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## CALL FOR PAPERS TO

### THE XXV FIG INTERNATIONAL CONGRESS IN MALAYSIA

**Kuala Lumpur, Malaysia, 16–21 June 2014**

**at Kuala Lumpur Convention Centre**

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**Dear Friend and Colleague,**

It is our privilege and honour to invite you to the **XXV FIG International Congress**, in **Kuala Lumpur, Malaysia** to be held from **16th to 21st June 2014**. The Congress is hosted by the International Federation of Surveyors, FIG and the Association of Authorised Land Surveyors Malaysia, PEJUTA, as the local host. The main partners of this Congress are the partnering agencies and bodies of United Nations and the World Bank, allied international and regional professional and non-governmental organizations are also supporting this FIG Congress in 2014.

The overall theme of the Congress is “**Engaging the Challenges – Enhancing the Relevance**”, within the context of the FIG Work Plan for 2011 - 2014 that has a vision to extend the use and usefulness of the Profession for the betterment of society, environment and economy towards a world that we want.

The carefully prepared Technical Programme will offer both specially invited high profile presentations and papers that are selected through the open call for papers procedure. The Call for Papers is open for both **peer review** and **non-peer review** submissions.

FIG Congress 2014 will gather international practitioners and academics from all disciplines within the surveying, geospatial, natural and built environment professions (land surveying, land administration and management, land and real property appraisals, spatial sciences, spatial planning and development, positioning and measurement, engineering surveying, hydrography, environmental and green building and cost, construction and project management). FIG 2014 will be the major FIG Congress summarising the results of activities of FIG, its Council, commissions and working groups from the period 2011-2014.

More information from the FIG Congress web site: [www.fig.net/fig2014](http://www.fig.net/fig2014)

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FIG Congress 2014

Kuala Lumpur, Malaysia 16-21 June 2014

Call for papers

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FIG 2014 is the main event for all ten FIG technical commissions. Therefore proposals for papers are requested in all topics of interest of the following commissions:

1. Professional Standards and Practice – FIG commission 1
2. Professional Education – FIG commission 2
3. Spatial Information Management – FIG commission 3
4. Hydrography – FIG commission 4
5. Positioning and Measurement – FIG commission 5
6. Engineering Surveys – FIG commission 6
7. Cadastre and Land Management – FIG commission 7
8. Spatial Planning and Development – FIG commission 8
9. Valuation and the Management of Real Estate – FIG commission 9
10. Construction Economics and Management – FIG commission 10

Papers are also invited on the areas of three FIG Task Forces: Surveyors and Climate Change; Property and Housing; and FIG Africa Task Force. In addition papers on the History of Surveying and Measurement (Permanent Institution of FIG) are welcome.

The subthemes identified by FIG Commissions together with the local organising committee include:

- Professional Standards, Ethics and Practice
- Professional Education and Capacity Development
- Emerging and Changing Roles of Surveyors
- Surveyors and Climate Change
- Spatially enabled government and society
- Spatial Information Management and Data Infrastructure
- Spatial Information for Sustainable Development and Disaster Risk Management
- Hydrography and Administration of Marine Spaces
- Positioning and Measurement
- Global, Regional and National Geodetic Reference Frames
- GNSS Development and Modernization
- Location-based Services and Precision Positioning Possibilities
- Engineering and Mining Surveys
- Airborne and Terrestrial Laser Scanning
- Unmanned Aerial Vehicle and Mobile Mapping
- Cadastre, Land Administration and Management
- Innovative Land Administration Approaches and Land Tools
- Responsible Governance of Tenure of Land and the Seas
- Securing Land and Property Rights for All
- Global Geospatial Information Management
- Sustainable Spatial Planning and Urban Development
- Valuation and Management of Real Estates
- Land and Property Market and Taxation
- International Property Standards and Practices
- Building Information Modelling and Management
- Green Construction and Innovation
- Sustainable and Affordable Housing
- Construction Economics and Management

## **SPECIFIC TOPICS OF FIG CONGRESS**

In the open call for papers **non-peer review** and **peer review** papers are invited from following **detailed topics** selected by FIG Commissions:

### **COMMISSION 1 – PROFESSIONAL STANDARDS AND PRACTICE**

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- Governance and sustainability
- Development of professional qualifications, standards and review systems
- Professional services to the public and the marketing of the profession
- Young professionals (sessions organised by Young Surveyors Network)
- Changing role of the surveyor, innovation and new ways of working
- Institutional development and legislative issues

### **COMMISSION 2 – PROFESSIONAL EDUCATION**

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- Educational standards and accreditation
- Attracting new generations and students to surveying programmes
- Innovation in surveying curricula
- Life-long learning - educational and training services
- Good educational practices
- Building capacity for training and education

### **COMMISSION 3 – SPATIAL INFORMATION MANAGEMENT (SIM)**

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- Spatial Data Infrastructure (SDI) at all levels – local, regional, national and global
- e-Governance and SDI in supporting decision making – theory, applications and best practice
- Integration of spatial data – cadastre, land use, real estate, utilities, environment, socio-economic information, etc.
- 3D/4D geospatial models, algorithms, standards and applications
- Business models, public-private partnerships and economic aspects of SDI
- SIM meeting challenges – natural and environmental risk prevention and disaster management, waste management, etc.
- SDI interoperability aspects – standards, technical tools, metadata, portals and clearinghouses
- Web and mobile GIS – challenges, services and real-time capabilities
- Geospatial visualisation (2D/3D/4D)

### **COMMISSION 4 - HYDROGRAPHY**

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- Hydrographic surveying and mapping
- Hydrographic standards and guidelines
- Hydrographic education, training, and professional development
- New and emerging science and technologies for hydrography (e.g. sensors, systems, AUVs, electromagnetic wave propagation etc.)
- Maritime and marine spatial information management (including data processing and management of hydrographic data, data structures, marine spatial data infrastructures, marine information systems)

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- Hydrography and society (Offshore surveying in support of energy, environment, submarine telecommunications, ports and harbours, economies, national and international political objectives)

#### **COMMISSION 5 – POSITIONING AND MEASUREMENT**

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- GNSS and infrastructural development
- Geodetic and positioning measurement – infrastructure, methodology, adjustment and analysis
- Standards, best practice guidelines, quality assurance and calibration for survey (including geodetic) measuring instruments
- National or geospatial reference systems and associated infrastructure
- Terrestrial and airborne laser scanning
- Cost-effective surveying (GNSS and other survey methods)
- Ubiquitous positioning techniques and applications -such as RFID, WiFi, AGPS, mobile phones, MEMS inertial sensors, Locata
- Geoids and gravity - modelling, measurements and applications

#### **COMMISSION 6 – ENGINEERING SURVEYS**

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- Deformation measurement
- Engineering surveys in managing natural disasters
- Precise height measurements for engineering
- Recent industrial surveying and sensing technologies and applications
- Laser scanning applications
- Machine control and guidance with surveying technologies

#### **COMMISSION 7 – CADASTRE AND LAND MANAGEMENT**

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- Emerging trends in land administration and cadastre
- Land policy and reform
- Land administration to support sustainable development
- Development of pro poor land management and land administration
- Customary and group land rights
- 3D and 4D cadastre
- State land management
- Land administration in post conflict and post natural disaster areas

#### **COMMISSION 8 – SPATIAL PLANNING AND DEVELOPMENT**

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- Environmental challenges in megacities
- Disaster and environmental management
- Urban and rural land use planning
- Planning policies and environmental improvement
- Informal settlement issues in spatial development, planning and governance
- Planning and managing urbanisation
- Public-private partnerships in planning and land development

## COMMISSION 9–VALUATION AND THE MANAGEMENT OF REAL ESTATE

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- Tax Bases for Real Estate Taxation
- Mass Appraisal Techniques
- Large Scale Acquisitions of Land (“Land Grab”)
- Real estate valuation
- Valuation methods for properties where no markets exist for them
- Valuation profession and valuation standards
- Real estate finances and investments
- Compulsory purchase and compensations in land acquisition and takings
- Real property practises and sustainable cities

## COMMISSION 10 – CONSTRUCTION ECONOMICS AND MANAGEMENT

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- Quantity Surveying
- Project Tendering (Bidding)
- BIM - Building Information Modelling - the hottest one,
- Construction standards and regulations
- Construction economics
- Innovative house building and mass customisation in housing

## SUBMISSION OF PROPOSALS

This **Call for Papers** is announced both for **peer review papers** and **non-peer review papers**.

**PLEASE NOTE:** When submitting your abstract the number of abstracts is limited to a **maximum of one per author**. Further, an author can only once be a co-author in another abstract. It means an author can only be involved in two abstracts, once as first author and once as co-author.

### NON-PEER REVIEW – SUBMISSION OF ABSTRACTS

We invite you to submit an abstract for the FIG Congress 2014 by **1 December 2013**. The abstract shall not exceed 250 to 500 words in length describing the objectives, results, conclusions and significance of your work. The abstract shall include the names and affiliations of all authors. Please feel free to submit an abstract on any topic related to the specific topics of FIG 2014.

**All abstracts** shall be submitted **online** to FIG on the following web site:  
[www.fig.net/fig2014/submission.htm](http://www.fig.net/fig2014/submission.htm).

Deadline for submitting the abstract is **1 December 2013**. For other important deadlines see **important dates**.

## PEER REVIEW – SUBMISSION OF FULL PAPERS

If you want to present a peer review paper at the FIG Congress 2014 you shall submit your full paper by **1 November 2013**. When preparing the paper, please follow the guidelines prepared for papers (**paper guidelines** and the specific **paper template** for FIG Congress 2014 that are available on the conference web site, [www.fig.net/fig2014](http://www.fig.net/fig2014)). Please feel free to submit a paper on any topic related to the specific topics of FIG 2014.

The peer review process is double blind and deadlines for different steps can be seen below under **important dates**.

Full papers shall be submitted to FIG in **electronic format** to:  
International Federation of Surveyors by email to [fig@fig.net](mailto:fig@fig.net).

If you have problems with email the paper can be submitted (in electronic format) by mailing it to:

International Federation of Surveyors  
Kalvebod Brygge 31-33  
DK-1780 Copenhagen V  
DENMARK  
Tel + 45 3886 1081  
Fax + 45 3886 0252

Please include at the end of your abstract all your contact details, including your name, address, phone and fax numbers and email address. In the conference programme a paper that has been accepted by the peer review process will be marked "*This is a peer reviewed paper*". Papers that are not accepted by the peer review process can be offered to the conference as non peer reviewed papers.

When submitting a paper the author(s) agree that FIG has the right to publish the paper in the conference proceedings (at the conference and on the FIG web site); in the FIG Surveyors Reference Library; and in the FIG online journal (if selected for this purpose) without any further agreement or compensation. The copyright of the paper remains by the author(s).

**Important:** In addition to submitting the full paper, you shall also submit an abstract of your paper **online** to FIG database on the following web site: [www.fig.net/fig2014/submission.htm](http://www.fig.net/fig2014/submission.htm). Please mark "*This abstract is submitted for peer review*". Before sending the abstract and full paper, please read the **FIG guidelines for peer review papers**.

Receipt of your abstract and paper will be acknowledged electronically according to the time schedules.

The number of papers for peer review is limited to **a maximum of one paper** per author.

## **FURTHER INFORMATION**

For any information see the conference web site: [www.fig.net/fig2014](http://www.fig.net/fig2014).

All abstracts and papers have to be submitted in English.

The online registration opens in December 2013.

Any inquiries on call for papers, abstracts, peer review process and technical programme, please contact the FIG Office (Email: [fig@fig.net](mailto:fig@fig.net), tel +45 3886 1081; fax +45 3886 0252).

We look forward to meeting you in Kuala Lumpur in June 2014.

Yours sincerely,

Mohammad Azmi Mohd Zin  
President, PEJUTA

CheeHai Teo  
President, FIG

## IMPORTANT DATES

Deadlines for submitting abstracts, papers and registration are:

### Non Peer Reviewed Papers

### Peer Reviewed Papers

**1 December 2013**

Deadline for authors to submit non peer reviewed **abstracts**.

**1 November 2013**

Deadline for authors to submit **full papers** for peer review.

**31 January 2014**

Confirmation to authors of acceptance of non peer reviewed **abstracts**.

**19 December 2013**

First notification to authors of acceptance of peer reviewed papers.  
For accepted papers, authors will also be notified of any modifications required by the reviewers.  
Authors of papers not accepted for peer review will be offered to convert the paper to the non peer review process.

**23 January 2014**

Deadline for authors to submit revised **full paper** for 2nd round of peer review (depending on proposed corrections from reviewers).

**6 February 2014**

Second notification to authors of acceptance of peer reviewed papers with the possibility of further modifications from the 2<sup>nd</sup> round of peer review.

### All Papers (peer reviewed and non peer reviewed)

**27 February 2014**

Early bird registration closes  
Deadline for all authors to register.

**13 March 2014**

Deadline for all authors to submit **Full Papers**.

**21 March 2014**

First draft of the technical programme will be published on the web.

**24 April 2014**

Deadline for normal registration.

**16-21 June 2014**

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