



# FIG WORKING WEEK 2012

May 6–10 2012  
Rome, Italy

## FIG Working Week 2012 Rome, Italy, 6-10 May 2012 Call for Papers

**Dear Friend and Colleague,**

It is our privilege and honour to invite you to the **FIG Working Week 2012** in **Rome, Italy** to be held **from 6<sup>th</sup> to 10<sup>th</sup> May 2012**. The FIG Working Week will be preceded by the *1<sup>st</sup> FIG Young Surveyors Conference* in Rome 4-5 May 2012.

The overall theme of the Working Week is “**Knowing to Manage the Territory – Protect the Environment – Evaluate the Cultural Heritage**”. These three sub themes address the challenges of today and their relation to the cultural heritage that Italy and Rome are so famous of. Rome is a natural venue for discussing the past and future of the surveying profession and the global community. The theme implements the theme of the current FIG term of office: “*Engaging the Challenge: Enhancing the Relevance*”.

The Working Week will bring surveyors and land professionals from all over the world together to meet while specific focus will be given to the Mediterranean region. The conference is organised jointly by FIG and Consiglio Nazionale Geometri e Geometri Laureati that is the biggest FIG member association with its well above 100,000 members. The main partner of the Working Week is UN FAO and other UN agencies supporting the conference. The organisers are expecting more than 1,200 participants to Rome in May from 100 countries.

The opening ceremony and three plenary sessions will address key issues of the surveying profession including latest development in surveying technology, land administration and land tenure, geospatial information, urbanisation and sustainable cities and their relations to cultural heritage and its maintenance.

The technical programme will include a broad professional and scientific programme with 8-9 slots each offering from 8 up to 10 parallel sessions and workshops. With flash presentations the programme offers more than 400 presentations in a three-day technical programme.

The technical programme will offer 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 Working Week 2012 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 2012 will be the major FIG conference in 2012 and the second Working Week organised by the current FIG Council and Commissions as part of the FIG work plan for 2011-2014. At the General Assembly in Rome new Commission chairs elect will be elected as well as two new Council members that will create more excitement to the administrative meetings. More information from the Working Week web site: [www.fig.net/figf2012](http://www.fig.net/figf2012).

FIG Working Week 2012 is the major event in 2012 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
2. Professional Education
3. Spatial Information Management
4. Hydrography
5. Positioning and Measurement
6. Engineering Surveys
7. Cadastre and Land Management
8. Spatial Planning and Development
9. Valuation and the Management of Real Estate
10. Construction Economics and Management; and  
History of Surveying and Measurement (Permanent Institution of FIG).

Papers are also invited on the areas of three FIG Task Forces: Spatially Enabled Societies; Surveyors and Climate Change; Property and Housing; and the FIG Africa Task Force.

### **Specific topics of FIG Working Week 2012**

In the open call for papers non-peer review and peer review papers are invited from following **detailed topics**.

#### **Commission 1 – Professional Standards and Practice**

- 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)
- Global labour market and mutual recognition of qualifications
- Changing role of the surveyor, innovation and new ways of working
- Professional ethics as a way to succeed in business
- Institutional development and legislative issues
- Profession and market economies
- Liberalisation of the professional market
- Analysis of international and national boundary settlement and demarcation issues

#### **Commission 2 – Professional Education**

- Attracting new generations and students to surveying programmes
- Innovation in surveying curricula
- Exchange of professional knowledge
- e-Learning - content development methods, tools, student support
- Life-long learning - educational and training services
- Quality assurance in education and training

- Good educational practices
- Networking in education and training
- Building capacity for training and education

### **Commission 3 – Spatial Information Management (SIM)**

- Spatial Data Infrastructure (SDI) at all levels – local, regional, national and global
- SDI components – technology, policy, standards, and users
- 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
- Geo-sensor networks and SDI
- 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
- SDI – control and quality assurance processes
- Web and mobile GIS – challenges, services and real-time capabilities
- Geospatial visualisation (2D/3D/4D)

### **Commission 4 - Hydrography**

- 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)
- e-Navigation
- 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**

- 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
- Reference systems, frames and datums in practice
- GNSS CORS RTK networks and infrastructure - the impact of these networks, their operations and applications
- Terrestrial and airborne laserscanning
- Cost-effective surveying (GNSS and other survey methods)
- Ubiquitous positioning techniques and applications -such as RFID, WiFi, AGPS, mobile phones, MEMS inertial sensors, Locata
- Kinematic measurements – including GNSS and Multi Sensors Systems
- GNSS modernisation and its effect on surveying

- Geoids and gravity - modelling, measurements and applications
- eGeodesy
- GGOS (Global Geodetic Observing System)

### **Commission 6 – Engineering Surveys**

- Deformation measurement
- Engineering surveys in managing natural disasters
- Engineering survey case studies
- Precise height measurements for engineering
- Recent industrial surveying and sensing technologies and applications
- Laser scanning applications
- Ubiquitous positioning techniques and applications
- Machine control and guidance with surveying technologies
- Surveying technologies for sustainable rural and urban development
- Positioning of buried utilities

### **Commission 7 – Cadastre and Land Management**

- Land policy and reform
- Land administration to support sustainable development
- Applications of innovative technology in land administration
- Development of pro poor land management and land administration
- Low cost surveying and mapping
- Customary and group land rights
- 3D and 4D cadastre
- Establishment of international borders
- Marine cadastre
- State land management
- Land administration in post conflict and post natural disaster areas
- Analysis of international and national boundary settlement and demarcation issues
- Innovative cadastre and land rights management
- Partnerships to implement the FAO Voluntary Guidelines on Responsible Governance of Tenure

### **Commission 8 – Spatial Planning and Development**

- Bridging the urban and rural divide
- Urban and rural land use planning
- Planning policies and environmental improvement
- Informal settlement issues in spatial development, planning and governance
- Planning and managing urbanisation
- Regional and local structure planning
- Disaster risk management
- Public-private partnerships in planning and land development

### **Commission 9 – Valuation and the Management of Real Estate**

- Real estate valuation
- Valuation methods for properties where no markets exist for them
- Land and property taxation
- Valuation profession and valuation standards
- GIS in real estate valuation
- Real estate finances and investments

- Real estate management
- Compulsory purchase and compensations in land acquisition and takings
- Real property practises and sustainable cities
- Implementation of land and property taxation tax

### Commission 10 – Construction Economics and Management

- Construction economics
- Commercial management
- Project and programme management
- Innovative house building and mass customisation in housing
- Construction technologies, methodologies and liveable cities
- Sustainable housing, “green building” programmes and indexes
- Improving conditions in Informal settlement with innovative construction methodologies
- Large size construction management support by surveyors
- Encouraging green management in projects
- Green contracts and procurement
- Whole life cycle assessment
- Best practices – practical examples and results of the projects

### History of Surveying and Measurement

- History of surveying and measurement
- Historical maps
- Historical surveys

### Submission of Proposals

This **Call for Papers** is announced both for **peer review papers** and **non-peer review papers**. Detailed information and **important dates** are shown below.

### Non-Peer Review – Submission of Abstracts

We invite you to submit an abstract for the FIG Working Week 2012 by **15 December 2011**. 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 2012.

If you prefer you can also submit your paper for flash presentation. The flash presentations will be included in the technical programme and full paper will be published in the proceedings. The time given for flash presentations will be shorter than for normal presentation. This is the concept that was successfully used at FIG conferences in 2010 and 2011.

**All abstracts** shall be submitted **online** to FIG on the following web site:

<http://www.fig.net/abstractdb/submit.asp?id=14>. Please mark “*This abstract is submitted for **non-peer review***” or “*This abstract is submitted for **flash presentation***”

Deadline for submitting the abstract is **15 December 2011**. For other important deadlines see **important dates**.

If you have problems with the online submission, the abstract can also be submitted in electronic format to:

International Federation of Surveyors  
Kalvebod Brygge 31-33  
DK-1780 Copenhagen V, DENMARK  
Tel + 45 3886 1081  
Fax + 45 3886 0252  
by email: [fig@fig.net](mailto:fig@fig.net)

Please include at the end of your abstract all your contact details, including name, address, phone and fax numbers and email. Please also include on your abstract whether you have a preference for a normal or for flash presentation. Receipt of your abstract will be acknowledged electronically.

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).

The number of abstracts is limited to **a maximum of one per author (presenter)**..

### Peer Review – Submission of Full Papers

If you want to present a peer review paper at the FIG Working Week 2011 you shall submit your full paper by **1 November 2011**. When preparing the paper, please follow the guidelines prepared for papers (**paper guidelines** and the specific **paper template** for FIG Working Week 2012 that are available on the conference web site). Please feel free to submit a paper on any topic related to the specific topics of FIG 2012.

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 paper all your name, address, phone and fax numbers and email address. Papers that are not accepted by the peer review process can be offered to the conference as non peer reviewed papers. In the conference programme a paper that has been accepted by the peer review process will be marked "*This is a peer reviewed paper*". 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 other 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: <http://www.fig.net/abstractdb/submit.asp?id=14>. 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/fig2012](http://www.fig.net/fig2012). All abstracts and papers have to be submitted in English.

The online registration opens in November 2011.

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 Rome in May 2012.

Yours sincerely,

Fausto Savoldi  
President, CNGGL



Markku Villikka  
FIG Director  
Co-Congress Director



## Important dates

Deadlines for submitting abstracts, papers and registration are:

Non Peer Reviewed Papers	Peer Reviewed Papers *)
<b>15 December 2011</b>	<b>1 November 2011</b>
Deadline for authors to submit non peer reviewed <b>abstracts</b> .	Deadline for authors to submit <b>full papers</b> for peer review.
<b>19 January 2012</b>	<b>15 December 2011</b>
Confirmation to authors of acceptance of non peer reviewed <b>abstracts</b> . First draft of the technical programme will be published on the web.	First notification to authors of acceptance to authors 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.
	<b>19 January 2012</b>
	Deadline for authors to submit revised <b>full paper</b> for 2nd round of peer review (depending on proposed corrections from reviewers).
	<b>2 February 2012</b>
	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.
<b>All Papers (peer reviewed and non peer reviewed)</b>	
<b>2 February 2012</b>	
Technical programme published on the conference web site.	
<b>9 February 2012</b>	
Early bird registration closes Deadline for all authors to register.	
<b>8 March 2012</b>	
Deadline for all authors to submit <b>Full Papers</b> .	
<b>22 March 2012</b>	
Deadline for normal registration.	
<b>6-10 May 2012</b>	
<b>FIG Working Week 2012 – Rome Cavalieri, Rome, Italy</b>	