

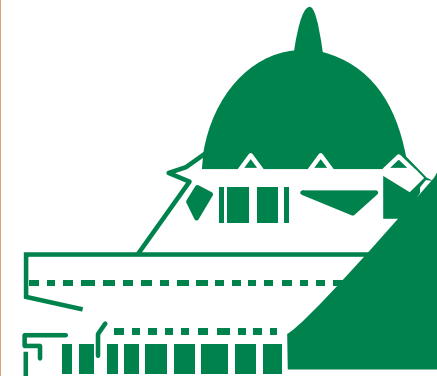


FIG Working Week 2013

Abuja, Nigeria 6–10 May TECHNICAL PROGRAM



ENVIRONMENT FOR SUSTAINABILITY



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The FIG Working Week 2013

Technical Program

Saturday, 4 May 2013

Joint UN-Habitat GLTN and FIG Social Tenure Domain Model (STDM) Training of Trainers Workshop for Young Surveyors /Professionals

Saturday, 4 May 09:00–17:00
Venue: Obafemi Hall, NLH
Chair: Ms. **Kate Fairlie**, Chair of FIG Young Surveyors Network
Rapporteur: Ms. **Eva-Maria Unger**, Chair Elect of FIG Young Surveyors Network

- Mr. **Danilo Antonio**, Global Land Tool Network (GLTN) UN-Habitat
- Mr. **Solomon Njogu**, Global Land Tool Network (GLTN) UN-Habitat
- Closed event

Registration Desk

The registration desk for international delegates is located at the Ground Floor, and for Nigerian delegates at the Lower Floor of the Nicon Luxury Hotel.

Opening Hours:

- Sunday 5 May 13:00–18:00
- Monday 6 May 08:00–18:00
- Tuesday 7 May 08:00–18:00
- Wednesday 8 May 08:00–18:00
- Thursday 9 May 08:00–18:00
- Friday 10 May 08:00–16:00

Speakers' Preparation Room

The Speakers' Preparation Room is located at the Nicon Luxury Hotel. Upon arrival please ask at the registration desk for direction.

Opening hours:

- Monday 6 May 12:00–18:00
- Tuesday 7 May 08:00–18:00
- Wednesday 8 May 08:00–18:00
- Thursday 9 May 08:00–18:00

Sunday, 5 May 2013

FIG ACCO Meeting

Sunday, 5 May 09:00–17:00
Venue: Lagos, NLH
Chair: Prof. **Rudolf Staiger**, FIG Vice President, Germany

- Chairs of FIG Commissions
- By invitation only

Joint UN-Habitat GLTN and FIG Social Tenure Domain Model (STDM) Training of Trainers Workshop for Young Surveyors /Professionals

Sunday, 5 May 09:00–17:00
Venue: Obafemi Hall, NLH
Chair: Ms. **Kate Fairlie**, Chair of FIG Young Surveyors Network
Rapporteur: Ms. **Eva-Maria Unger**, Chair Elect of FIG Young Surveyors Network

- Closed event

FIG Council Meeting

Sunday, 5 May 17:00–19:00
Venue: Ebonyi, NLH
Commission: FIG Council
Chair: Mr. **CheeHai Teo**, FIG President

- By invitation only

NIS Dinner

Sunday, 5 May 20:00–23:00
Venue: To be announced

- By invitation only

Monday, 6 May 2013

FIG General Assembly – Session I

Monday, 6 May 09:00–12:00
Venue: Conference Hall, NLH
Chair: Mr. **CheeHai Teo**, FIG President

- For all FIG members
- Open for observers

Joint UN-Habitat GLTN and FIG Social Tenure Domain Model (STDM) Training of Trainers Workshop for Young Surveyors /Professionals

Monday, 6 May 09:00–17:00
Venue: Obafemi Hall, NLH
Chair: Ms. **Kate Fairlie**, Chair of FIG Young Surveyors Network
Rapporteur: Ms. **Eva-Maria Unger**, Chair Elect of FIG Young Surveyors Network

- Closed event

FIG General Assembly – First Session – cont.

Monday, 6 May 13:00–15:00
Venue: Conference Hall, NLH
Chair: Mr. **CheeHai Teo**, FIG President

- For all FIG members
- Open for observers

Welcome Reception

Monday, 6 May 16:00–19:00
Pool Area, NLH

- All registered participants as well as accompanying persons are invited to attend the official Welcome Reception. This is an excellent opportunity to renew old friendships and make new acquaintances as we welcome you to Abuja with a flavor of Nigerian culture.

Tuesday, 7 May 2013

Opening Ceremony

Tuesday, 7 May 09:00–10:30
Venue: Africa Hall, ICC

- All delegates and registered accompanying persons are invited to attend the official Opening Ceremony. You will be greeted by Ushers dressed to reflect the culture spectrum of Nigeria with traditional music and dances at the entrance to the Africa Hall. We are pleased to announce that the President of the Federal Republic of Nigeria, Dr. **Goodluck Ebele Jonathan** will be the guest speaker.

Tuesday 11:00–12:30

Plenary Session 1: Governance and Approaches

Tuesday, 7 May 11:00–12:30
Venue: Africa Hall, ICC
Chair: Mrs. **Chryssy Potsiou**, FIG Vice President, Greece
Rapporteur: Mr. **Olumide Adewebi**, Secretary General, NIS Co-Chair

- Dr. **Joan C. Kagwanja**, Chief Land Policy Initiative, UNECA
- Mr. **Remy Sietchiping**, Project leader, Global Land Tool Network (GLTN) UN-Habitat
- Prof. **Peter O. Adeniyi**, Chairman, Presidential Technical Committee on Land Reform, Nigeria



FIG Academic Members Forum

Tuesday, 7 May 14:30–16:00
Venue: Ahmadu Bello Hall, NLH
Chair: Dr. **Chryssy Potsiou**, FIG Vice President, Greece

- This Forum is for FIG Academic Members as well as interested participants who are from academic and research institutions to meet and discuss developments, challenges and opportunities within the academic and research arena

Joint UN-Habitat GLTN/FIG Surveyor Generals Roundtable/Director Generals Forum

Tuesday, 7 May 14:30–16:00
Venue: Lagos, NLH
Facilitator: Dr. **Solomon Abebe Haile**, GLTN

Rapporteur and Summary: Dr. **Christiaan Lemmen**, FIG OICRF

- This joint session brings together chief executives or director generals (or their representatives/nominees) of national mapping, cadastral and land administration organizations from around the world to discuss among peers approaches to safeguard, secure, support and sustain land rights for all
- By invitation only

Africa Task Force: What Future for Land Professionals in Africa

Tuesday, 7 May 14:30–16:00
Venue: Niger Hall, ICC
Chair: Ms. **Diane Dumashie**, Chair, FIG Task Force on Africa
Rapporteur: Mrs. **Gertrude N. Njar**, Nigeria

- Panel discussion

TS01A – Administration in Africa 1

Tuesday, 7 May 14:30–16:00
Venue: Executive Hall, ICC
Commission: 7
Chair: Ms. **Diane Dumashie**, Chair, FIG Task Force on Africa
Rapporteur: Mr. **Peter Laarakker**, Netherlands

Muhammad Bashar Nuhu (Nigeria):

An Appraisal of the Need for a Comprehensive National Policy for Land Management in Nigeria (6458)

Tarek Zein (Germany), **Zerihun Amdemariam Berisso** (Ethiopia) and **Paul Hartfiel** (Germany):
Addis Ababa: The Road Map to Progress through Securing Property Rights with Real Property Registration System (6648)

Frank Pichel (USA), **Chiemeka Ngwu** (Nigeria), **Nigel Edmead** (United Kingdom) and **Bassey Ika Oqua** (Nigeria):
Streamlining Land Administration and Governance in Cross River State, Nigeria (6572)

Bareng Malatsi (Botswana) and **Åke Finnström** (Sweden):
Progress of Reformation of Land Administration in Botswana (6589)

TS01B – National Geodesy and Geospatial Infrastructure I

Tuesday, 7 May 14:30–16:00
Venue: Conference Hall I, NLH
Commission: 5
Chair: Mr. **Volker Schwieger**, Germany
Rapporteur: Mr. **Rui Fernandes**, Portugal

Peter C. Nwilo, **Joseph D. Dodo**, **Reuben U. Edozie** and **Adeyemi Adebomehin** (Nigeria):
The Nigerian Geocentric Datum (NGD2012): Preliminary Results (6524)

Aune Rummukainen (Finland):
Land Uplift and Its Effects in Finland – the Bothnian Bay as an Example (6389)

Ebenezer Yemi Ogunbadewa (Nigeria):
Designing a Geospatial Framework for Land Administration in Ondo State of Nigeria (6302)

Ugochukwu Edozie and **Adeyemi Adebomehin** (Nigeria):
Development and Sustainability of NIGNET – Nigerian GNSS Network and the Relation with AFREF (6631)

Chukwubueze Onwuzuligbo, **Victor Nnam** and **Joseph Ejikeme** (Nigeria):
Adequate Geodetic Infrastructure: The First Step to Sustainable Development (6447)

TS01C – Water

Tuesday, 7 May 14:30–16:00
Venue: Conference Hall III, NLH
Commission: 8
Chair: Mr. **Wafula Nabutola**, Chair of FIG Commission 8, Kenya
Rapporteur: Mrs. **Benedicta Ugwulebo**, Nigeria

Mingzhou Qin, **Bin Li** and **Zhang Pengyan** (China, PR):
High Population Beaches Land Safety Use Planning of the Yellow River Lower Reaches Under the Conditions of Artificial Flood Control (6579)

Adedayo Alagbe, **Stephen Aboderin** and **Oluwole Adeniran** (Nigeria):
Delineation of Flood Vulnerable Zones and Disaster Risk Management along Asa River: a GIS Approach (6636)

P. C Nwosu, **D. N. Olayinka**, and **P. C. Nwilo**, (Nigeria):
Generation of flood maps and drainage basin of Umueze Anam (6647)

Isola Ajibola and **Mansor Shattri** (Malaysia):
UAV-Based Imaging for Environmental Sustainability – Flash Floods Control Perspective (6548)

Godstime James, **Shaba Halilu**, **Alhassan Nuhu**, **Alade Teslim** and **Gabriel Yusuf** (Nigeria):
Space-Based Disaster Management in Nigeria: The Role of the International Charter “Space and Major Disasters” (6539)

Macbeda Uche Michael-Agwuoke (New Zealand) and **B. O. Ekpete** (Nigeria):
Adding value to municipal solid waste in Nigeria through mapping (6550)

TS01D – GeoSpatial Applications

Tuesday, 7 May 14:30–16:00
Venue: Conference Hall II, NLH
Commission: 3
Chair: Prof. **Francis Fajemirokun**, Nigeria
Rapporteur: Prof. **Oliver Ojinnaka**, Nigeria

Madi-Jimba Yahya Yahya (Kenya):
Geographic Information Tools in the Service of Heritage Conservation in a World Heritage Site (6372)

Obinna Anejionu, **Francis Okeke**, **Elochukwu Moka** and **Victus Uzodinma** (Nigeria):
Mapping Spatiotemporal Variations of Land Surface Temperature in South East Nigeria with Landsat (6427)

Njike Chigbu (Nigeria):
The Role of Geospatial Technology in Environmental Sustainability in Nigeria – an Overview (6555)

Anthony Adeoye (Nigeria):
Towards the development of Spatially Enabled e-Land Administration for Good Governance in Lagos State: Benefits and Risks (6557)

Elzbieta Bielecka (Poland):
Data Integration within Public Property Management Systems (6575)

TS01E – Surveying Today and Tomorrow

Tuesday, 7 May 14:30–16:00
Venue: Obafemi Hall, NLH
Commission: 1
Chair: Mr. **Winston Ayeni**, Nigeria
Rapporteur: Mrs. **Benedicta Ugwulebo**, Nigeria

François Mazuyer (France) and **Marc Vanderschueren** (Belgium):
The Federation of French Speaking Surveyors (6676)

Fosu Brempong (Ghana):
Geographical Information System (GIS) For Nation Building and Good Governance in Africa Continent (6591)

Brian J Coutts (New Zealand):
Redefining the Profession of Land Surveying (6558)

Leonie Newnham (Australia):
A New Way of Working for Surveying Professionals – How the Changes to Communications and Social Media are Creating New Opportunities for Connecting to Others (6617)

Rafic Khouri (France):
The Licensed Surveyor in the French city (6686)

Michael Cramer, **Volker Schwieger**, **Dieter Fritsch**, **Wolfgang Keller** and **Alfred Kleusberg** (Germany):
GEOENGINE – The University of Stuttgart International Master Program with More than 6 years of Experience (6689)

French Speaking Session – Cadastre

Tuesday, 7 May 16:30–18:00
Venue: Ahmadu Bello Hall, NLH
Chair: Mr. **Marc Vanderschueren**, Belgium
Rapporteur: Mr. **Francis Roy**, Canada

Marc Vanderschueren (Belgium):
Bornage, Bonne pratique et la Convention entre le Géomètre privé et le Cadastre belge. Boundary demarcation, Best Practices and the Convention between the Private Surveyors and the Belgian Cadastre (6541)

Rafic Khouri (France):
Geographic Distribution of Licensed Surveyors in France and Their Public Service Delegation. Répartition des géomètres experts sur le territoire français pour assurer la délégation de service public (6657)

André Houssein (Madagascar) and **Marc Vanderschueren** (Belgium):
From de Torrens System to the Multipurpose Cadastre. Opportunities and Procedures for applying in the Case of Madagascar. Du système Torrens au cadastre polyvalent. Opportunités et modalités d'application dans le cas de Madagascar (6700)

François Luanda Lutahera, **Valentin Basubi Lungele** and **Méthode Bagurubumwe Uhoze** (Democratic Republic of Congo):
Le Rôle du Géomètre au Kivu. The Role of the Surveyor in the Province of Kivu (6707)

Roch Bah (Benin):
The Feasibility of an Integral Cadastre in the South of Sahara (Africa). La Faisabilité d'un Cadastre Intégral en Afrique, au Sud du Sahara (6709)

TS02A – Administration in Africa 2

Tuesday, 7 May 16:30–18:00
Venue: Executive Hall, ICC
Commission: 7
Chair: Mr. **Ari Tella**, Finland
Rapporteur: Dr. **David Mitchell**, Australia

Gary Strong, Alexander Aronsohn and **Ben Elder** (United Kingdom):
Innovative Approaches To Spatially Enabling Land Administration and Management (6716)

Eunice Macharia and **Winnie Mwangi** (Kenya):
The Role of Professional Bodies in Formulation of Government Policy Through Research. A Case Study of the Institution of Surveyors of Kenya Research on Devolved System of Governance (6595)

Olusola Atilola (Nigeria):
Systematic Land Titling and Registration in Nigeria: Geoinformation Challenges (6653)

Kingsley Orisakwe and **Gidado Bakari** (Nigeria):
On the Development of Cadastral Information System for Part of Kofare Government Residential Area in Jimeta-Yola in Adamawa State of Nigeria (6678)

YSN: Workshop/Discussion on Crowd Sourcing Information and Using Social Networking

Tuesday, 7 May 16:30–18:00
Venue: Benue Hall, ICC
Commission: 1, 2, 9 and 10
Chair: Ms. **Kate Fairlie**, Chair of FIG Young Surveyors Network
Rapporteur: Ms. **Eva-Maria Unger**, Chair Elect of FIG Young Surveyors Network

TS02B – National Geodesy and Geospatial Infrastructure II

Tuesday, 7 May 16:30–18:00
Venue: Conference Hall I, NLH
Commission: 5
Chair: Mr. **Ivo Milev**, Germany
Rapporteur: Mr. **Pasi Häkli**, Finland

Bashkim Idrizi (Macedonia, FYROM):
Developing Model for Utilization of Global Earth Gravimetric Models in Macedonian Territory (6597)

Rui Fernandes (Portugal), **Mustapha Meghraoui** (France), **Jorge Miguel Miranda** and **Machiel Bos** (Portugal):
Present-day strain field of Africa derived from the GNSS Velocity Field (6628)

Victus Uzodinma and **Raphael Ehigiator-Irughe** (Nigeria):
Removal of Inconsistencies Arising from Multiplicity of Transformation Parameters in Nigeria (6552)

Matthew N. Ono, Chukwubeze Onwuzuligbo and **Timothy Ogonobo** (Nigeria):
Evaluating Geodetic Control Network of Awka Capital Territory of Anambra State for Sustainable Development (6363)

Abayomi Ayoola, Adeyemi Adebomehin, Kufre Eko (Nigeria) and **S Andre** (Portugal):
The role of CORS GNSS data for climate monitoring: case study using the NIGNET network (6632)

Joint UN-Habitat GLTN/ FIG Surveyor Generals Roundtable/Director Generals Forum

Tuesday, 7 May 16:30–18:00
Venue: Lagos, NLH
Facilitator: Dr. **Solomon Abebe Haile**, GLTN
Rapporteur and Summary: Dr. **Christiaan Lemmen**, FIG OICRF
– By invitation only

TS02C – Landuse and Landcover

Tuesday, 7 May 16:30–18:00
Venue: Conference Hall III, NLH
Commission: 8
Chair: Mr. **Anthony Adeoye**, Nigeria
Rapporteur: **V. C. Nnam**, Nigeria

Raphael Olaniyi Oyinloye (Nigeria) and **Joseph Oloukoi** (Benin):
An assessment of the Pull between Landuse and Landcover in Southwestern Nigeria and the Ensuing Environmental Impacts (6685)

Kurotiminipre Appah L and **Winston Ayeni Abayomi** (Nigeria):
Land Use / Land Cover changes in Yenagoa, Bayelsa State (6384)

Zhang Yan-yu, Wang Jing and **Jin Zhi-feng** (China, PR):
Spatial Strategy for Regional Land Use –A Case Study in Jiangsu Province (6560)

Michael Oke (Nigeria):
Agricultural and Rural Development Strategist: a Case Study of the Effort of the Millennium Development Goal Office in the Federal Capital Territory in Improving Food Security in Nigeria (6326)

TS02D – GIS, Mapping Technology and GeoSpatial Implementations

Tuesday, 7 May 16:30–18:00
Venue: Conference Hall II, NLH
Commission: 3
Chair: Prof. **Yerach Doytsher**, Chair of FIG Commission 3, Israeli
Rapporteur: Prof. **Bashkim Idrizi**, Macedonia

Shlomi Sivan (Israel):
3D-GIS in the Cloud. The future of GIS (6501)

Wali Islam (Nigeria) and **Shattri Mansor** (Malaysia):
Design and Implementation of an Open Source Web-based GIS Framework for Rapid Development of Business Intelligence Applications (6592)

Li Zonghua (China, PR):
SDI Construction and Its Applications in Wuhan Municipality, China (6662)
This paper will not be presented at the Working Week

Stanley Iwundu (Nigeria):
Environment for Sustainability (6670)

Ekpo Effiong, Felix Iyiola, Mary Liwhu, Phillip Ibe and **Adedayo Alagbe** (Nigeria):
Inventory of Tourism in Crossriver State, Nigeria Using GIS (6683)

Alaaya Bolaji Abdulhaleem, Adetimirin Oluwafemi Idowu and **Alagbe Adedayo Olujobi** (Nigeria):
Investigation of Ground Water Reservoir in ASA and Ilorin West Local Government of Kwara State Using Geographic Information System (6694)

Nigerian Evening / FIG Foundation Dinner

Tuesday, 7 May 19:30–23:00
Venue: The Conference Hall, NLH

- The dinner offers a night of rich displays of Nigerian culture and art with a three course dinner of the delicious Nigerian cuisine. One of the guest speakers will be the Minister of the Federal Capital Territory, Senator **Bala Abdulkadir Muhammed**.
- Sponsored by Trimble
- A ticket is required

FIG Commission Annual Meeting

Wednesday, 8 May 08:00–09:00
Commission: FIG Commission delegates 1–5

Meetings in following rooms:

- Commission 1: Obifema Hall
- Commission 2: Benue Hall
- Commission 3: Niger Hall
- Commission 4: Ahmadu Bello Hall
- Commission 5: Conference Hall III

TS03A – Land Administration and Sustainable Development

Wednesday, 8 May 09:00–10:30
Venue: Executive Hall, ICC
Commission: 7
Chair: Mr. **Peter van Oesterom**, Netherlands
Rapporteur: Mr. **Ari Tella**, Finland

Co Meijer (Netherlands): Essential Balance between the Business and ITC to Support Sustainable Land Administration (6714)

Juhana Hiironen and **Kirsikka Niukkanen** (Finland): Possibilities to Reduce Nutrient Loads to Water System in Land Consolidations (6431)
This is a peer reviewed paper.

David Mitchell (Australia): How an Effective Spatial Data Infrastructure Can Support Land Administration in Vietnam? (6440)
This is a peer reviewed paper.

Paul van der Molen (Netherlands): How Land Administration Can Contribute to Food Security (6471)

Ludmiła Pietrzak (Poland): Importance of a Real Estate Cadastre as the Basic, Reference Public Register in the Sustainable Country Development (6513)

TS03B – Remote Sensing for Landuse and Planning

Wednesday, 8 May 09:00–10:30
Venue: Ahmadu Bello Hall, NLH
Commission: 7 and 9
Chair: Mr. **Tommy Österberg**, Sweden
Rapporteur: Mr. **Nuhu Muhammed**, Nigeria

Victor, Chukwuemeka Nnam, John, Okwor Nnam and Uchekukwu Godwin Nnam (Nigeria): Assessment of Urban Development Using Supervised Classification of Remotely Sensed Imageries and GIS, A Case Study of Independence Layout (Part of), Enugu, Nigeria (6388)
This is a peer reviewed paper.

Obinna Anejonu, Peter Nwilo and Elijah Ebinne (Nigeria): Long Term Assessment and Mapping of Erosion Hotspots in South East Nigeria (6448)

Innocent C. Ezeomodo and Joel Igbokwe (Nigeria): Mapping and Analysis of Landuse and Landcover for Sustainable Development Using High Resolution Satellite Images and GIS Technique (6421)
This is a peer reviewed paper.

Henry Odusi (Nigeria): Remote Sensing and Environmental Management of Nigeria's Coastal wetlands (6378)

Godwin, Uchekukwu Nnam, John, Okwor Nnam and Victor Chukwuemeka Nnam (Nigeria): Object Based Image Classification for Mapping Urban Land Cover Pattern; A case study of Enugu Urban, Enugu State, Nigeria (6387)

TS03C – Positioning and Navigation – Today and Tomorrow

Wednesday, 8 May 09:00–10:30
Venue: Conference Hall I, NLH
Commission: 5
Chair: Mr. **Dirk Kowalewski**, Germany
Rapporteur: Mr. **Dennis Killian**, Germany

Volker Schwieger (Germany) and **Mikael Lilje** (Sweden): Innovative and Cost-effective Spatial Positioning (6692)

Rui Fernandes, João Palma, Hugo Valentim, Pedro Venâncio and Nuno Gonçalves (Portugal): Optimizing GNSS CORS Networks at Remote Locations (6630)

Ogundipe Olurojo (United Kingdom): The Smart Phone as a Surveying Tool (6626)
This is a flash presentation.

Jad Jarroush (Israel): Regular Digital Camera as a Practical Geodetic Measurement Tool: Issues and Challenges (6515)

Gintcho Kostov (Bulgaria): Applying of the Mobile Versions of Google Earth and AutoCAD for Field Control of a Specialized map of a Large Urban Garden (6660)
This is a flash presentation.

Joint UN-Habitat/FIG Commission 7 Session on Participatory and Inclusive Land Readjustment (PiLaR)

Wednesday, 8 May 09:00–10:30
Venue: Benue Hall, ICC
Commission: 7
Chair: Mr. **Christiaan Lemmen**, Netherlands
Rapporteur: Ms. **Kate Fairlie**, Chair of FIG Young Surveyors Network

- **Christiaan Lemmen** (Netherlands): Land Readjustment: An Introduction
- **Abebe Haile Solomon** (Kenya): "Participatory and Inclusive Land Readjustment" (PiLaR) as a governance tool to reduce Slums and Promote Orderly City Extension
- **Danilo Antonio** (Kenya): UN-Habitat Policy Paper on Land Readjustment
- Panel Discussion: Land Re-adjustment, UN-Habitat and FIG

TS03D – The Use of Geoinformation

Wednesday, 8 May 09:00–10:30
Venue: Conference Hall III, NLH
Commission: 8
Chair: Prof. **Francis Okeke**, Nigeria
Rapporteur: Dr. **Lola Olayinka**, Nigeria

Oloyede Kosoko (Nigeria): Geospatial Application in Public Health: Using Geographical Information Systems to Model the Spread of Tuberculosis (6313)

Rohan Bennett, Jaap Zevenbergen (Netherlands), **Monica Lengoiboni** (Rwanda), **Gordon Okuma Wayumba** and **Shadrack Omondi** (Kenya): The Pastoralist's Parcel: Towards Better Land Tenure Recognition and Climate Change Response in Kenya's Dry Lands (6556)

Wasieu Adedamola Akewusola (Nigeria): Social Housing: A Means of Even Development for the Developing Nations – Nigeria as a Case Study (6312)

Matthew Ibitoye and Aderemi Adediji (Nigeria): Relating Urban Parameters to Gully Development in Southwestern Nigeria (6571)

Wafula Nabutola (Kenya): Legalization Framework for Informal Development and the Built Environment in Kenya (6695)

TS03E – Surveying Education in Africa

Wednesday, 8 May 09:00–10:30
Venue: Obafemi Hall, NLH
Commission: 2
Chair: Mrs. **Liza Groenendijk**, Netherlands
Rapporteur: Mr. **Steven Frank**, Chair of Commission 2, United States

Liza (E.M.C.) Groenendijk (Netherlands), **Seid Hussien** (Ethiopia), **Monica Lengoiboni** (Rwanda), **Moses Musinguzi** (Uganda) and **Gordon Wayumba** (Kenya): Land Administration Academic Education in Eastern Africa (6469)

Anwuri Okwere (Nigeria): Enhancing Survey Training in the third millennium (6434)

Jennifer, Eziaku Chigbu and Unekwuojo Pamela Agbonika (Nigeria): Role of "Women in Surveying" in Environmentally Sound and Sustainable Development (6627)

Chan KH (Hong Kong SAR, China): Assessing Sustainable Higher Education for Surveying and Construction (6436)
This is a peer reviewed paper.

Member Association's Presidents/Head of Delegation Forum

Wednesday, 8 May 09:00–10:30
Venue: Niger Hall, ICC
Chair: Surv. (Hon) **Bode Adeaga**, NIS President

- This Forum brings together Presidents (or their representatives) or Heads of Delegation of Member Associations and provide them the opportunity to meet, network and discuss



Plenary Session 2: Technologies and Systems

Wednesday, 8 May 11:00–12:30

Venue: Africa Hall, ICC

Chair: Mr. **John Hannah**, Chair, FIG Task Force on Surveyors and Climate Change
Rapporteur: Mr. **Gene Amako**, Vice President – International Affairs NIS Co-Chair

- Dr. **Hussein Omar Farah**, Director General, Regional Centre for Mapping of Resources for Development (RCMRD)
- Surv. (Prof.) **Peter C. Nwilo**, Surveyor General, Office of the Surveyor-General of the Federation, Nigeria
- Mr. **Bryn Fosburgh**, Vice President, Divisional, Trimble Navigation Ltd

Joint UN-Habitat GLTN/FIG Surveyor Generals Roundtable/ Director Generals Forum

Wednesday, 8 May 14:30–16:00

Venue: Lagos, NLH

Facilitator: Prof. **Rudolf Staiger**, FIG Vice President
Rapporteur and Summary: **Jean Du Plessis**, GLTN

- By invitation only

Task Force on Property and Housing

Wednesday, 8 May 14:30–16:00

Venue: Benue Hall, ICC

Chair: Dr. **Chryssy Potsiou**, Chair, FIG Task Force on Housing and Property

Rapporteur: Mr. **Collins Kowuor**, Kenya

- **Ugo Chime**, Member Board of Trustees of the Real Estate Development Association of Nigeria (REDAN): *Informal Development in Nigeria*
- **Anthony Okwa**, Immediate Past Executive Secretary, Real Estate Development Association of Nigeria (REDAN): *Social Housing/Affordable Housing Policy in Nigeria*

TS04A – Innovative Cadastre and Land Rights Management

Wednesday, 8 May 14:30–16:00

Venue: Executive Hall, ICC

Commission: 7

Chair: Mr. **Jaap Zevenbergen**, Netherlands

Rapporteur: Dr. **David Mitchell**, Australia

João Paulo da Fonseca

Hespanha de Oliveira (Portugal),

Christiaan Lemmen and **Jaap Zevenbergen** (Netherlands):

Can LADM Contribute to a More Fair Large Scale Land Acquisition? (6442)

Jesper Paasch

 (Sweden),

Peter van Oosterom (Netherlands),

Jenny Paulsson (Sweden) and

Christiaan Lemmen (Netherlands):

Specialization of the Land Administration Domain Model (LADM) – A Legal Approach (6533)

Rohan Bennett

 (Australia) and

Jaap Zevenbergen (Netherlands):

Bio-Inspired Cadastral Boundary Design (6534)

Christian Thellufsen

 and **Jakob**

Højgaard-Geraae (Denmark):

Business Cases in the World of Geo Data – Quantifying Qualitative Benefits (6537)

Jing Ying

 (China, PR), **Bennett**

Rohan (Australia) and

Zevenbergen Jaap (Netherlands):

'Up-to-date' in Land Administration: Setting the Record Straight (6549)

Robin McLaren

 (United Kingdom):

Engaging the Land Sector Gatekeepers in Crowdsourced Land Administration (6574)

TS04B – Planning and Development

Wednesday, 8 May 14:30–16:00

Venue: Ahmadu Bello Hall, NLH

Commission: 7 and 9

Chair: Mr. **Francis Roy**, Canada

Rapporteur: Mr. **Kwame Tenadu**, Nigeria

Joseph Obaje Ataguba

 (Nigeria):

Land Management Gaps Accounting for Persistent Open-Air Trading in Rural Markets of North-Central Nigeria (6435)

This is a peer reviewed paper.

Ibrahim Usman Jibril

 (Nigeria):

Implementation of the Master Plan of Abuja, Nigeria, 1976 – 2012: A view from a Land Manager (6599)

Julius Olujimi

 and **Abdullateef**

Bako (Nigeria):

Physical Planning Implications of Access to Residential Land and Legal Security of Tenure in Lagos Metropolis, Nigeria (6438)

Adebayo Eludoyin

 (United Kingdom),

Lanre Ajibade, **Oyenike**

Eludoyin, **Abidemi Agboola** and

Olugbenga Oyeku (Nigeria):

Environmental Sustainability: How relevant is spatial information system to groundwater quality assessment? (6588)

TS04C – GNSS CORS

Wednesday, 8 May 14:30–16:00

Venue: Conference Hall I, NHL

Commission: 5

Chair: Dr. **Ganiyu Agbaje**, Nigeria

Rapporteur: Dr. **Godstime James**, Nigeria

Pasi Häkli

, **Ulla Kallio** and **Jyrki**

Puupponen (Finland):

From Passive to Active Control Point Networks – Evaluation of Accuracy in Static GPS Surveying (6446)

This is a peer reviewed paper.

Felix Iyiola

, **Rasheed Ogundele**,

Caleb Oluwadamilare and

Olajide Kufoniya (Nigeria):

Integrity Check on Ground Control Points Using NIGNET's Continuously Operating Reference Stations (CORS) (6512)

Murat Meha

, **Muzafer Çaka** and

Reshat Murati (Kosovo):

Kopos-Kosovo Positioning System (6551)

Dennis Kilian

 (Germany):

CORS Networks Today and Tomorrow – Latest Improvements and Applications (6690)

Ioan Stoian

 and **Vasile Nacu**

(Romania):

Measurement Methods Regarding the Quotations of a Permanent GNSS Station in Altitudinal System MN 75 (6577)

This is a flash presentation.

TS04D – GIS Tools and Techniques

Wednesday, 8 May 14:30–16:00

Venue: Conference Hall III, NLH

Commission: 8

Chair: Mr. **Anthony Adeoye**, Nigeria

Rapporteur: Mr. **V. C. Nnam**, Nigeria

Njike Chigbu

 (Nigeria):

Harnessing the Tourism Potentials of Obafia State Using Advanced Geospatial System Techniques – A Review (6554)

Banji Adeleye

 and **Gbenga**

Morenikeji (Nigeria):

Using GIS and Remote Sensing Tools in Assessing the Development Pattern of Minna Suburban in Niger State, Nigeria. A Case Study of Gidan Kwano and Gidan Mangoro Settlements (6465)

Cheruty Shay

 (Nigeria):

GIS/LIS-Best Practice in Nigeria (6623)

Lekan Adeniran

, **Ekpo Effiong**

and **Victor Ibekwe** (Nigeria):

Application of Geographic Information System (GIS) in Internal Security Operations a case study of Jos north LGA (6682)

TS04E – History Session

Wednesday, 8 May 14:30–16:00

Venue: Obafemi Hall, NLH

Chair: Mr. **John Brock**, Australia

Rapporteur: Mrs. **Benedicta Ugwulebo**, Nigeria

John Brock

 (Australia):

The Boundary Stones of Tutankhamun's Father – Akhenaten's City of the Sun (6562)

Peter Laarakker

 (Netherlands):

Surveying in Nigeria 1978-1980 (6691)

Winston A. Ayeni

 (Nigeria):

History of Training of Surveyors in Nigeria (6712)



Events and Locations

NLH = Nicon Luxury Hotel
ICC = The International Conference Centre

Registration:

- International Delegates: NLH Ground Floor
- Nigerian Delegates: NLH Lower Floor

Welcome Reception:

- NLH Pool Area

Opening Ceremony:

- ICC Africa Hall

FIG General Assembly:

- NLH Conference Hall

Plenary Sessions:

- ICC Africa Hall

Conference Rooms:

- NLH: Conference Hall I, Conference Hall II, Conference Hall III, Obafemi Hall and Ahmadu Bello Hall, Lagos Meeting Room
- ICC: Africa Hall, Executive Hall, Benue Hall, Niger Hall

Speakers' Preparation Room:

- NLH

Exhibition:

- ICC Abuja Hall and NLH

FIG President:

- NLH Ebonyi

NIS President:

- NLH Delta

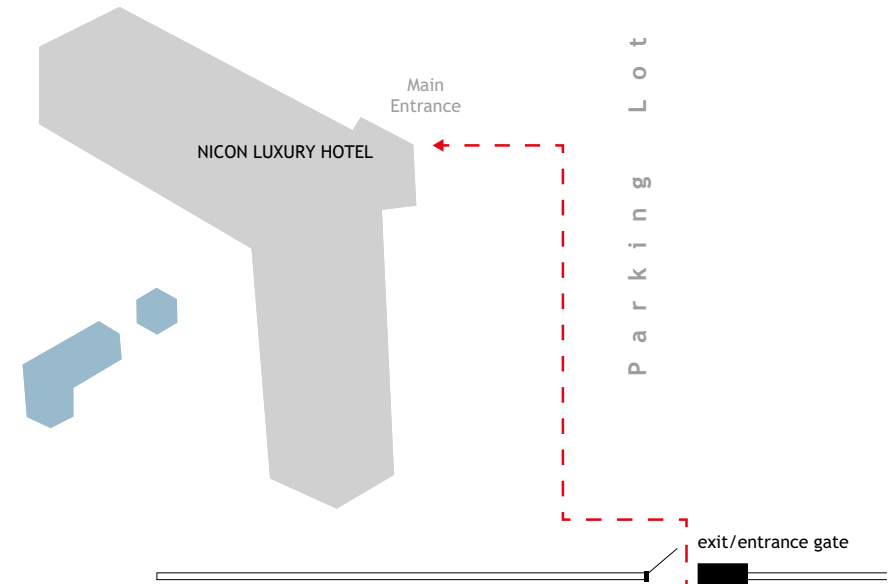
FIG Office:

- NLH Ondo

NIS Office:

- NLH Kaduna

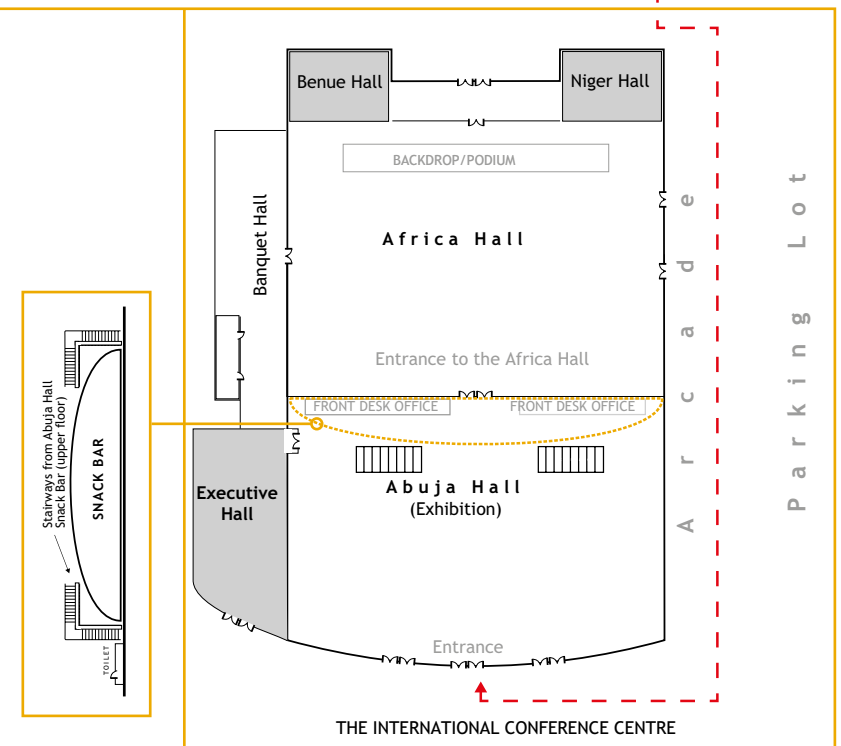
Nicon Luxury Hotel



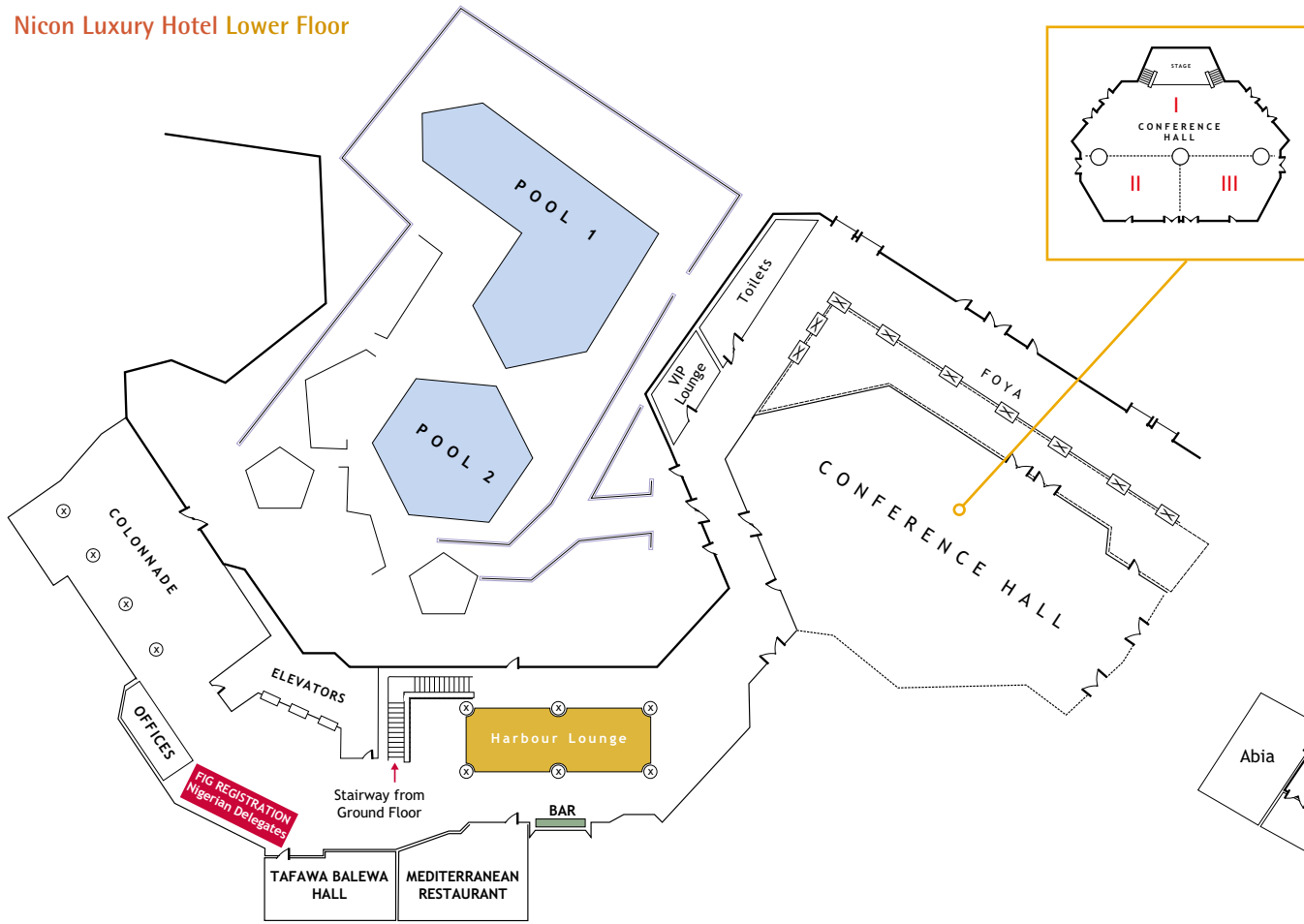
The International Conference Centre



Nicon Luxury Hotel shares a fence with the International Conference Centre from the parking space. The two venues can be accessed, by walking, through a Security Gate at the fence. The alternative is to drive around the block from either of the buildings.



Nicon Luxury Hotel Lower Floor



Lunch and Coffee Breaks

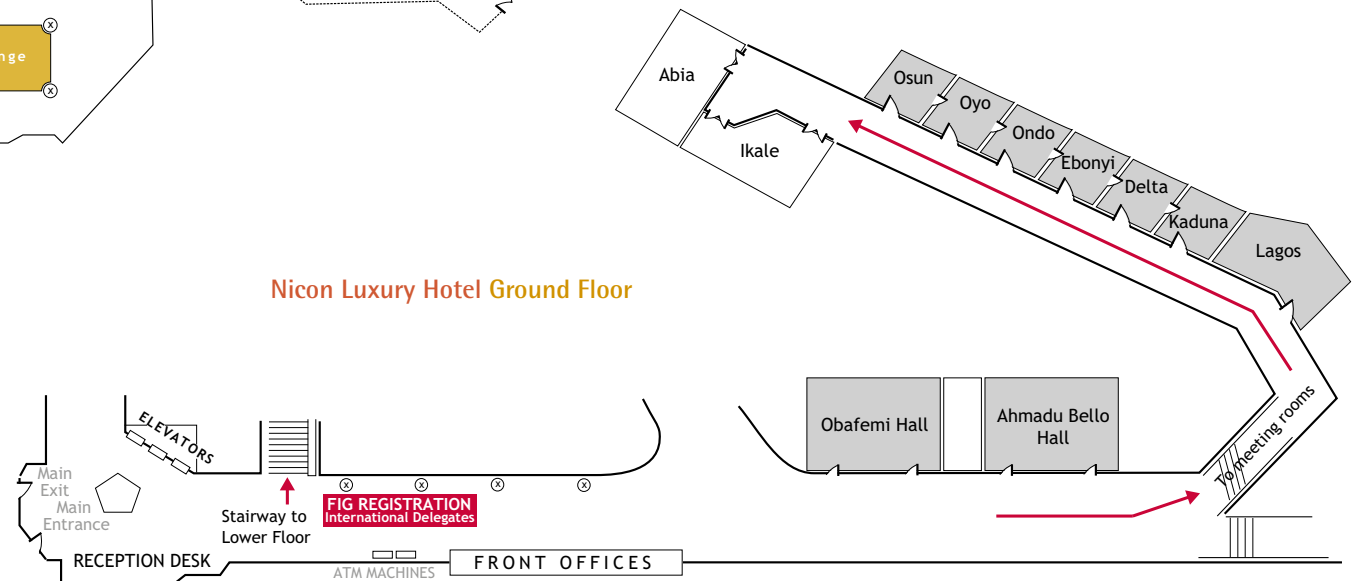
Coffee will be served during the breaks in the exhibition areas at the International Conference Centre and Nicon Luxury Hotel. Lunch is served in the Banquet Hall at the International Conference Centre.

Exhibition

The exhibition will be arranged in three locations: in two floors of Nicon Luxury Hotel, and in the Abuja Hall of The International Conference Centre.

The exhibition is open from Tuesday 7 May 10:30 to Thursday 9 May 16:30.

Nicon Luxury Hotel Ground Floor



French Speaking Session – Land Administration

Wednesday, 8 May 16:30–18:00
 Venue: Ahmadu Bello Hall, NLH
 Chair: Mr. **Marc Vanderschueren**, Belgium
 Rapporteur: Mr. **Roch Abdon M. C. BAH**, Benin

Francis Roy (Canada): Tenure Security and Titles Insurance: Privatization of a Public Responsibility? Sécurité foncière et assurances de titres: la privatisation d'une responsabilité publique? (6652)

Léopold Degbegnon (Benin): Reforms for Securing Land in Benin. Massive Issue of Land Titles. Réformes pour la Sécurisation foncière au Bénin. Délivrance massive de titres fonciers (6649)

Godelive Phanzu (Democratic Republic of Congo): Diagnostic urbaine et habitat. Diagnosis and Urban Habitat (6668)

Samuel Nguema Ondo Obiang (Gabon): Land Reform in Gabon: Best Practises? Quelle Reforme Fonciere au Gabon en vue de son emergence? (6684)

Jean-François Beaupré (Canada): The Lessons of the Creation of the Real Estate Market of the Province of Quebec (6697)

YSN: A Single-Session Version of the Workshop that was Held in Rome

Wednesday, 8 May 16:30–18:00
 Venue: Benue Hall, ICC
 Commission: 4, 5 and 6
 Chair: Ms. **Kate Fairlie**, Chair of FIG Young Surveyors Network
 Rapporteur: Ms. **Eva-Maria Unger**, Chair Elect of FIG Young Surveyors Network

Joint UN-Habitat GLTN/FIG Surveyor Generals Roundtable/Director Generals Forum

Wednesday, 8 May 16:30–18:00
 Venue: Lagos, NLH
 Facilitator: Prof. **Rudolf Staiger**, FIG Vice President
 Rapporteur and Summary: **Jean Du Plessis**, GLTN
 – By invitation only

TS05A – Pro Poor Land Management and 3d and 4D Cadastre

Wednesday, 8 May 16:30–18:00
 Venue: Executive Hall, ICC
 Commission: 7
 Chair: Mr. **Abdulkadir Funtua Isah**, Nigeria
 Rapporteur: Dr. **Chima Ogba**, Nigeria

Douglas Black and Lopez Bruno (Mozambique): Pro Poor Cadastral Solutions – Bridging the Gap (6472)

Stig Enemark (Denmark): Building Fit-for-Purpose Spatial Frameworks for Sustainable Land Governance in Sub-Saharan Africa (6527)

Tarun Ghawana (India), **Joao Hespanha** (Portugal), **Pradeep Khandelwal** (India) and **Peter van Oosterom** (Netherlands): 3D Cadastral Complexities in Dense Urban Areas of Developing countries: Case Studies from Delhi and Satellite Towns (6429)
This is a peer reviewed paper.

TS05B – Land Consolidation

Wednesday, 8 May 16:30–18:00
 Venue: Ahmadu Bello Hall, NLH
 Commission: 7 and 9
 Chair: Dr. **Christiaan Lemmen**, Netherlands
 Rapporteur: Mr. **Henning Elmstrom**, Denmark

Sergey Sapelnikov (Russia): SDI Components – Technology, Policy, Standards and Users (6713)

Anwuri Okwere (Nigeria): Faculty of Surveying-Panacea for Name Change Saga (6433)

Martin Hagai and Eric Mwaikambo, PhD Candidate (Tanzania): The Role of Land Information System in Instigating Spatial Enablement of Society and National SDI Development in Tanzania (6445)
This is a peer reviewed paper.

Sean Johnson (Lesotho): Reforming Land Administration in Lesotho: A results report (6616)

TS05C – GNSS Positioning and Measurement I

Wednesday, 8 May 16:30–18:00
 Venue: Conference Hall I, NLH
 Commission: 5
 Chair: Mr. **Gintcho Kostov**, Bulgaria
 Rapporteur: Mr. **Ivo Milev**, Germany

Li Zhang and Volker Schwieger (Germany): Investigation Regarding Different Antennas Combined with Low-Cost Receiver (6672)

Peter Nwilo, David Odegbare, Babajide Adegboye and Garba Ibrahim (Nigeria): Comparison of the Processing of GNSS Data Using Fixed Ground Stations (Triangulation Stations) and the NIGNET: A Case Study of the South-South Zone of Nigeria (6624)

Gbadegesin Elujobade (Nigeria): CadastralUltra: A Purpose-Built Low Cost GPS System for Cadastral Surveying in Nigeria (6581)

TS05D – GIS and Remote Sensing

Wednesday, 8 May 16:30–18:00
 Venue: Conference Hall III, NLH
 Commission: 8
 Chair: Mr. **Wafula Nabutola**, Chair of FIG Commission 8, Kenya
 Rapporteur: Mr. **Kwame Tenadu**, Nigeria

Bola Lasisi, Chika Onwuteaka, Ramesh Chennareddy and Abimbola Olumuyiwa (Nigeria): Production Asset Protection Using GIS and Remote Sensing Techniques – The Shell Nigeria Experience (6663)

Mary Ajayi, Babajide Ojo, Michael Olukolajo and Abiodun Oyetunji (Nigeria): Impact of Road Expansion Projects on the Informal Sector in Akure, Ondo State, Nigeria (6563)

Ekpete Benard (Nigeria): Developing Spatial Database for Sustainable Livelihood (6666)

Kurotiminipre Appah (Nigeria): Infrastructural development using Remote Sensing and GIS (Yenagoa as a Case Study) (6514)

TS05E – Hydrographic Education and Standards

Wednesday, 8 May 16:30–18:00
 Venue: Obafemi Hall, NLH
 Commission: 4
 Chair: Mr. **Akhigbe Irenen**, Nigeria
 Rapporteur: Mr. **Michael Sutherland**, Chair of FIG Commission 4

Ito Udoh and Ini Eyoefen (Nigeria): A Career in Hydrography: The Intricacies and its Make-Up (6424)

Angela Etuonovbe (Nigeria): The Necessity for National Hydrographic Service in African Countries. Using Ghana and Nigeria as case studies (6629)

Gordon Johnston (United Kingdom) and **Alberto Costa Neves** (Monaco): Developing new Standards of Competence for Hydrographers and Cartographers for 2020 (6708)
This is a flash presentation.

Oliver Ojinnaka (Nigeria): Hydrography in Nigeria and Research Challenges (6439)



Wednesday 18:00–19:00

Reception for participants of UN-Habitat GLTN/FIG Roundtable, Presidents Forum and main sponsors
 Wednesday, 8 May 18:00–19:00
 Venue: To be announced
 Chair: Mr. **CheeHai Teo**, FIG President
 – By invitation only

Wednesday 20:00–23:30

Commission Dinners
 Wednesday, 8 May 20:00–23:00
 Venue: To be announced

FIG Commission Annual Meeting

Thursday, 9 May 08:00–09:00
Commission: FIG Commission delegates 6–10

Meetings in following rooms:

- Commission 6: Niger Hall
- Commission 7: Conference Hall III
- Commission 8: Benue Hall
- Commission 9: Ahmadu Bello Hall
- Commission 10: Obifema Hall

TS06A – Cadastral and Land Administration Perspectives

Thursday, 9 May 09:00–10:30
Venue: Executive Hall, ICC
Commission: 7
Chair: Mr. **Peter Laarakker**, Netherlands
Rapporteur: Dr. **Ludmiła Pietrzak**, Poland

Hasan Jamil, Mohd Yunus Mohd Yusoff and Nur Zurairah Abdul Halim (Malaysia):
Discovering Possibilities of Implementing Multipurpose Cadastre in Malaysia (6567)

Peter van Oosterom, Christiaan Lemmen and Harry Uitermark (Netherlands):
ISO 19152:2012, Land Administration Domain Model Published by ISO (6640)

Christiaan Lemmen, Peter Van Oosterom and Harry Uitermark (Netherlands):
ISO 19152:2012, LADM Expected Impact (6645)

Mingjun Peng, Zonghua Li, Mingjun Luo and Fengkang Geng (China, PR):
Study on the Classification of Urban-and-Rural Integration Cadastral Elements (6664)
This paper will not be presented at the Working Week

Jones Brent (USA):
Cadastre 2.0 – Leveraging New Technology for Efficient, Comprehensive Cadastral Systems (6520)

TS06B – GNSS Positioning and Measurement II and Remote Sensing

Thursday, 9 May 09:00–10:30
Venue: Conference Hall I, NLH
Commission: 5
Chair: Mr. **Volker Schwieger**, Germany
Rapporteur: Mr. **Dirk Kowalewski**, Germany

Dirk Kowalewski (Germany):
3G+C Antenna in the Galileo Monitoring Network (6688)

Joseph Danasabe Dodo, Lazarus Ojigi, Samuel Tsebeje and Tahir Abubakar Yakubu (Nigeria):
Determination of the Best-Fit Tropospheric Delay Model on the Nigerian Permanent GNSS Network (NigNet) (6525)

Onuwa Okwuashi and Christopher Ndehedehe (Nigeria):
Estimation of Unknown Height for Digital Terrain Model Using Support Vector Machine Regression (6614)

TS06C – Construction Economics and Management

Thursday, 9 May 09:00–10:30
Venue: Ahmadu Bello Hall, NLH
Commission: 10
Chair: Mr. **Ugo Chime**, Nigeria
Rapporteur: Mr. **Emmanuel Chiemelu**, Nigeria

Stanley Simon, Alfred Mulade and Romanus Olewuiki (Nigeria):
Project Management: the Nigerian Defect (6634)

Olufemi Oyedele (Nigeria):
Construction Project Financing for Sustainable Development of Nigerian Cities (6398)
This is a peer reviewed paper.

Chan K (Hong Kong SAR, China):
Enhancing Sustainable Environment through Mitigating Air-conditioning (6437)

David Ayock Ishaya and Daniel Dabo (Nigeria):
A Comparative Analysis of Income Producing Potentials of Leisure Properties (Empirical Evidence) Kaduna, Nigeria (6444)
This is a peer reviewed paper.

Anthony Babalola (Nigeria):
A study of the ethical practices of the Quantity Surveying Practitioners in Nigeria (6675)

Dorothy L. Baba, Ikechukwu A. Diugwu and Musa Mohammed (Nigeria):
The Nexus of Monetary Variables on Construction Prices (6564)

TS06D – Hydrography in Practice

Thursday, 9 May 09:00–10:30
Venue: Obafemi Hall, NLH
Commission: 4
Chair: Ms. **Angela K. Etuonovbe**, Nigeria
Rapporteur: Mrs. **Gertrude N. Njar**, Nigeria

Olusegun Badejo, Peter Evarie, Nkem Anorue and Sunday Alademomi (Nigeria):
Tidal Harmonic Analysis at Bonga Field (6656)

Michael Sutherland and Demi Singh (Trinidad and Tobago):
Modelling Sea Level Rise in Caribbean SIDS: The Need for Tide Gauge Data (6693)

Patricia Gaspar (Netherlands), **Andrew Hoggarth** (Canada), **Gordon Johnston** (United Kingdom) and **Charles de Jong** (Netherlands):
A Case Study in Land and Sea Data Interoperability (6710)

Bola Lasisi, Chituru Obowu and Richard Eyers (Nigeria):
Niger Delta Flooding: Monitoring, Forecasting & Emergency Response Support from Shell (6659)

D. N Olayinka, P.C. Nwilo and A.E. Adzandeh (Nigeria):
From Catchment to Reach: Predictive Modelling of Floods in Nigeria (6604)

TS06E – Taxes and Valuation

Thursday, 9 May 09:00–10:30
Venue: Conference Hall II, NLH
Commission: 9
Chair: Mr. **Kwame Tenadu**, Nigeria
Rapporteur: Mr. **Nuhu Muhammed**, Nigeria

David Mitchell, Director, Land Centre and **Matt Myers** (Australia):
Land Valuation and Taxation: Key Tools for Disaster Risk Management (6441)
This is a peer reviewed paper.

Ismail Ojetunde (Nigeria):
Revisiting the Interaction between the Nigerian Residential Property Market and the Macroeconomy (6466)
This is a peer reviewed paper.

Long Yang, Jijin Geng, Yan Li, Xuefeng Liu and Hongwei Li (China, PR):
The Mode of Tax Assessment and Real Estate Consulting of Shenzhen City (6582)

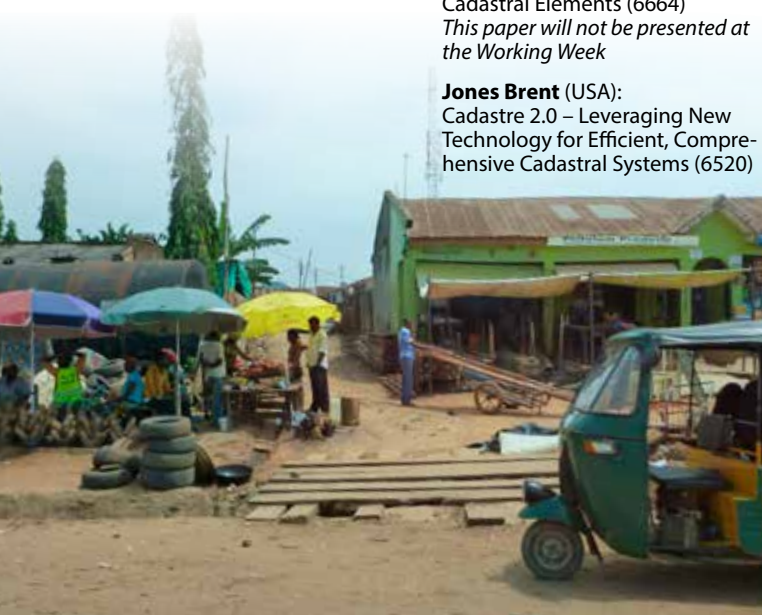
Felician Komu (Tanzania):
Housing Finance and Real Estate Markets in Tanzania (6674)

Bambang Edhi Leksono, Yuliana Susilowati, Bambang Setyadji and Munji Hartono (Indonesia):
Land Value Determination to Create Land Value Zone around the Disaster Potential Area (6717)

FIG Corporate Members Meeting

Thursday, 9 May 09:00–10:30
Venue: Lagos, NLH
Chair: Mr. **CheeHai Teo**, FIG President

- This annual session is for FIG Corporate Members to engage FIG Office and Council. Interested commercial entities desirous of FIG Corporate Membership are also invited to attend



**Plenary Session 3:
Professional and Capacity
Development**

Thursday, 9 May 11:00–12:30
Venue: Africa Hall, ICC

- Chair: Ms. **Diane Dumashie**,
Chair, FIG Task Force on Africa
Rapporteur: Mr. **Barde Jatau**,
Congress Director, FIG 2013
- Mr. **Jean du Plessis**, Capac-
ity building expert (Land),
Global Land Tool Network
(GLTN) UN-Habitat
 - Mr. **Frank F. K.
Byamugisha**, Operations
Adviser and Lead Land Spe-
cialist in the Africa Region
of the World Bank
 - Prof. **Jide Kufoniyi fnis**,
former rector of the RECTAS
(Regional Centre for Train-
ing in Aerospace Surveys),
Nigeria, Member of The
Nigerian Institution of Sur-
veyors

**UN-Habitat GLTN Africa
LPI Capacity Development
Special Event**

Thursday, 9 May 12:30–13:00
Venue: Africa Hall, ICC

- Chair: Ms. **Diane Dumashie**,
Chair, FIG Task Force on Africa
- Dr. **Solomon Abebe Haile**,
Global Land Tool Network
(GLTN), UN-Habitat, will
present the proposed Africa
LPI Capacity Development
initiative

**TS07A – Land Administration,
Natural Disaster and Climate
Change**

Thursday, 9 May 14:30–16:00

Venue: Executive Hall, ICC
Commission: 7 and
Chair: Dr. **David Mitchell**,
Australia
Rapporteur: Dr. **Chima Ogba**,
Nigeria

Jamal Browne (Saint Vincent and
the Grenadines): Land Tenure and
Post-Disaster Economic Recovery
for Caribbean SIDS: The Case of
Diego Martin, Trinidad (6449)

Thomas Dabiri (Nigeria): Cadas-
tre Spatial Information: A Depend-
able Tool for Flood Disaster Man-
agement in Delta State of Nigeria
(6540)

**Jaap Zevenbergen, Norman
Kerle and Arbind Tuladhar**
(Netherlands): Spatial Informa-
tion for Addressing and Assessing
Land Issues in Disaster Risk Man-
agement (6607)

**Francis Roy, Yaïves Ferland and
El Mehdi Lakrikba** (Canada):
Land Use Planning for Reducing
Natural Disaster Risks and Dam-
ages (6639)

**Dimo Todorovski, Jaap Zeven-
bergen, Paul van der Molen and
Gronendijk Liza** (Netherlands):
Post-Conflict Land Administra-
tion and its Current Status as Fac-
ilitator of the Post-Conflict State
Building – Case Mozambique
(6546)

**World Bank/FIG Special
Sessions on Land
Administration and Reform in
Sub-Saharan Africa 1**

Thursday, 9 May 14:30–16:00
Venue: Niger Hall, ICC

Chair: Mr. **Frank Byamugisha**,
World Bank and Mr. **Stig
Enemark**, FIG
Discussion moderator:
Mr. **Christiaan Lemmen**

TS07B – Land Tenure

Thursday, 9 May 14:30–16:00

Venue: Conference Hall III, NLH
Commission: 9
Chair: Mr. **Abdulkadir Funtua
Isah**, Nigeria
Rapporteur: Mr. **Paul van der
Molen**, Netherlands

**Iyenemi Ibimina Kakulu,
Simeon Igbara, Isaac Akuru and
Nekabari Paul Visigah** (Nigeria):
Land Access and Community En-
try Challenges in Environmental
Surveys – Selected Cases from
the Niger Delta Region of Nigeria
(6382)

This is a peer reviewed paper.

**Uchendu Chigbu and Michael
Klaus** (Germany):
Insecurity-Generating System of
Land Tenure and its Impact on
Rural Development: Evidence
from Uturu, Nigeria (6375)
This is a peer reviewed paper.

Taye Minale Belachew (Ethiopia):
Housing Tenure in Ethiopia, an
Empirical Study on Private Resi-
dential Tenancy in Bahir Dar City
(6580)

Bernard Ochieng (Kenya):
Valuing Forests for Sustainability:
Lessons of Experience from Kenya
and Proposals for Improvement
(6583)

Felix Iyiola and Ekpo Effiong
(Nigeria):
Application of Geographic Infor-
mation System (GIS) in Tenement
Rates Collection (6622)

**TS07C – Geospatial Analysis
Tools**

Thursday, 9 May 14:30–16:00

Venue: Conference Hall II, NLH
Commission: 3
Chair: Prof. **Chryssy Potsiou**, FIG
Vice President, Greece
Rapporteur: Mr. **Rafic Khouri**,
France

**Kamorudeen Aleem and Yusuf
Aina** (Saudi Arabia):
The use of SRTM in Assessing the
Vulnerability to Predicted Sea
Level Rise in Yanbu Industrial city,
Saudi Arabia (6484)

**Habibeh Valizadeh Alvan,
Shattri Mansor, Husaini Omar
Azad** (Iran):
Surface Anomalies Prior to Earth-
quakes (6485)

**Ajoke Onojeghuo and Alex
Onojeghuo** (Nigeria):
Mapping and Predicting Urban
Sprawl Using Remote Sensing
and Geographic Information Sys-
tem Techniques: A Case Study of
Eti-Osa Local Government Area,
Lagos, Nigeria (6667)

**Israel Taiwo, Oyedokun
Abiodun and Felix Ajibade**
(Nigeria):
Geographic Information Systems
– A tool for Disaster Management
(6669)

TS07E – Engineering Surveying 1

Thursday, 9 May 14:30–16:00

Venue: Obafemi Hall, NLH
Commission: 6
Chair: Mr. **Oloropo Ogundipe**,
Nigeria
Rapporteur: Mr. **Jacob Ehirobo**,
Nigeria

**Odeh Jacob Ehirobo,
Christopher O Izinyon and
Okiemute Rowland Ogirigbo**
(Nigeria):
Measurement and Documenta-
tion for Structural Integrity Ac-
cessment of an In-service School
Building at Risk (6638)

**Yuhua He, Xi Zhang, Liangshu
Shi and Zhongkui Ji** (China, PR):
Domestic Resource Satellite-
Based National Land-Use Macro
Monitoring (6506)

Ivo Milev (Germany):
Infrastructure Maintenance Sup-
ported by Low Cost GNSS Applica-
tions (6651)

**Maria Henriques and Sérgio
Oliveira** (Portugal):
Long-term Geodetic Displace-
ments – Evaluating the Quality of
Measured Displacements (6646)

**Tosa Ninkov, Vladimir Bulatovic,
Dejan Vasic and Zoran Susic**
(Serbia):
Modern Geodetic Technologies
for the Canal Construction (6618)



- This is a panel discussion open
for all participants interested in
improving land govern-
ance in Sub-Saharan Africa.
The session will include short
interventions from WB and FIG,
followed by case studies from
Rwanda and Ethiopia. The
theme for the open discussion
will focus on building a fit-for-
purpose spatial framework in

- support of sustainable and
transparent land governance.
- Mr. **Frank Byamugisha**,
World Bank
- Mr. **Stig Enemark**, FIG
Case study from Rwanda
- Mr. **Tigistu G. Abza**, Ethiopia

Thursday, 9 May 2013 16:30–18:00

World Bank/FIG Special Sessions on Land Administration and Reform in Sub-Saharan Africa 2

Thursday, 9 May 16:30–18:00
Venue: Niger Hall, ICC
Chair: Mr. **Frank Byamugisha**, World Bank and Mr. **Tony Burns**, Land Equity
Discussion moderator: **Christiaan Lemmen**

- This is a panel discussion open for all participants interested in improving land governance in Sub-Saharan Africa. The session will include a short presentation from Land Equity followed by case studies from Nigeria, Uganda and Tanzania. The theme for the open discussion will focus on costs, technology and capacity building for building the spatial framework.
- Mr. **Tony Burns**, Land Equity
- Mr. **Peter Adeniyi**, Nigeria
- Mr. **Richard Oput**, Uganda
- Mr. **Chris Mnyanga**, Tanzania

YSN: Build on the STDM Workshop that will Precede the WW

Thursday, 9 May 16:30–18:00
Venue: Benue Hall, ICC
Commission: 3, 7 and 8
Chair: Ms. **Kate Fairlie**, Chair of FIG Young Surveyors Network
Rapporteur: Ms. **Eva-Maria Unger**, Chair Elect of FIG Young Surveyors Network

TS08C – Engineering Surveying 2

Thursday, 9 May 16:30–18:00
Venue: Obafemi Hall, NLH
Commission: 6
Chair: Dr. **Olusola Atilola**, Nigeria
Rapporteur: Dr. **E. C. Moka**, Nigeria

Angela Maria Barbosa de Souza, Andréa De Seixas and Luciene Ferreira Gama (Brazil):

Implementation and Determination of the Three-Dimensional Geodesic Structures in the Olinda's Historical Site (6611)
This is a flash presentation.

Raphael Ehigiator Irughe (Russia), **Mabel Ehigiator** and **V.N. Uzodinma** (Nigeria):

Kinematic Analysis of Structural Deformation Using Kalman Filter Technique (6544)

Fabiane Bordin, Elba Calessio Teixeira, Sílvia Beatriz Alves Rolim and **Francisco Manoel Wohnrath Tognoli** (Brazil):

Analysis of the Influence of Distance on Data Acquisition Intensity Targets Forestry Terrestrial Laser Scanner (6620)
This is a flash presentation.



Thursday 16:00–19:00

NIS Annual General Meeting

Thursday, 9 May 16:00–19:00
Venue: To be announced
– For all NIS members
– Open for observers

Thursday 20:00–23:30

Gala Dinner

Thursday, 9 May 20:00–23:30
Venue: Africa Hall, ICC
– The dinner is a three course Nigerian meal spiced with performances by musicians, comedy and dance. You have the possibility of meeting your Nigerian hosts and colleagues from abroad. One of the guest speakers will be the Minister of Works, Arc. **Mike Onolememen**.
– A ticket is required

Friday, 10 May 2013

Presidents Meeting

Friday, 10 May 08:30–10:30
Venue: Lagos, NLH
Chair: Mr. **CheeHai Teo**, FIG President
– Meeting of Presidents and head of delegations of FIG member associations
– By invitation only

FIG General Assembly – Second Session

Friday, 10 May 11:00–12:00
Venue: Conference Hall, NLH
Chair: Mr. **CheeHai Teo**, FIG President
– For all FIG members
– Open for observers

FIG General Assembly – Second Session – and closing

Friday, 10 May 13:00–15:00
Venue: Conference Hall, NLH
Chair: Mr. **CheeHai Teo**, FIG President
– For all FIG members
– Open for observers

Farewell Reception (Malaysia)

Friday, 10 May 15:00–16:00
Venue: To be announced

Saturday, 11 May 2013

FIG Council Meeting

Saturday, 11 May 09:00–17:00
Venue: Ebonyi, NLH
Commission: FIG Council
Chair: Mr. **CheeHai Teo**, FIG President
– By invitation only





Program at a Glance

Time				Exhibition			Friday 10 May	Time						
	Saturday 4 May	Sunday 5 May	Monday 6 May	Tuesday 10:30–17:30	Wednesday 9:00–17:30	Thursday 9:00–16:30								
8:00		Registration 13:00–18:00	Registration 8:00–18:00	Registration 8:00–18:00	Comm. Annual Meetings Registration 8:00–18:00	Comm. Annual Meetings Registration 8:00–18:00		8:00						
9:00	Joint UN–Habitat GLTN/FIG Social Tenure Domain Model (STDM) Training of Trainers Workshop for Young Surveying Professionals (Closed Event)	Joint UN–Habitat GLTN/FIG Social Tenure Domain Model (STDM) Training of Trainers Workshop for Young Surveying Professionals (Closed Event)	ACCO Meeting	Joint UN–Habitat GLTN/FIG Social Tenure Domain Model (STDM) Training of Trainers Workshop for Young Surveying Professionals (Closed Event)	General Assembly	Opening Ceremony	Technical Sessions and Forums F, G	Technical Sessions and Forums J	President's Meeting	9:00				
10:00						Coffee break & Exhib. opens	Coffee break	Coffee break		Coffee break	10:00			
11:00						Plenary Session 1: Governance and Approaches	Plenary Session 2: Technologies and Systems	Plenary Session 3: Professional and Capacity Development		General Assembly	11:00			
12:00						Lunch	Lunch	K			Lunch	12:00		
13:00						Lunch	Lunch	Lunch			General Assembly and Closing	13:00		
14:00						Technical Sessions and Forums A, B, C	Technical Sessions and Forums A, H	Technical Sessions and Forums L, M				14:00		
15:00						Coffee break	Coffee break	Coffee break & Exhib. closes				Farewell Reception	15:00	
16:00						Technical Sessions and Forums A, D, E	Technical Sessions and Forums A, D, I	Technical Sessions and Forums M, N					NIS AGM	16:00
17:00						Reception for participants of GLTN/FIG Roundtable								17:00
18:00														18:00
19:00				19:00										
20:00	Nigerian Evening / FIG Foundation Dinner 19:30–23:00	Free / Commission Dinners 20:00–23:00	Gala Dinner 20:00–23:30	20:00										
21:00	NIS Dinner with invited guests 20:00–			21:00										

Technical Tours:
TT 1 – Visit to AGIS and Development Agency
 – Wednesday 8 May, 14:00–18:00

- A. Joint UN–Habitat GLTN/FIG Surveyor Generals Roundtable/Director Generals Forum (by invitation):** 7–8 May 14:30–16:00 and 16:30–18:00
- B. FIG Academic Members Forum:** 7 May 14:30–16:00
- C. Africa Task Force: What Future for Land Professionals in Africa:** 7 May 14:30–16:00
- D. French Speaking Session:** 7–8 May 16:30–18:00
- E. YSN (Workshop/Discussion on Crowd Sourcing)** 7 May 16:30–18:00
- F. Joint UN–Habitat/FIG Commission 7 Session on Participatory and Inclusive Land Readjustment (PILAR):** 8 May 9:00–10:30
- G. Member Associations Forum:** 8 May 9:00–10:30
- H. Task Force on Property and Housing:** 8 May 14:30–16:00

- I. YSN (Single–Session Version of the Rome Workshop):** 8 May 16:30–18:00
- J. Corporate Members' Meeting:** 9 May 9:00–10:30
- K. UN–Habitat GLTN Africa LPI Capacity Development Special Event:** 9 May 12:30–13:00
- L. Task Force on Surveyors and Climate Change:** 9 May 14:30–16:00
- M. World Bank/FIG Special Sessions on Land Administration and Reform in Sub-Saharan Africa:** 9 May 14:30–16:00 and 16:30–18:00
- N. YSN (Building on the STDM Workshop Preceding the WW):** 9 May 16:30–18:00
- Council Meeting:** 10 May 9:00–17:00

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Working Week web site

www.fig.net/fig2013

Conference proceedings

www.fig.net/pub/fig2013



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in Kuala Lumpur!



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