like you are a million miles away.

It can also perform when needed, the tasks subject to the provisions of Law No. 30-93:

- Conduct studies and provide technical and legal assistance in connection with its missions to the benefit of administrations and public institutions, local authorities and any person, who requests it
- Participate in studies and implementation of measures related to land structures of farms
- Participate with the departments concerned in the preparation of documents relating to land use
- Participate with the authorities concerned at the government's action in the field of urban planning
- Establish thematic maps.



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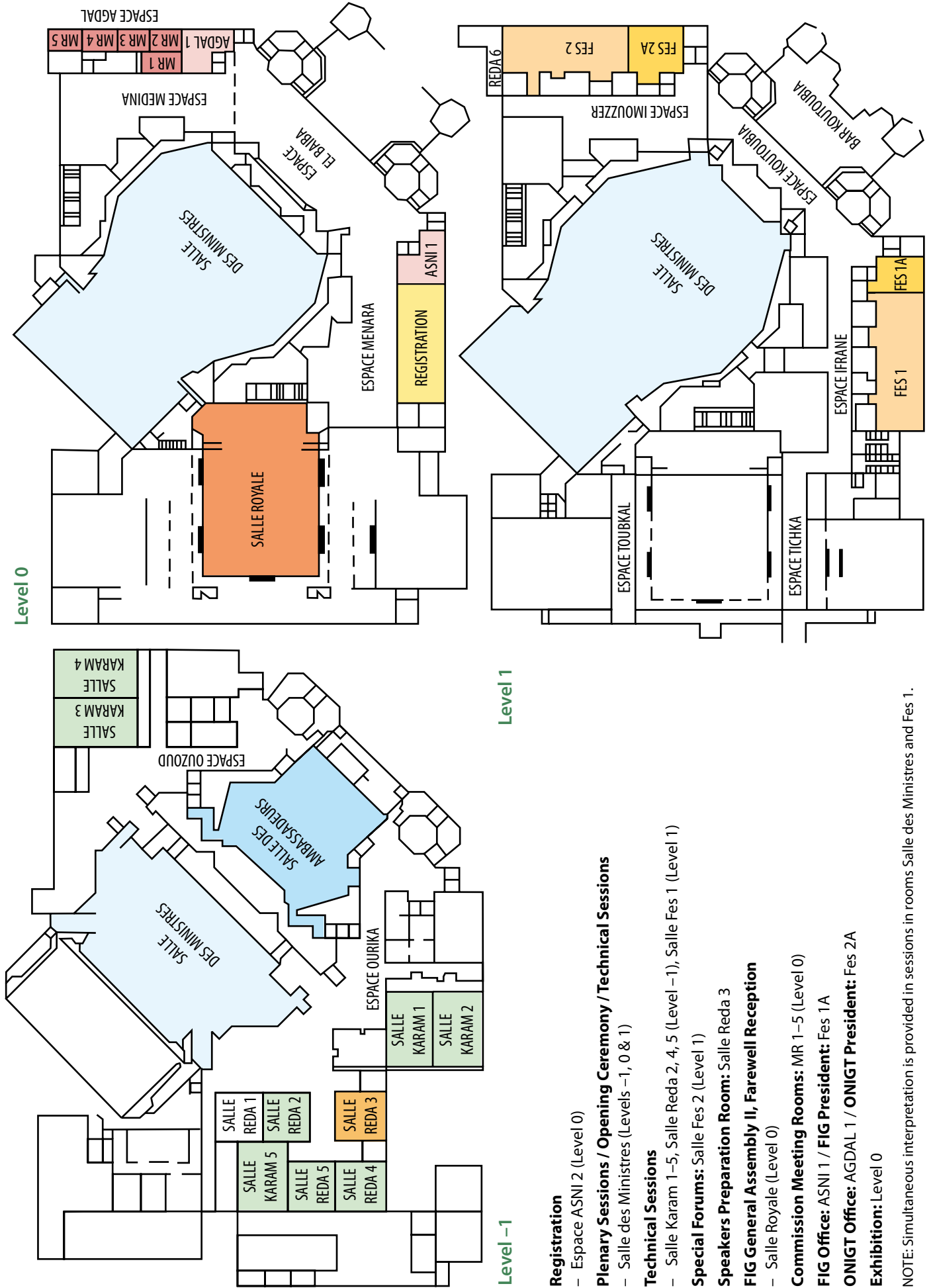


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Registration

- Espace ASNI 2 (Level 0)

Plenary Sessions / Opening Ceremony / Technical Sessions

- Salle des Ministres (Levels -1, 0 & 1)

Technical Sessions

- Salle Karam 1-5, Salle Reda 2, 4, 5 (Level -1), Salle Fes 1 (Level 1)

Special Forums: Salle Fes 2 (Level 1)

Speakers Preparation Room: Salle Reda 3

FIG General Assembly II, Farewell Reception

- Salle Royale (Level 0)

Commission Meeting Rooms: MR 1-5 (Level 0)

FIG Office: ASNI 1 / FIG President: Fes 1A





ONIGT Office: AGDAL 1 / ONIGT President: Fes 2A

Exhibition: Level 0








NOTE: Simultaneous interpretation is provided in sessions in rooms Salle des Ministres and Fes 1.

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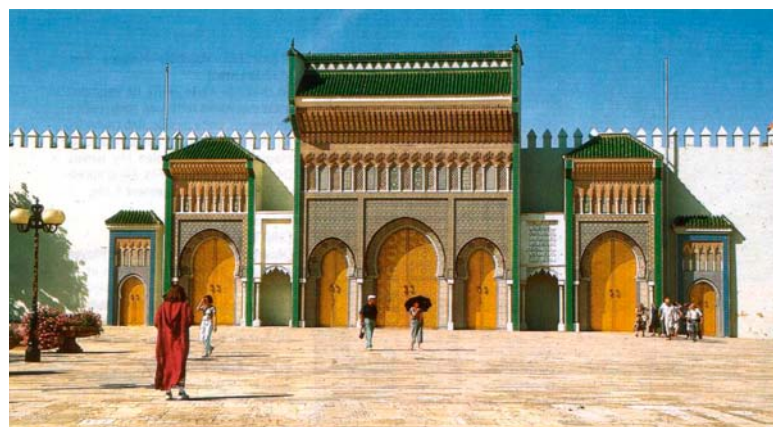
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Conference web site

www.fig.net/fig2011
www.onigt.ma/fig2011 (French and Arabic)

Conference proceedings web site

www.fig.net/pub/fig2011

Forthcoming events

FIG Working Week 2012 – Territory, Environment and Cultural Heritage

6–11 May, Rome, Italy
www.fig.net/fig2012

FIG Working Week 2013

May/June 2013
Abuja, Nigeria

25th FIG Congress

May/June 2014
Kuala Lumpur, Malaysia