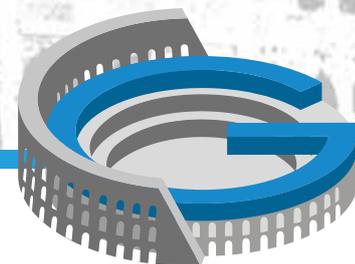
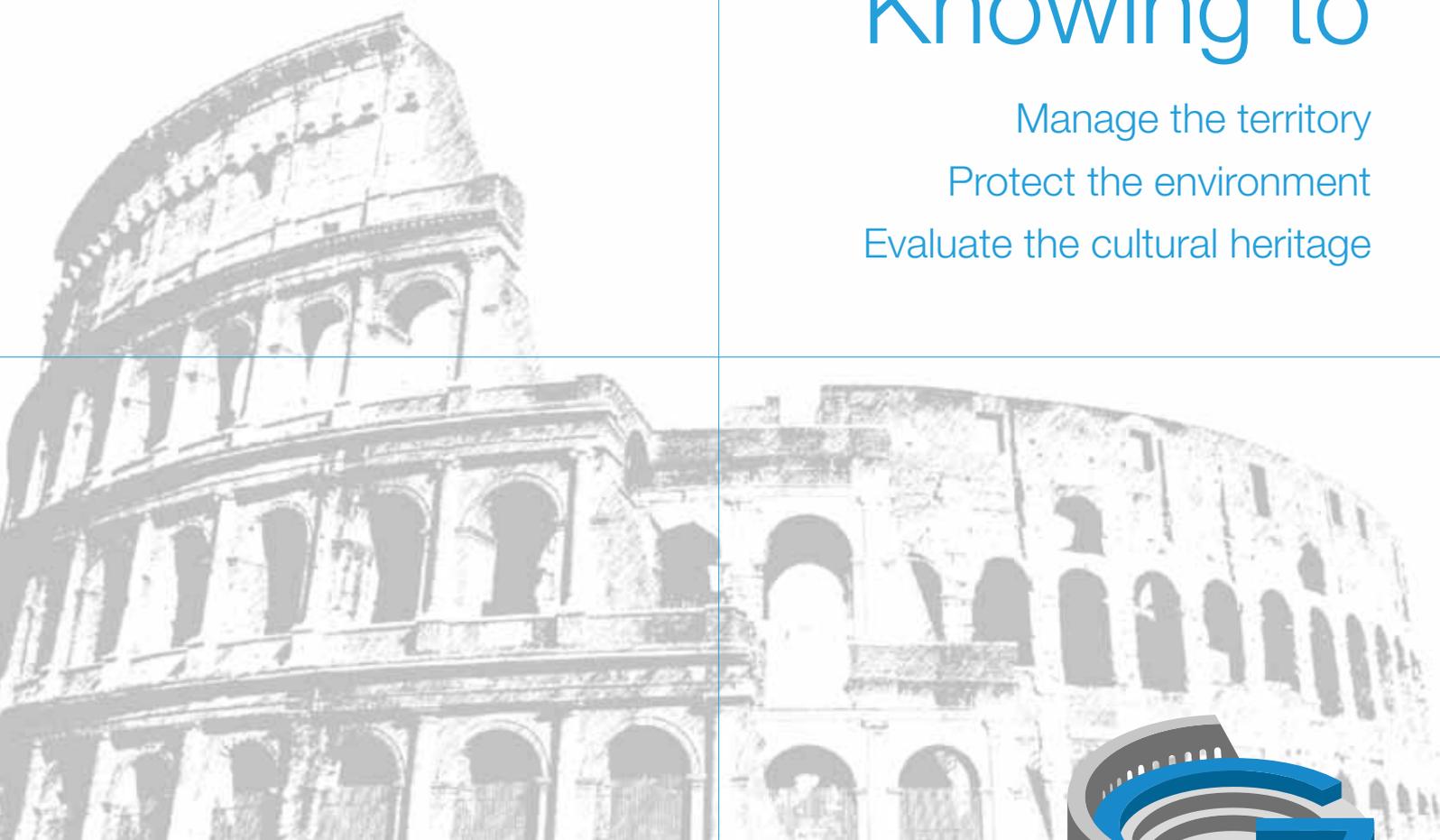


# FIG Working Week 2012

Rome, Italy 6–10 May 2012

## Knowing to

Manage the territory  
Protect the environment  
Evaluate the cultural heritage



## Program Book

[www.fig.net/fig2012](http://www.fig.net/fig2012)

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## FIG Working Week 2012

Knowing to manage the territory, to  
protect the environment  
and to evaluate the cultural heritage

## Welcome to FIG Working Week 2012 in Rome



*Dear Colleague,*

I'm particularly glad to welcome you to the Working Week 2012 and 35<sup>th</sup> General Assembly in the eternal city of Rome. Italy and the Italian surveyors want to share with you the universally-spread values that constitute the basis of our being together: human rights

protection, environmental preservation, respect for the identity and the culture of everyone, and, last but not least, solidarity among the nations and the different generations. It is according to these values that we chose the subject of our Italian Working Week: "Knowing to manage the territory, to protect the environment, and to evaluate the cultural heritage". We are also most delighted to host the 1<sup>st</sup> FIG Young Surveyors Conference linked to the Working Week. This is very important for us because most of the members of CNGeGL are young professionals. Our young professionals team members are all active in different FIG Commissions and truly embody the concept of "Young Surveyor". These young people represent the future and will assure the continuity of our profession and of the FIG.

We are also most delighted to have UN FAO as the main partner of this Working Week in the city of their headquarters as well as to other partners including UN-Habitat, CLTN and many other international and regional partners that have their meetings here in Rome.

We also encourage you to visit the artistic treasures in Rome and to let you know a culture that contributed so much to the creation of our modern society. Knowledge is the true and precious condition able to bring education to beauty, to a correct management of the environment, of the territory and of the cultural heritage. Therefore, the theme of the FIG Working Week is focused on this particular topic meant to live in the respect of the present human generation and, above all, of the future one. The Italian surveyors look forward to meeting you all coming from all the world! Enjoy your stay in Rome and Italy!

**Fausto Savoldi**  
CNGeGL President

### Welcome message from FIG President



*Colleagues, Friends and Participants*

Welcome to the FIG Working Week 2012 and to Rome, the Eternal City, a city with an immensely rich historical and cultural heritage as well as a cosmopolitan atmosphere. This year's Working Week will see our membership coming together for our

35<sup>th</sup> General Assembly as well as a technical program with over 500 presentations spread across approximately 100 sessions. Our inaugural Young Surveyors Conference precedes our General Assembly. It would be an eventful week that will also include some significant musical and cultural experiences, compliments of our co-organizer, CNGeGL, our Italian member association.

FIG is thankful to all participants from both near and far converging at this year's Working Week. In particular, FIG is thankful for the support of many of its partners, sponsors and contributors, especially UN FAO, this year's Institutional Partner; GLTN (UN-HABITAT) and its partners that include

grass roots and professional organizations; and the event's platinum sponsors, CNGeGL, Esri and Trimble.

The theme of the 2012 Working Week is "*Knowing to Manage the Territory – Protect the Environment – Evaluate the Cultural Heritage*". The theme addresses the challenges of day and in particular, the cultural heritage that Rome and Italy in particular are so famous for. The technical program should stimulate discussions amongst participants on the role and contribution of the surveying profession in addressing these challenges.

I trust that all participants will be able to renew past friendships, make new friends as well as having a stimulating time here at the Working Week, will be able to address various issues and challenges, suggest responses and actions, motivate and inspire each other towards contributions that will extent the usefulness of surveying for the betterment of humanity and in so doing, further enhance the relevance and standing of the surveying profession. I wish you a fruitful and wonderful time here at the Working Week and in Rome, Italy.

**CheeHai Teo**

FIG President

### Welcome greeting from Congress Director



*Dear colleagues,*

It is my pleasure on behalf of the Italian organizers and committee members to welcome you to the biggest FIG Working Week in the history. We expect almost 1,300 surveyors from 100 countries to attend this meeting. The technical program is overwhelming with more than 550 presentations in about 100 sessions and

forums. Papers have a high technical and scientific profile and speakers are all the most important representatives and expertise in the fields of cadastre, territory and environment representing all continents. The interest towards our event and Rome has exceeded all expectations. We try to do our best that all your expectations will be matched. In addition to the professional program and professional exhibition and exciting technical visits, please take your time to attend the first

class social events and enjoy both the cultural and culinary components of the program.

I would like to draw your attention especially to the opening ceremony and concert with the Roma Sinfonietta Orchestra at the famous music center Parco della Musica followed by the welcome buffet dinner. This spectacular event is something special. You should not miss either the cultural evening with first class Italian dinner and entertainment with Albano Carrisi. And for sure the conference dinner at the Villa Miani – a venue that almost seems to brush the cupola of St. Peter's – will be an memorable way to commence the Working Week enjoying the unique panorama overlooking the city of Rome. I am sure that these spring days in Rome will stay in your minds for years to come.

Enjoy the conference and your stay in Rome!

**Enrico Rispoli**

Congress Director

### International Federation of Surveyors



The *International Federation of Surveyors* is an international, non-government organization 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-recognized 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 practice them meet the needs of the markets and communities that they serve.

FIG Council members (2011–2014):

- President: Mr. **CheeHai Teo** (PEJUTA, Malaysia)
- Vice-President: Prof. Dr. **Dalal S. Alnaggar** (ECSM, Egypt) (2011–2012)
- Vice President: Mr. **Iain Greenway** (RICS, United Kingdom) (2011–2012)
- Vice President: Prof. Dr. **Chryssy Potsiou** (TCG,

Greece)

- Vice President: Prof. Dr. **Rudolf Staiger** (DWW, Germany)
- ACCO Representative: Dr. **Michael Sutherland** (CIG, Canada) (2011–2012).

FIG's technical work is led by ten Commissions

(Commission Chairs 2011–2014):

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

Read more: [www.fig.net](http://www.fig.net)

### Consiglio Nazionale Geometri e Geometri Laureati, CNGeGL



The **National Council of Surveyors and Graduate Surveyors** (Consiglio Nazionale Geometri e Geometri Laureati, CNGeGL) was formed by Royal Decree no. 274 of February

11, 1929. It is the central self-governance body for the surveyor profession. Organized under the Ministry of Justice, CNGeGL is headquartered in Rome.

Composition:

- 11 National Directors;
- elected by the governing councils of the 110 Boards of Surveyors;
- term of office lasts five years and appointees may be re-elected.

Composition CNGeGL:

- **Fausto Savoldi**, President
- **Franco Mazzocoli**, Vice President
- **Enrico Rispoli**, Secretary General
- **Antonio Benvenuti**, member

- **Pierpaolo Bonfanti**, member
- **Giuseppe Foresto**, member
- **Marco Nardini**, member
- **Ezio Piantedosi**, member
- **Bruno Razza**, member
- **Maurizio Savoncelli**, member
- **Giuliano Villi**, member
- **Paola Laudati**, General Manager

Under the legal system, CNGeGL, a non-profit public body, performs representative, advisory and jurisdictional functions. CNGeGL advises the government and parliament, a function that includes making proposals on changes to legislation affecting the profession. By issuing opinions and guidelines, it ensures that the 110 provincial or district Boards of Surveyors operate in a standardized manner by adopting decisions by a majority vote of Directors appointed. Peripheral organizations:

- 110 provincial Boards subject to the oversight of the Ministry of Justice;
- Governed by Viceregal Decree no. 382 of November 23, 1944;

CNGeGL, through agreements and conventions with national and local authorities, works:

- to promote the surveyor profession in order to improve it;
- to improve technical and interpersonal skills through mandatory continuing education;
- to guarantee the quality of professional services and protect clients;
- to achieve growing recognition by institutions.

CNGeGL exercises special jurisdiction by rendering decisions:

- on appeals by those enrolled against measures adopted by local boards concerning disciplinary matters, enrolment and/or removal from the roll
- on complaints regarding local board elections.

CNGeGL is a member of major international organizations: FIG, CLGE, AEEBC, TEGoVA, IVSC, WAVO, EGoS and UMG. Its area of expertise includes Construction and Environment, Land Management and Topography, Property and Valuation.

Read more: [www.cng.it](http://www.cng.it)

## Partners



### Food and Agricultural Organization of United Nations – FAO

Achieving food security for all is at the heart of FAO's efforts – to make sure people have regular access to enough high-quality food to lead active, healthy lives. FAO's mandate is to raise levels of nutrition, improve agricultural productivity, better the lives of rural populations and contribute to the growth of the world economy.

The Natural Resources Management and Environment Department mandate is to address these issues and provide leadership, technical and policy advice and knowledge towards the sustainable use of the earth's natural resources (land, water, genetic resources and biodiversity); improved responses to global environmental challenges affecting food and agriculture, such as climate change and land degradation; assessment of opportunities and challenges of bioenergy; and strengthened transfer and extension of knowledge required towards these goals. In addition, the Department serves as a neutral forum and venue for dialogue on sustainable use of natural resources. The Department consists of two Divisions: Climate, Energy and Tenure Division; and Land and Water Division.



### GLTN

The Global Land Tool Network (GLTN), as facilitated by UN-Habitat is a global partnership on land aimed at contributing to poverty alleviation and the Millennium Development Goals (MDGs) through land reform, improved land management and security of tenure. Its members include international civil society organizations, international research and training institutions, bi-lateral and multi-lateral organizations, grassroots organizations and international professional bodies like FIG. It aims to take a more holistic approach to land issues and improve global land coordination in various ways. These include the establishment of a continuum of land rights, rather than a narrow focus on individual land titling, the improvement and development of pro-poor land management, as well as land tenure tools, amongst others.



### UN-HABITAT

The United Nations Human Settlements Programme, UN-HABITAT, is the United Nations agency for human settlements. It is mandated by the UN General Assembly to promote socially and environmentally sustainable towns and cities with the goal of providing adequate shelter for all. Towns and cities are growing today at unprecedented rates setting the social, political, cultural and environmental trends of the world, both good and bad. In 1950, one-third of the world's people lived in cities. Just 50 years later, this rose to one-half and will continue to grow to two-thirds, or 6 billion people, by 2050. Cities are now home to half of humankind. UN-HABITAT's programs are designed to help policy-makers and local communities get to grips with the human settlements and urban issues and find workable, lasting solutions.

UN-HABITAT's strategic vision is anchored in a four-pillar strategy aimed at attaining the goal of Cities without Slums. This strategy consists of advocacy of global norms, analysis of information, field-testing of solutions and financing. These fall under the four core functions assigned to the agency by world governments – monitoring and research, policy development, capacity building and financing for housing and urban development.

Headquarters of CNGeGL.



# Organizing Committee

## Steering Committee



Chair  
**CheeHai Teo**  
President, FIG



Vice Chair  
**Fausto Savoldi**  
President, CNGeGL



Congress Director  
**Enrico Rispoli**



**Markku Villikka**  
Director, FIG

## FIG Office



**Louise Friis-Hansen**  
Office Manager  
Conference Coordinator, FIG 2012



**Hanne Elster**  
Office Coordinator  
Deputy Conference Coordinator, FIG 2012

## Organizing Committee



**Fausto Savoldi**  
President, CNGeGL  
Chair of the Organizing Committee



**Enrico Rispoli**  
Secretary General, CNGeGL  
Congress Director, FIG 2012



**Bruno Razza**  
Board member, CNGeGL  
Co-chair of Scientific Committee, FIG 2012



**Antonio Benvenuti**  
Board member, CNGeGL  
Co-chair of Scientific Committee, FIG 2012



**Maria Scorza**  
International Organization Chair, CNGeGL  
Conference Coordinator, FIG 2012



# The latest news in one location

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Accuracy  
Metadata  
Remotely Sensed  
Warehousing  
Capture/Conversion  
Legislation and Privacy Issues  
Standards / Availability  
Web & Wireless Content  
Data Integration  
Offshore Services

### SOFTWARE

Surveying  
Cartographic Production  
Visualisation  
WebMapping  
Image Processing / Compression  
Spatial Databases  
Digital Photogrammetry  
Cadastre/LIS  
3-D Modelling  
Geomarketing  
Addressing and Geocoding

### HARDWARE

Large Format Printers & Plotters  
PC/Workstation Technology  
Hand-Held Devices for Personal Nav.  
Speech Recog. & Voice Output Tech.  
Analogue & Digital Airborne Cameras  
Laser Range Finders  
GPS/GIS Data Capture  
Photogrammetric Workstations  
Bulk Data Storage  
Wireless Technology  
Surveying Instruments

### APPLICATIONS

Environmental/Natural Resources  
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Parco della Musica – Venue for the Opening Ceremony.



General Assembly at Rome Cavalieri Hotel.

## FIG Working Week 2012 Events

Detailed technical program is presented in a separate *Technical Program* booklet and in the *Proceedings* ([www.fig.net/pub/fig2012](http://www.fig.net/pub/fig2012)).

### General Assembly – Session I

**Sunday 6 May 2012, 9:00–12:00 and 13:00–15:00**

**Cavalieri 3&4, Rome Cavalieri**

### Opening Ceremony

**Monday 7 May 2012, 19:30–23:00**

**Venue: Giuseppe Sinopoli Hall, Parco della Musica**

**Moderator: Enrico Rispoli, Congress Director, FIG 2012**

The Opening ceremony will be held in Giuseppe Sinopoli Hall at the Auditorium Parco della Musica (<http://www.auditorium.com>, address: Viale Pietro de Coubertin). The program will consist of welcome ceremony with speeches, a concert and a welcome reception with buffet dinner. The Opening ceremony is free for all registered participants.

The venue of the Opening Ceremony *Auditorium Parco della Musica* has ever since its inauguration in 2002 been a leading cultural scene for the city of Rome. Every year over one million people, visit this multi-functional arts complex, and the home of the famous Accademia Nazionale di Santa Cecilia. The auditorium offers concerts of symphonic and chamber music, jazz, pop, rock and world music as well as film premieres, stage plays, art exhibits and literary performances. It is designed by famous architect **Renzo Piano**. The instrument museum that belongs to the auditorium is open for the visitors during the opening reception. The opening and the concert will be held at the main hall dedicated the great composer and conductor Giuseppe Sinopoli.

The opening concert will be performed by the **Roma Sinfonietta Orchestra** conducted by maestro **Massimiliano Carlini**. The program will consist of music from **Astor Piazzolla** and **Nino Rota**.

Dress code: Smart casual.

### Opening Address

- **Honorable Corrado Clini, Minister for Environment and Protection of Land and Sea**



Corrado Clini is the Italian Minister of Environment in the government Mario Monti since November 2011. He has a Bachelor of Science in Medicine from the University of Parma in 1972, followed by a PhD in Occupational Health from Padua University, and another PhD in Hygiene and Public Health from Marche Polytechnic University in 1986. From 1978 to 1990 he served as Sanitary Director of the Public Service of Hygiene and Medicine in Port Marghera (Venice). From 1992 to 1998 worked as a university professor at the University of Parma. He was a member of the executive board of ENEA from 1993 to the 1997 and Vice Commissioner from 2004 to 2007.

The overall theme of the 2012 Working Week is “*Knowing to Manage the Territory – Protect the Environment – Evaluate the Cultural Heritage*”. The theme addresses the challenges of day and in particular, the cultural heritage that Italy and Rome in particular are so famous for. The aim is that the technical program should stimulate presentations and discussions amongst participants on the role and contribution of the surveying profession in addressing these challenges.

### Plenary Session 1: Knowledge to Manage

Monday 7 May 2012, 11:00–12:30

Venue: Cavalieri 4

Co-chairs: Mr. CheeHai Teo, FIG President, Malaysia and Geom. Fausto Savoldi, CNGeGL President, Italy

- Mr. **Alexander Müller**, Assistant Director General, Natural Resources Management and Environment Department, Food and Agriculture Organization of the United Nations: *Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security*



Alexander Müller is since 2006 the Assistant Director-General of the Natural Resources Management and Environment Department of the Food and Agriculture Organization of the United Nations in Rome, Italy. From 2008 to 2011 he was the Chair, United Nations

System Standing Committee on Nutrition (SCN).

From 2001 to 2005 he was the State Secretary, Federal Ministry of Consumer Protection, Food and Agriculture, Berlin, Germany and from 1995 to 2001 a Member of Parliament, Hesse, Germany; Chairman of the Caucus of the Green Party; Member of the Committee of Environmental Affairs, of the Finance Committee and of the Committee for New Media, Wiesbaden, Germany.

1992–1995: State Secretary, Hessian Ministry of Youth, Family and Health Affairs, Wiesbaden, Germany.

His education background is Master of Social Sciences (Sociology, Political Sciences) at Philipps-Universität in Marburg, Germany, 1977–1985.

- Ms. **Stefania Prestigiaco**, Minister for Environment and Protection of Land and Sea, 2008–2011: *Special Projects Studied by the Environmental Commission of the Parliament*



Stefania Prestigiaco (born 1966) has Science degree in public administration and entrepreneur. She was elected for the first time in parliament in 1994. She belongs to the parliamentary group: Polo della Libertà. She is a member of Parliamentary Committees: VIII Commission (Environment, Land and Public Works)

and X Commission (Business Production, Trade and Tourism). Prime Minister Berlusconi chose her as minister for Equal Opportunity, a position she held until 2006 with the end of the Berlusconi Government III. She was one of the youngest ministers in the history of the Republic. She has served in the IV Berlusconi Government as the Minister for the Environment, Land and Sea from 2008 until November 2011.

- Eng. **Franco Maggio**, Director of the Central Cadastre and Cartography Management of the Agenzia del Territorio: *The Italian Cadastre and the Real Estate Taxation*



Franco Maggio is the Director of the Central Department of Cadastre and Cartography of the Italian Land Agency. He has a degree in Civil Engineering from the University of the “Studi of Genova” in 1978.

Ing. Maggio is responsible for providing rules and procedures for cadastral and cartographic services and coordinating their implementation at the regional offices, ensuring integration and enhancement of databases of land and real estate. He is also responsible for the management of relationships with local authorities.

- Co-Chair **Fausto Savoldi**, CNGeGL President, Italy: *Summary of the presentations*

### Plenary Session 2: Knowledge to Protect

Tuesday 8 May 2012, 11:00–12:30

Venue: Cavalieri 4

Co-chairs: Mr. Iain Greenway, FIG Vice President, United Kingdom and Geom. Bruno Razza, Member of CNGeGL, Italy

- Mr. **Norbert Lantschner**, Past Director, Clima Haus, Italy: *The New Goal of Building Sustainable*

Energy means power and wealth. The fossil energy resources are becoming scarce. We are facing a growing energy demand and declining production that leads to a problematic energy situation certainly keeping in mind that 90% of global energy demand is covered by non-renewable energy. How to respond to this challenge? Our society needs to slim down energetically. Sustainable behavior means for a European to cut by two thirds the current total primary energy and step by step to replace fossil fuels with alternative energy. The first major sector of society is to transform the building industry, which in Europe is responsible for 40% of the consumed energy. Building means trust in the future, that still is not known in detail. Precisely for this reason we have to choose energy efficient buildings, comfort and sustainability.

Norbert Lantschner is Director at the Clima Haus in Bolzano since



2006. He is scientific member of “KlimaHaus Master” at the Free University of Bolzano (2000–2001) and has been the President of the “Dachverband für Natur- und Umweltschutz“ South Tyrol 1992–2006. He has also worked as the Head of the office for Air and Noise of the Autonomous

Province of Bolzano in 1972 and in 1977 joined the Public Service of South Tyrol – office for “Naturhaushalt” (Province department of ecology). He is the creator of the “KlimaHaus/CasaClima” project and the “KlimaHaus/CasaClima” protocol. Under his supervision over 2000 energy saving buildings (Clima Haus standard) were certificated all over Italy. He is an internationally known speaker and consultant. He presented Clima Haus at the UN Climate Change Conference in Montreal (2005) and at numerous conferences in Italy, Austria and Germany. The KlimaHaus/CasaClima label has been nominated for the Sustainable Energy Europe Award 2009. He has been a lecturer at the “La Sapienza” University at Rome, the Free University of Bozen/Bolzano, University of Camerino and LUMSA University, Rome.

• Prof. **Orhan Altan**, President of International Society of Photogrammetry and Remote Sensing, ISPRS, Turkey: *Use of Geospatial Information at Present Day Disaster Management* Governments, international organizations and research institutions worldwide have set to work to improve disaster management in all its phases: mitigation, preparedness, relief and response, and recovery and reconstruction. Many governments have put the formation of a hazard-resistant and disaster coping society on their political agenda as an important factor of sustainable economic development and better quality of civil life. In this respect, the awareness of new geospatial technologies and their successful utilization in disaster management is becoming crucial. These technologies are emerging very fast.

Meteorological and earth observation satellites, communication satellites and satellite-based navigation and positioning systems may help to improve prediction and monitoring of potential hazards, risk mitigation and disaster management, contributing in turn to reduce losses of life and property. Global navigation satellites and earth observation satellites have already demonstrated their flexibility in providing data for a broad range of applications: weather forecasting, vehicle tracking, disaster alerting, forest fire and flood monitoring, oil spill detection, desertification monitoring, and crop and forestry damage assessment. Monitoring and management of recent natural disasters have greatly benefited from satellite imagery, such as the Indian Ocean tsunami in 2004, floods (Austria, Romania, Switzerland, and Germany in 2005), hurricanes (USA in 2005), forest fires (Portugal, France, Greece, Australia in 2005, 2008), earth-

quakes (Pakistan in 2005, Indonesia in 2006, Haiti 2010) and lastly in Japan and Turkey.

The presenter will try to demonstrate how Space Technology (Geoinformation Technology) can be efficiently integrated into disaster management, encompassing data collection (remote sensing, sensor networks, and mobile systems), data processing, and production of maps, which are further integrated, analyzed and visualized in GIS/Web-GIS.

Prof. Orhan Altan studied at the Faculty of Civil Engineering at Istanbul



Technical University 1965–1970 and graduated as Dipl.- Ing in Civil Engineering. Since 1988 he has been a Full Professor at the Istanbul Technical University

He is member of the American and German Societies for Photogrammetry and Remote Sensing, and several national and international societies.

He is member of the UN expert group of the ad-hoc Committee of the UN Entity, SPIDER (Space-based Information for Disaster Management and Emergence Response) and chair of the JB GIS ad hoc Committee on Risk and Disaster Management.

He is also Corresponding Member of the International Academy of Astronautics and in September 2011 he is elected to the Executive Board of the ICSU (International Council for Science).

He was the Congress Director of the ISPRS Congress in 2004 in Istanbul, Secretary General of ISPRS 2004–2008. and the President of ISPRS for the period 2008–2012.

He has published more than 160 papers in Turkish, German and English in Domestic and International Journals. He is editor or co-editor of more than 16 International Books.

• Prof. Dr.-Ing. **Karl-Friedrich Thöne**, President, DVW, Germany: *Meeting the Environmental Issues – A Challenge for Surveyors and Surveying Associations*

The presentation will address the increase of the political awareness for precise, actual and 3D digital geoinformation (EU INSPIRE directive for creating a common geodata infrastructure for all action fields of European policy making, especially facing the environmental change).

Geodesy, geoinformation and land management play an important role in all key sociopolitical issues such as global change, climate policy, energy supply, disaster prevention, inner security, demographic change, e-government or modernisation of the state as well as data protection and data security.

The presentation further discussed the fundamental role of a connected geo-community – shaping networks between politics, government, administration, private economy, industry, science, research and education.

Pro-active communication has a crucial role in contribu-

tion of the surveying profession in direct connection to societal megatrends and changes as a promotion and image strategy.

The presentation will further address the new orientation for surveyors in the field of geodesy, geoinformation and land management in Germany – DVW's integrative role as a platform and stakeholder for the entire surveyor's community (INTERGEO, young blood initiatives, political lobbying, membership policy, organization, education and training, networking, international engagement, technical progress).

Prof. Dr.-Ing. Karl-Friedrich Thöne is the President of the DVW – German Association for Geodesy, Geoinformation and Land Management.



He has a Doctorate (PhD) in Engineer Sciences (Dr-Ing.) in 1994 at the Technical University of Berlin.

Since 1998 he has been Director-General for the Development of Rural Spaces and Forestry, Thuringian Ministry for Agriculture, Nature Conservation and Environment in Erfurt, Thuringia, Germany.

He is an Honorary Professor at the Technical University of Dresden for International Land Policy and Land Management.

He has worked on diverse on-the-job consultancies mainly for the German Development Cooperation Agency (gtz) in Portugal, the Baltic states, Indonesia, Taiwan, Russia, Eastern Europe and Cambodia – land policy, good governance, land management, land administration, valuation, professional education.

- Co-Chair **Bruno Razza**, CNGeGL Member, Italy: *Summary of the presentations*

### Plenary Session 3: Knowledge to Evaluate

Wednesday 9 May 2012, 11:00–12:30

Venue: Cavalieri 4

Co-chairs: Prof. Dalal S. Alnaggar, FIG Vice President Egypt, Franco Mazzocchi CNGeGL Vice President, Italy

- **Mario Resca**, General Director, Development for Cultural Heritage, Ministry for Cultural Heritage, Italy: *Enhancement of cultural heritage through the public awareness*



Mr. Mario Resca (born 1945) is the General Director for the Development for Cultural Heritage in the Cultural Heritage Ministry since 2009. From 2011 he has also been the President of the Italian Convention Bureau and from 2010 Special Administrator of Great Brera, Pinacoteca di Brera and since 2008 Advisor to Sandro Bondi, Minister for Cultural Heritage. He has a degree in economics from Bocconi University, Milan (1969). He has granted Award Cavaliere del Lavoro of the Italian Republic in 2002.

- Dr. **Fabio Remondino**, FBK, Italy: *3D Surveying and Modelling Technologies for the Digital Preservation of Cultural Heritage*



Dr. Remondino has PhD in photogrammetry from IGP – ETH Zurich, Switzerland in 2006 and has been in Post doctoral research at SOI Unit at FBK Trento, Italy 2007–2010 and since 2010 he has been the Head of 3DOM Research Unit at FBK Trento in Italy.

His research areas cover: photogrammetry, laser scanning, 3D modelling, image processing and remote sensing.

He is Chairman of ISPRS WGV/4 “Image- and range-based 3D modeling” and ISPRS Society Delegate for CIPA 2008–2012. In 2004–2008 he was co-chair of ISPRS WGV/4 “Virtual Reality and Computer Animation”.

He has been popular invited speaker at international conferences in Italy, China, Germany, USA and Norway especially on 3D modelling of cultural objects

He has several awards for best articles at international conferences 2002–2008.

- Mr. **See Lian Ong**, RICS President, United Kingdom: *Preserving the Built Environment: Importance of Building Information Modeling*



See Lian Ong KMN, BSc (Hons), PPISM, FISM, FRICS, ICECA is RICS President 2011–2012.

See Lian Ong was inaugurated as the 130<sup>th</sup> President of RICS in July 2011. He is the first non-British President in the 143 year history of RICS.

He has also served as Chair of RICS Asia Board for over 5 years (July 2005 – November 2010).

See Lian has an illustrious career spanning more than 38 years in both the public and private sectors of the construction industry. He has recently retired as Executive Director / Partner of Davis Langdon & Seah (Malaysia) Pte. Ltd. and Managing Director of DLS Management (Malaysia) Pte. Ltd.

He is Past Chairman of the Pacific Association of Quantity Surveyors, PAQS (2003–2005) and Past President of the Institution of Surveyors Malaysia, ISM (2003–2004). He is a Fellow member of the Institution of Surveyors Malaysia (ISM), a Registered Quantity Surveyor with the Board of Quantity Surveyors Malaysia and an Accredited Mediator with the Construction Industry Development Board Malaysia (CIDB).

See Lian is a much sought after speaker and he has presented numerous papers at various international conferences. In recognition of his vast contributions to the profession and the property and construction industry, he was awarded the KMN (2003), PAQS Medal (2007), “Malaysian Surveyor of the Year” Award (2008) and ICEC Award of Appreciation (2008).

- Co-Chair Prof. **Dalal S. Alnaggar**, FIG Vice President, Egypt: *Summary of the presentations*



Opening Reception at the Parco della Musica.



Commission dinners allow finding your own Rome.



Albano Carrisi  
FIG Foundation entertainer.

## Social Events

The social program includes the Opening Ceremony at the Auditorium Parco della Musica followed by symphony concert and welcome reception, joint Italian Evening and FIG Foundation Dinner, Conference Dinner at Villa Miani, Commission dinners and Farewell reception.

### Opening Ceremony, Concert and Welcome Reception

**Time: Monday 7 May 2012, 19:30–23:00**

**Venue: Giuseppe Sinopoli Hall, Parco della Musica**

**Fee: Free, registration required**

**Dress code: Smart casual**

All registered delegates will attend the opening ceremony at the Giuseppe Sinopoli Hall at the Parco della Musica, Rome's new music centre designed by world-famous architect Renzo Piano. The formal opening ceremony with speeches will be followed by a concert performed by the Roma Sinfonietta Orchestra conducted by maestro **Massimiliano Carsini**. The program will consist of music from Astor Piazzolla and Nino Rota. The concert will be followed by welcome reception and a buffet dinner. There is also possibility to see the museum at the Parco della Musica. The opening concert is sponsored by Consiglio Nazionale Geometri e Geometri Laureati, CNGeGL.

### Commission Dinners

**Time: Sunday 6 May 2012, 19:00–**

**Venue: From Commission**

**Fee: Individual payment**

**Dress code: Casual**

Sunday evening is reserved for Commission dinners and time on your own. Details of Commission dinners will be sent to Commission delegates. More information to be provided by each Commission.

### Italian Evening and FIG Foundation Dinner

**Time: Tuesday 8 May 2012, 20:00–22:30**

**Venue: Cavalieri Hilton, Grand Ballroom**

**Dress code: Smart casual**

**Fee: 90 € for the dinner and concert and 30 € for the concert only (incl. a drink)**

The Italian evening and the FIG Foundation Dinner will offer an excellent opportunity to get to know about the Italian culture, enjoy the art of the world famous Italian singer and entertainer **Albano Carrisi** (world-famous from the duo **Al Bano** and **Romina Power**).

During the dinner the **Bandiera Gialla** (Yellow Flag) quintet will present the most beautiful Italian songs from the 1960s to 1980s. The group is distinguished by the vocal abilities of members, with an original sound of that time in live music. They performed in over 60 concerts since forming the group in 2008.

The FIG Foundation Dinner is sponsored by Trimble and the Bandiera Gialla Group and the concert of Albano Carrisi and by Consiglio Nazionale Geometri e Geometri Laureati, CNGeGL.

### Conference Dinner

**Time: Wednesday 9 May 2012, 20:00–24:00**

**Venue: Villa Miani, Via Trionfale, 151, 00136 Rome (next to Rome Cavalieri), [www.villamiani.com](http://www.villamiani.com)**

**Fee: 125 €**

**Dress code: Lounge suit**

The conference dinner will be held at Villa Miani that will conclude the Working Week in grand style. It will offer the best that Rome can offer.

Villa Miani is built high up on the slopes of Monte Mario in the early 1900s for the Miani Counts, this villa almost seems to brush the cupola of St. Peter's. Built in King Humbert (Victorian) style, this wonderful home is immersed in the greenery of a beautifully kept garden, and offers a unique panorama overlooking the city of Rome.

### Farewell Reception

**Time: Thursday 10 May 2012, 15:00–16:00**

**Venue: Cavalieri 2, Rome Cavalieri**

**Fee: Free to Working Week participants**

**Dress code: Smart casual**

After the closing ceremony gather for a drink and snacks to conclude the busy week with friends and have a taste of Working Week 2013 in Nigeria.

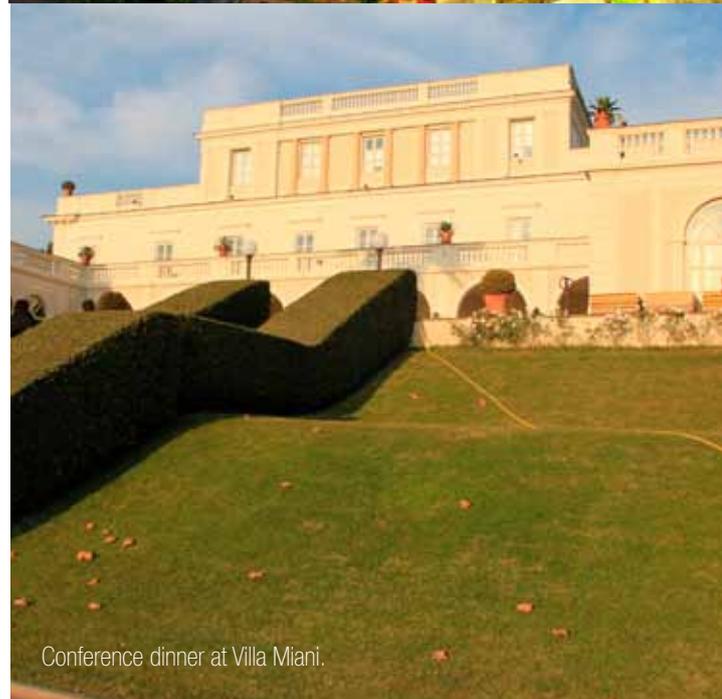
### Forums

During the Working Week several special forums will be organized. These include the Director General Forum on Tuesday 8 May for the CEOs of national mapping and cadastre agencies, FIG Academic Forum for universities and other FIG academic members, FIG Corporate Members Forum for FIG business partners and for Presidents of member associations Presidents' Coffee and Presidents' Meeting that will allow more time for Presidents of FIG member associations to discuss any issues of their interest. This will be an additional opportunity for the presidents for networking and platform to change experiences in addition to the traditional Presidents' meeting on the last day of the conference.

Also several professional forums and dialogues will be organized with partners like FAO, GLTN, and FIG Commissions and Task Forces as well as corporate partners like GIM International.

FIG permanent institution on history for surveying and measurement will organize a history workshop 4–5 May 2012 at the Fondazione dei Geometri Italiani.

CNGeGL will organize a special forum on "Professional Woman – Development of Advanced Economy" on Wednesday 9 May from 14:00–15:30 in Cavalieri. The discussion will be moderated by journalist Mariella Venditti, RAI3 and participants will represent leading Italian and international experts on women and their role in professional life. The meeting is open for all interested participants.



Conference dinner at Villa Miani.



Piazza di Spagna

## FAO Program

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### FIG/FAO Forum “Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security”



FAO and its partners, including FIG, have been working over the past four years to prepare Voluntary Guidelines to improve the governance of tenure of land, fisheries and forests.

These Voluntary Guidelines are intended to assist states, civil society and the private sector in improving the governance of tenure, and thus contribute to alleviating hunger and poverty, empowering the poor and vulnerable, enhancing the environment, supporting national and local economic development, and reforming public administration.

Weak governance is a cause of many tenure-related problems, and attempts to address tenure problems are affected by the quality of governance. Weak governance is found in formal statutory land administration as well as in informal and customary tenure arrangements. It flourishes where the law is complex, inconsistent or obsolete; where people who work in land agencies lack motivation and are poorly trained and paid; where decision-making processes are not transparent; and where civil society is weak. The poor are vulnerable to the effects of weak governance as they lack the ability to protect their rights to land and other natural resources.

Voluntary Guidelines set out principles and internationally accepted standards for responsible practices. They

provide a framework that States can use when developing their own strategies, policies, legislation and programs. They allow government authorities, the private sector, civil society and citizens to judge whether their proposed actions and the actions of others constitute acceptable practices.

The inter-governmental negotiations on the Voluntary Guidelines in the context of National Food Security were successfully finalized on 9<sup>th</sup> March 2012. About 96 member countries along with civil society organizations, UN agencies and other international organizations, farmers associations, and private sector representatives took part in three rounds of negotiations, led by an Open Ended Working Group of the Committee on World Food Security (CFS). The guidelines will be considered for final endorsement by the CFS at a special session in Rome in mid-May. Upon adoption, the focus of effort and partnership will shift to the implementation of the Voluntary Guidelines. While FAO anticipates that there will be substantial take-up and requests for support from member countries to which it will respond, there are expected to be opportunities to help with implementation for all stakeholders, including particularly professional associations such as FIG and their respective national member associations.

At the FAO/FIG Forum there will be 3 technical sessions on Monday 7 May and a workshop at the FAO Headquarters as a technical tour on 8 May.

## GLTN Program

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The Global Land Tool Network (GLTN), as facilitated by UN-Habitat is a global partnership on land aimed at contributing to poverty

alleviation and the Millennium Development Goals (MDGs) through land reform, improved land management and security of tenure. Its members include international civil society organizations, international research and training institutions, bi-lateral and multi-lateral organizations, grassroots organizations and international professional bodies like FIG. It aims to take a more holistic approach to land issues and improve global land coordination in various ways. These include the establishment of a continuum of land rights, rather than a narrow focus on individual land titling, the improvement and development of pro-poor land management, as well as land tenure tools, amongst others. GLTN partners have identified and agreed on 18 key land tools to deal with poverty and land issues at the country level across all regions. The Network partners argue that the existing lack of these tools,

as well as land governance challenges, is the main cause of failed implementation at scale of land policies worldwide. The GLTN is a demand driven network where many individuals and groups have come together to address this global problem. For further information, and registration, visit the GLTN web site at [www.glttn.net](http://www.glttn.net).

FIG is an active partner of GLTN and also a member of the International Advisory Board (IAB) representing the land professional groups. In the last five years, FIG has been promoting the adoption of appropriate, pro-poor and gender sensitive land tools within the land governance framework. In particular, FIG and its leaders and members have been very supportive in the following initiatives: development of the Social Tenure Domain Model (STDm) – a pro-poor land rights recording system, development and testing of a gender evaluation criteria tool, implementing the mission objectives of the FIG Africa Task Force and other capacity development initiatives.

During the FIG Working Week 2012, GLTN and FIG will again highlight the core objectives and messages of the

partnership through the joint FIG/GLTN sessions. These joint sessions will attempt to achieve the following objectives:

- To deepen the understanding of the role of land professionals in advancing the GLTN agenda;
- To understand the work and advocacy of the grassroots organizations and strengthen its linkages with the work of the land professionals;
- To highlight key emerging tools and innovations of the Network and explore possible areas of cooperation; and
- To further improve the knowledge, awareness and capacity of land professionals and other Network

members to significantly contribute to the achievement of the objectives and mission of both FIG and GLTN.

Partners to these sessions are: the land professional cluster (list to be added this pertains to the land professional cluster forum session) and the following: Huairou Commission; International Land Coalition; Slum Dwellers International; University of Twente; and ITC- Netherlands. The grassroots organization that will be presenting are the Maasai Women Development Organization (MWEDO) and the Society for the Promotion of Area Resource Centres (SPARC).

## Special Seminars



### First FIG Young Surveyors Conference: Knowing to create the future

**4–5 May 2012 – Cassa Geometri**

FIG will organize the First FIG Young Surveyors' Conference 4–5 May 2012 at the Cassa Geometri in central Rome.

The aim of the Young Surveyors Conference is to create a platform for young surveying professionals to network and discuss issues of common interest. In addition it will:

- Provide attendees with a reduced registration cost to the full Working Week to increase the attendance of young surveyors, particularly young professionals, at the FIG Working Week
- Increase the participation of young surveyors in the FIG Commissions
- Provide young surveyors with the opportunity to have a say in the future of the profession and the FIG
- Offer a more informal platform for presenting than at traditional conference
- Provide an introduction to the full Working Week to all young surveyors to get the best FIG experience possible.

The aim is to develop as conclusion of the conference a Vision for the Future of the Young Surveyors Conference and to provide each FIG Commission with a work plan on how best to integrate young professionals in the work of FIG. The Platinum Sponsors of FIG Working Week 2012: Trimble Navigation, ESRI and Consiglio Nazionale Geometri e Geometri Laureati (CNGeGL) as well as Cassa Geometri are the main sponsors of the Young Surveyors Conference.



### IAG/Commission 5/ICG Seminar

#### IAG/FIG Commission 5/ICG Technical Seminar

#### Reference Frame in Practice

**4–5 May 2012, Cassa Geometri**

This seminar is seeking operational geodesists or surveyors who are working with reference frame issues either in a government or commercial based environment. It is also open to academics that have either a post-graduate or Masters degree in a surveying or related discipline. Distinguished geodesists from different organizations and disciplines will provide attendees with informative presentations and material. Already presenters as Chris Rizos, Zuheir Altamimi, Ruth Neilan, Michael Sideris, Joao Torres, John Dawson, and Graeme Blick have indicated their provisional support for this event. The themes include:

- The Role of Geodesy – GGOS and Future Trends
- Global Terrestrial Reference Systems and Frames
- Regional and National reference systems
- IGS services and other initiatives
- Four dimensional deformation models for Terrestrial Reference Frames
- Gravity and WHS
- Worked examples of Terrestrial Reference Frame realizations
- Multi GNSS Environment
- Standards and Traceability of a Terrestrial Reference Frames / GNSS.

Sponsors of the First FIG Young Surveyors Conference and IAG/FIG Commission 5/ICG Technical Seminar:



# Technical Program



In the Working Week “Knowing to manage the territory, to protect the environment and to evaluate the cultural heritage” there are in total more than 500 presentations in almost 100 sessions and forums. The technical program will run from Monday 7 May until Wednesday 9 May 2012. During these days that are also several smaller group sessions and workshops organized by the Commissions. Detailed technical program is published as a separate booklet. The technical program is also on the web at [www.fig.net/pub/fig2012](http://www.fig.net/pub/fig2012).

## FIG Commission Meetings

FIG has ten technical Commissions and four Task Forces. They all have their meetings for national delegates and observers on Sunday 6 May 2012 from 16:00 to 18:00. In addition during the week there are meetings of different Commission Working Groups and Task Forces (see Technical Program for details and venues).

## Sponsors

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### YOUNG SURVEYORS CONFERENCE SPONSORS



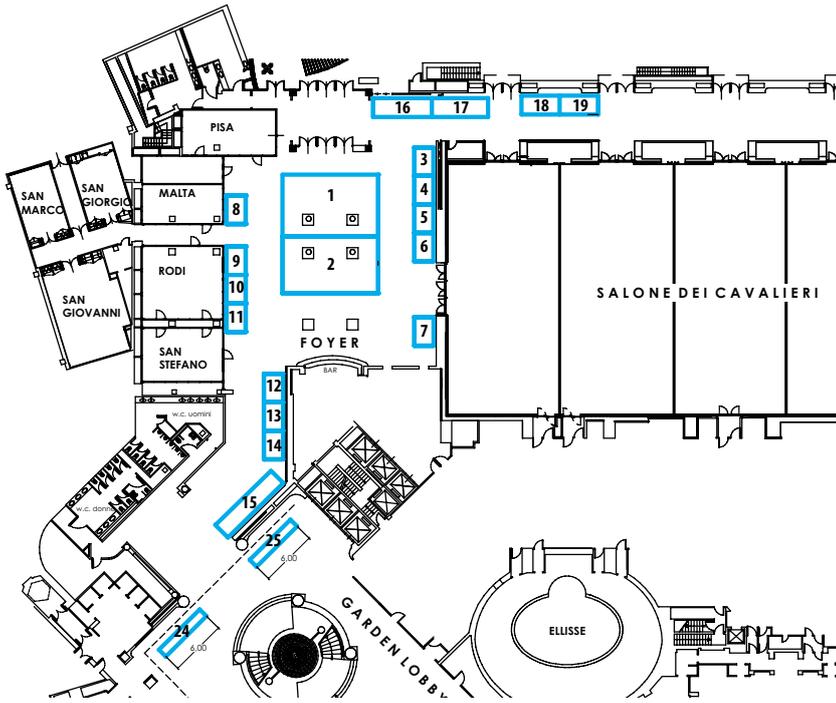
## Surveying Instrument collection on display at the Working Week



The senior surveyor **Giovanni Cavaliere** presents a collection that combines ideally, just over the 150 years of unity of Italy, the lives and work of three generations of men in the family Cavalieri: Luciano great-grandfather (graduated in Naples in 1863),

grandfather Giovanni and his nephew Giovanni (Nini). All the 3 surveyors and topographers as a real lifestyle choice. The wonder of all the working tools, including some rare, determines the desire to use them not only by fans. This instrumentation is perfect and pristine in every part that transmits the feeling of vitality that it encloses. Offering for all participants to see this live collection means better understanding in the peculiarities of each instrument: the dating, the manufacturers, the technical characteristics, the specific functional perfection.

In particular it has to be considered that the reliability of these tools have given to the surveyors the safety of the accuracy of the survey before that the use of digital instrumentation and satellite would change forever this difficult but exciting “job”. The catalog of the book contains the complete data sheet for each piece. Publication of these instruments will be launched at the Working Week where the instruments are also in display in the exhibition.



List of exhibitors

Booth		Company
1		ESRI, USA
2		Trimble, USA
3		CAM2 srl
4		Marsh & McLennan Companies
5		Shanghai HuaCe Navigation Technology Ltd. (or CHC)
6		KQ GEO Technologies Co., Ltd.
7		FIG 2013 Nigeria
8		Faynot, France
9		Omnitech
10-11		Leica
12		THOMSON REUTERS
13		FIG
14		New Zealand Institute of Surveyors
15		Old Instrument exhibition
16		South Survey
17-19		CNGeGL GeoWeb Cassa Italiana di Previdenza e Assistenza Geometri
24		FIG 8th FIG Regional Conference in Uruguay FIG 2014 Malaysia
25		Media area



Esri's geographic Information system (GIS) technology has given clients the power to think and plan geographically for over 40 years. Used today in more than 350,000 organizations worldwide, GIS helps cities, governments, universities, and Fortune 500 companies save money, lives, and our environment. GIS helps you understand and question data in ways that reveal relationships, patterns, and trends. So whether you are transporting ethanol or studying landslides, you can use GIS to solve problems and make better decisions, because a GIS enables you to look at your valuable data in a way that is quickly understood and easily shared. ESRI supports the implementation of GIS technology on the desktop, servers, online services, and mobile devices.



Trimble transforms the way work is done through the application of innovative positioning. By integrating a wide range of positioning technologies such as GPS, laser, optical and inertial with application software, wireless communications and services, Trimble provides complete solutions that are focused on applications requiring position or location – including surveying, construction, mining, agriculture, utilities, public safety, asset management and mapping. Trimble solutions are used in over 100 countries around the world. Our portfolio includes over 900 patents and serves as the basis for the broadest positioning offerings in the industry. With employees in more than 21 countries and a highly capable network of distribution partners, Trimble customers are served and supported with world-class training, support and service capabilities. Visit our booth to see the latest Trimble positioning solutions including surveying, mapping, GNSS infrastructure network, photogrammetry and LIDAR. Find out how Trimble's unique positioning solutions can help you increase your productivity and grow your business!

# Program at a Glance

		Monday 10:30–17:30		Exhibition Tuesday 9:00–17:30		Wednesday 9:00–16:00	
Time	Friday 4 May	Saturday 5 May	Sunday 6 May	Monday 7 May	Tuesday 8 May	Wednesday 9 May	Thursday 10 May
8:00		Registration 14:00–17:30	Registration 8:00–17:30	Registration 8:00–18:00	Registration 8:00–18:00	Registration 8:00–17:30	
9:00	Young Surveyors Conference	Young Surveyors Conference	General Assembly	12 Technical Sessions and Forums	12 Technical Sessions and Forums	12 Technical Sessions and Forums	President's Meeting
10:00	History workshop	ACCO Meeting	Coffee Break	Coffee Break & Exhibition opens	Coffee Break	Coffee Break	Coffee Break
11:00	Comms/AG/ICG	Comms/AG/ICG	General Assembly	Plenary Session	Plenary Session	Plenary Session	General Assembly
12:00	Young Surveyors Conference	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:00			General Assembly	12 Technical Sessions and Forums	12 Technical Sessions and Forums	12 Technical Sessions and Forums	General Assembly and Closing Ceremony
14:00	History workshop	ACCO Meeting	President's Coffee Coffee Break	Coffee Break	Coffee Break	Coffee Break & Exhibition closes	Farewell Reception
15:00	Comms/AG/ICG	Comms/AG/ICG	Commission Annual Meetings	12 Technical Sessions and Forums	12 Technical Sessions and Forums	12 Technical Sessions and Forums	
16:00	Young Surveyors Conference	Young Surveyors Conference		Opening Ceremony and concert 19:30–22:30	12 Technical Sessions and Forums	12 Technical Sessions and Forums	
17:00							
18:00							
19:00							
20:00		Acco Dinner	Commission Dinners / Free		Foundation Dinner and concert 20:00–23:00	Conference Dinner 20:00–24:00	
21:00							

**Rooms for the Commission Annual Meetings:**  
**Sunday 6 May:**  
 Comm 1 Pisa  
 Comm 2 Malta  
 Comm 3 Rodi  
 Comm 4 Raffaello  
 Comm 5 S. Giovanni  
 Comm 6 S. Giorgio  
 Comm 7 Caravaggio  
 Comm 8 S. Stefano  
 Comm 9 S. Marco  
 Comm 10 Bernini

**Technical Tours:**  
**TT 1 – Land Agency – Office dell’Agenzia del Territorio**  
 – Monday 7 May, 9:00–12:00  
**TT 2 – Land Agency – Office dell’Agenzia del Territorio**  
 – Wednesday 9 May, 9:00–12:00  
**TT 3 – Geoweb**  
 – Tuesday 8 May, 13:30–17:00  
**TT 4 – Geoweb**  
 – Wednesday 9 May, 9:00–12:00  
**TT 5 – FAO – Disaster Risk Management and Land Tenure**  
 – Tuesday 8 May, 13:30–18:30

**FIG and CNGeGL Offices:**  
 Registration (Level –1)  
**FIG President:**  
 Roma (Level 0)  
**CNGeGL President:**  
 Tevere (Level 0)  
**Speakers Preparation Room:**  
 SR (Level –1)  
**Meeting rooms:**  
 MR1, MR2 and S.Stefano (Level –1)  
**Conference Doctor:** DR (Level –1)

**First FIG Young Surveyors Conference 4–5 May:**  
 Cassa Italiana di Previdenza e Assistenza Geometri,  
 4, Lungo Tevere Arnaldo Da Brescia  
**FIG Commission 5/AG/ICG Workshop 4–5 May:**  
 Cassa Italiana di Previdenza e Assistenza Geometri,  
 4, Lungo Tevere Arnaldo Da Brescia  
**History Workshop 4 May:**  
 Fondazione dei Geometri Italiani, Via Cavour 179/A

## Technical Tours

The organizers have selected following technical tours to give the participants an opportunity to get familiar with the Italian surveying and its disciplines. Please book your tour at the same time when you register to the conference.

### TT1 and TT2 – Land Agency – Office dell'Agencia del Territorio

**Time: TT1 Monday 9:00–12:00 and**

**TT2 Wednesday 9:00–12:00**

**Number of participants: 25**

**Price: 30 €**

During the visit participants, divided into groups, will have the opportunity to see how the Italian Land Registry works and get familiar with its updating procedures.

### TT3 and TT4 – Geoweb

**Time: TT3 Tuesday 13:30–17:00 and**

**TT4 Wednesday 9:00–12:00**

**Number of participants: 25–30**

**Price: 30 €**

Geoweb S.p.A. was established thanks to an initiative jointly undertaken by the Consiglio Nazionale Geometri and Sogei S.p.A.

GEOWEB S.p.A. was created by joint initiative of the Consiglio Nazionale Geometri and Sogei S.p.A. to develop and divulgate a wide range of Web services dedicated to professional surveyors. The website [www.geoweb.it](http://www.geoweb.it) is a secure network that has been developed to allow Geoweb's users to access the main services of the Agenzia del Territorio (cadastral survey, land map sheet, mortgage registry consultations, etc) and other public institutions directly from the office at any time. Of great importance are the Docfa and Pregeo services that allow the computerized procedure of submission of the updating to the urban cadastral registry. (Docfa) and the computerized procedure of submission of the updating to the rural cadastral maps.(PREGEO) including the land map sheet downloading. Through Geoweb the surveyor is able to submit to the urban and rural cadastres updated data in real time to the public administration's databases with fast and simple procedures.

Geoweb takes care also of the Surveyor's professional education with the geo-learning service, and helps the surveyor with Geo-Sit service that overlap the map of the territory on the aerial photos of the land. Also available is the electronic mailbox dedicated to our users and many links to websites of interest for the category of the Professional Surveyors. Geoweb is an instrument to simplify the surveyor professional activities and the main needs of the surveying profession and to ease the relationship with the public administration.



Technical tour to Geoweb S.p.A.

### TT5 – FAO – Disaster Risk Management and Land Tenure

**Time: Tuesday 13:30–18:30**

**Venue: FAO HQ meeting room**

**Number of participants: 50**

**Price: 30 €**

Joint FAO/FIG Seminar at the FAO Headquarters organized in cooperation with FAO's Emergencies Division (TCE) including with FAO selected invitees as presenters of Voluntary Guidelines related experiences within the framework of the Working Week program at FAO HQ meeting room addressing Disaster Risk Management and Land Tenure.



## 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. The first grants were given in 2002.

In 2011 the FIG Foundation decided to give up four Young Surveyor Conference Fellowships for young professionals to attend and participate in the 1<sup>st</sup> FIG Young Surveyors Conference in Rome. These grants were given to Luther Matontu, Tanzania, Ronald Ssengendo, Uganda, Aliona Scutelnic, Moldova and Rizqi Abdulharis, Indonesia.

The Board of Directors for 2011 was as follows: John Hohol, President of the FIG Foundation (USA), Prof. Michael Barry, (Canada), Prof. Steven Frank, (USA), Prof. Chryssy Potsiou (Greece) and Prof. Paul van der Molen (Netherlands). The Foundation is also proud to acknowledge Trimble Navigation as an FIG Foundation Charter Partner.

#### The FIG Foundation – 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 25,000 €
  - gold plaque 10,000 €
  - silver plaque 5,000 €
  - bronze plaque 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.

## Social Tours and Sightseeing

The organizers recommend following social tours to experience Rome and its history and surroundings. All these tours shall be booked through Triumph. Check opportunities by Triumph at the Rome Cavalieri.

### Ancient Rome

**Departure: Tuesday 8 May / Thursday 10 May at 14:45  
from via di San Gregorio, 30**

**Duration: 3 hours**

**Price: 44 € (VAT 21% + credit card commissions  
included)**

**Language: English**

The tour starts with the visit of the Colosseum, Rome's greatest amphitheatre built by the Emperor Vespasian in 72 A.C. The Palatine hill, most important of the seven hills where Rome was founded and where the imperial palaces were built with a surface of 80,000 sqm. The Roman Forum was the political, military and social centre of the whole Roman Empire. The tour continues with the visit of Basilica Emilia, the Arch of Titus and the holy road. The Capitol hill is the religious centre of ancient Rome. Finally, Piazza Venezia, Rome topographical Centre with "The Vittoriano" monument dedicated to the King Vittorio Emanuele II in 1911.

### Vatican Museums

**Departure: Monday 7 May / Wednesday 9 May at 7:45  
from via Crescenzo, 86 (in front of Monte dei Paschi  
di Siena)**

**Duration: 3 hours**

**Price: 51 € (VAT 21% + credit card commissions  
included)**

**Language: English**

This museum represents the largest art collection in Europe with over 65,000 masterpieces. The Candelabra Gallery with frescos and statues. The Tapestry Gallery dating back to the XVI and XVII century. The Historical Maps, work of Ignazio Danti, decorated under the pontificate of Gregory XIII (1572–1585) and restored by Urban VIII (1623–1644). The Sistine Chapel built in XV century by Pope Sixtus and adorned by Michelangelo, Botticelli, Perugino, and Ghirlandaio. The tour ends at Bernini's Royal Staircase of the XVI century.

### Roma: the power of the Popes

**Departure: Daily at 8:30**

**Duration: 3 hours**

**Price: 36 € (VAT 21% + credit card commissions  
included)**

**Language: English**

The tour initiates at the Esquilino Square, continuing with the visit of the Trevi Fountain, it was designed by Nicolas

# PIANTE DI ROMA

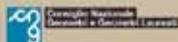
dal rinascimento ai catasti

a cura di Mario Bevilacqua e Marcello Fagiolo

**A book of 480 pages, with hundreds of photos in color and black and white.**

Artemide Edizioni, Roma

The work is published with the support of the National Council of Surveyors and Graduate Surveyors, continuing the positive relationship started some time between the Center of Studies on Culture and the Image of Rome, the culture and surveyors. A considerable number of volumes will be delivered to some 400 international members from more than one hundred countries around the world, who will present papers at the FIG Working Week in Rome, 6 to 10 May 2012. The theme of the week's work, is well linked to the study of historical maps of Rome between '500 and '900. In the research are condensed exciting phases for our category that, even if in a difficult scientific and technology contest considering the rapid and constant change, has been able to address and resolve the challenges, consolidating and enhancing its role so to empathize professional, technical reference for the management of the city and territory. A role that, in a moment of global change and overcome traditional systems, the surveyor has the commitment and ability to maintain through the constant updating and full use of modern information technology. The volume represents a valuable contribution to deepening the past and to understand the genesis of current knowledge and incredible possibilities of precise knowledge and monitoring of the area, of its virtual "navigability" made possible by satellite systems and telematics that only a few decades ago were unimaginable.



## PROFESSIONAL WOMEN

Development of Advanced Economy

Cavalieri 4 Room / May 9th, 2012 h.14,00

Cavalieri, Waldorf Astoria Hotels / Via A. Cadololo, 101 - Rome, Italy



Womenomics, is a term introduced by Kathy Matsui, a strategist for Goldman Sachs, and drawn on by "The Economist". It defines the viewpoint that calls for a greater integration of women into the economy based not only on principles of equity, but also for reasons of economic efficiency.

H. 14,00

### GREETINGS OF THE AUTHORITIES

*Fausto Savoldi*, President of Consiglio Nazionale Geometri e Geometri Laureati / *Fausto Amadasi*, President of Cassa Previdenza Geometri  
*CheeHai Teo*, FIG President

**MODERATOR** Italian television journalist (RAI)

### INVITED SPEAKERS

Domestic and international public figures of self-employment, social organizations, and ethics.





## Young Surveyors Network

The FIG Young Surveyors Network is one of the two networks established under FIG. The idea to form such a Network has been based on the need to increase the number of young professionals participating at FIG events as well as to promote FIG as a global network for surveyors.

The vision to integrate the youth of the profession within FIG comes out of 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. The group has good connections with different international, regional and local organizations.

Events are organized by the YSN throughout this FIG Working Week. Make sure to:

- Pick up your copy of the FIG YSN Newsletter
- Attend the YSN meeting (Monday 7 May 16:00–17:30 in S. Marco room at the Rome Cavalieri)
- Attend speed mentoring, held each afternoon during the coffee break in the exhibition area (meet at the Trimble stand).

There will be ad hoc evening events and opportunities throughout the Working Week – make sure to follow us on Facebook and Twitter (@FIG\_Young; "FIG Young Surveyors")!



The Consiglio Nazionale Geometri e Geometri Laureati has granted from the Italian Post Office a special cancellation with the press of a postal stamp and a postcard dedicated to the FIG Working Week 2012.

This is an important condition of publication, also because the stamp will represent an occasion of spread of the event among tens of thousands of collectors of stamps that will have on the relative market a significant value. Each delegate will find a postcard in the conference bag. A desk of "Poste Italiane" will be present in Rome Cavalieri Hotel for the special date franked.

## Corporate Members

Salvi in the XVIII c., the very last example of the magnificent Baroque art. Agrippa's Pantheon, the temple dedicated to the twelve planetary deities, became with time a Catholic Church thence. The Navona Square, the Domitian's Stadium built in 92 A.D., was embellished by Bernini's Fountain of the Four Rivers and by the scenic façade of the Church of Saint Agnes, by Borromini. The Saint Peter's Basilica, was rebuilt in the XVI and XVII Centuries, the interior is decorated with thousands of gilt tesserae, prized marbles, Byzantine and baroque mosaics, the renowned Pieta by Michelangelo and the Saint Peter's Tomb. The tour ends at the Saint Peter's Square.

### Tivoli: Hadrian's Villa & Villa d'Este

**Departure: Tuesday 8 May / Thursday 10 May at 8:30**

**Duration: 4 hours**

**Price: 60 € (VAT 21% + credit card commissions included)**

**Language: English**

Leaving from the Esquilino Square and passing through Castro Pretorio and the ancient Walls dating from the III Century A.D. the tour arrives at Tivoli. Visit of Hadrian's Villa, the most beautiful imperial villa, projected and realized by the Emperor Hadrian in the early II Century A.D. in a unique setting of gardens and sheets of water. Continuation to Villa d'Este, enchanting villa of the Renaissance rich in fountains, jeux d'eau, waterfalls and incomparable Italian garden.

### Capri

**Departure: Friday 11 May 7:30, 1 day – lunch included**

**Price: 131 € (VAT 21% + credit card commissions included)**

**Language: English**

The tour will cross the city and take the Autostrada del Sole (major Italian highway). The region of Ciociaria will be passed with a view (from the Autostrada del Sole) of the Abbey of Montecassino. Upon arrival in Naples, embark and departure for the Island of Capri. For a panoramic tour of the Island ending at Anacapri, characteristic village situated at the foot of Mt. Solaro. After lunch in a local restaurant, free time to explore and go shopping. At approximately 3:30 p.m. meet at the harbor. Departure for Rome at approx. 5:30 p.m.

### Platinum level

 Bentley	Bentley Systems, <a href="http://www.bentley.com">www.bentley.com</a>
 esri	Environmental Systems Research Institute, Inc. (ESRI), <a href="http://www.esri.com">www.esri.com</a>
 Leica Geosystems	Leica Geosystems AG, <a href="http://www.leica.com">www.leica.com</a>
 Trimble	Trimble Navigation Ltd, <a href="http://www.trimble.com">www.trimble.com</a>

### Silver level

 COWI	COWI A/S, <a href="http://www.cowi.dk">www.cowi.dk</a>
 FARO	FARO Europe GmbH & Co. KG, <a href="http://www.faro.com">www.faro.com</a>
 Geoweb	Geoweb S. p. A <a href="http://www.geoweb.it">www.geoweb.it</a>
 Grontmij	Grontmij nv, <a href="http://www.grontmij.com">www.grontmij.com</a>
 Hi-Target GNSS	Hi-Target Survey Instruments Co, Ltd <a href="http://www.zhdgps.com/cn/index.html">www.zhdgps.com/cn/index.html</a>
 MERIDIAN+	Meridian+, <a href="http://www.agpmeridian.com">www.agpmeridian.com</a>

### Bronze level

 AED SICAD	AED-SICAD Aktiengesellschaft, <a href="http://www.aed-sicad.com">www.aed-sicad.com</a>
 GIM Geomares	GIM International – Geomares Publishing, <a href="http://www.gim-international.com">www.gim-international.com</a>
 IGN	IGN France International, <a href="http://www.ignfi.fr">www.ignfi.fr</a>
 KQ GEO Technologies	KQ Geo Technologies Co, <a href="http://www.kanq.com.cn">www.kanq.com.cn</a>
 Mason	Mason Land Surveys Limited, <a href="http://www.mason.co.uk">www.mason.co.uk</a>
 SEPRET	SEPRET (Société des Etudes de Projets et Réalisation des Travaux, S.A.R.L.), <a href="http://www.sepret.com">www.sepret.com</a>

### Basic level

 DERINSU	Derinsu Underwater Engineering & Consulting, <a href="http://www.derinsu.com">www.derinsu.com</a>
 Global Survey Qatar	Global Survey Qatar
 GEOexpert	GEOEXPERT, <a href="http://www.geoexpert.asso.fr">www.geoexpert.asso.fr</a>
 GEO Informatics	GeoInformatics, <a href="http://www.geoinformatics.com">www.geoinformatics.com</a>
 GEOTRILHO	Geotrilho Topografia Engenharia e Projecto lda, <a href="http://www.geotrilho.pt">www.geotrilho.pt</a>
 THOMSON REUTERS	Thomson Reuters, <a href="http://grm.thomsonreuters.com">http://grm.thomsonreuters.com</a>

### REGIONAL LEVEL

 CAMEROON ENGINEERING S.A.	Cameroon Engineering S.A.
 Concord Surveying Works Co.	Concord Surveying Works Co. <a href="http://concordsurveying.com/">http://concordsurveying.com/</a>
 Coordinates	Coordinates Magazine, <a href="http://www.mycoordinates.org">www.mycoordinates.org</a>
 GEO:connexion	GEO:connexion Ltd, <a href="http://www.geoconnexion.com">www.geoconnexion.com</a>
 Institut Cartogràfic de Catalunya	Institut Cartogràfic de Catalunya, <a href="http://www.icc.es">www.icc.es</a>
 ORBITS ENGINEERING FIRM	Orbits Engineering Firm <a href="http://www.orbitseng.com/">www.orbitseng.com/</a>
 OTHER SPONSORSHIP	<b>OTHER SPONSORSHIP:</b> Den danske Landinspektørforening (DdL), <a href="http://ida.dk/sites/ddl/">http://ida.dk/sites/ddl/</a>



Pantheon.



Campo dei Fiori.



## Information to Participants

**Leonardo da Vinci Airport (Fiumicino)** is 26 km from Rome and the quickest way to reach central Rome is the shuttle train, the **Leonardo Express**, which leaves every 30 minutes for the main station, Stazione Termini. The journey lasts about half an hour and costs 14 €.

The Comune di Roma (Rome Council) has set up a fixed tariff for taxis from Fiumicino and Ciampino Airports to inside the city walls. The tariff is from 40 € to 60 € from Fiumicino and 30 € from Ciampino (maximum 4 people with baggage included in the tariff). The number to call for a taxi is +39 06 3570.

The main stations in Rome are **Stazione Termini** (Piazza dei Cinquecento) and **Stazione Tiburtina** (Piazza della Stazione Tiburtina). Both stations are connected to the network by the underground and many buses in all directions leave from outside the stations. For information on times and ticket prices we advise you to connect the railway company site Ferrovie dello Stato, where after registering you can also buy tickets on-line and pick them up on the train itself.

Across the road from Tiburtina Station, there is a **coach station** with departures for other Italian cities and abroad. The ticket offices for this service are in the shops along the side of the square.

The number to call for a taxi is +39 06 3570. Taxi drivers do not have to be tipped even if a tip is welcome.

**Public transport** from and to **Rome Cavalieri**: There are number of buses that stop in Via Medaglie d'Oro (10 minutes by walk from the hotel) 913, 991 (stops at Via Giulio Cesare – close to San Pietro) or 907 stops at metro A (Cipro) from there various stops to San Pietro, Spagna etc.

For those staying at the Rome Cavalieri there is **hotel shuttle service** with following time schedule. Departures from the Hotel: 8:30 (not on Sundays), 9:30, 10:30, 11:30, 12:30 (not on Sundays), 15:30, 16:30, 17:30, 18:30 and 19:30. Departures from Piazza Barberini: 9:00 (not on Sundays), 10:00, 11:00, 12:00, 13:00 (not on Sundays), 16:00, 17:00, 18:00, 19:00 and 20:00. The shuttle service takes you from the hotel to Piazza Barberini with a short intermediate stop at Via Veneto.

### Work hours and holidays

Banks are open weekdays from 8:30 to 13:00 and in the afternoon until about 4 p.m. ATMs (Automatic Teller Machines) are open 24 hours and are located throughout the city and surrounding areas. Almost all ATMs have a language key to enable you to read the instructions in English.

Shops and commercial centers are normally open Monday through Saturday from 10:00 to 19:30, but closed all day on Sunday. However most stores in shopping malls and

crowded streets are open seven days a week, including lunch breaks. You can find restaurants or cafes open virtually at any time of the day or night.

### Climate and clothing

Weather in May in Rome is pleasant and expected to be sunny. The temperature is around 18 °C. It is advised to get some light dresses for day time and some jackets for the night.

### Currency

Italy is a member of the Eurozone. ATMs (known in Italy as “bancomat”) are widely available in Rome and all types of credit cards are accepted. Remember that every time you withdraw cash, there will be a transaction surcharge. Find out from your bank the exact amount. Most shops and restaurants have credit card services.

### Tipping

Tipping in the more expensive restaurants is expected, with around 5 to 10 percent being the usual amount. Taxi drivers do not have to be tipped even if a tip is welcome.

### Time zone

Italian time is one hour ahead of Greenwich Mean Time.

### Electricity

In Italy electricity is 220 volts, frequency 50 Hz, plugs type: C, F & L; Type L plugs/outlets may have different pin spacing.

### VAT

Value-added tax is nearly always included in quoted prices. If you are a non-EU resident and you spend more than €155 on a purchase, you can claim a refund when you leave the EU. The refund only applies to purchases from affiliated retail outlets that display a ‘Tax Free for Tourists’ sign.

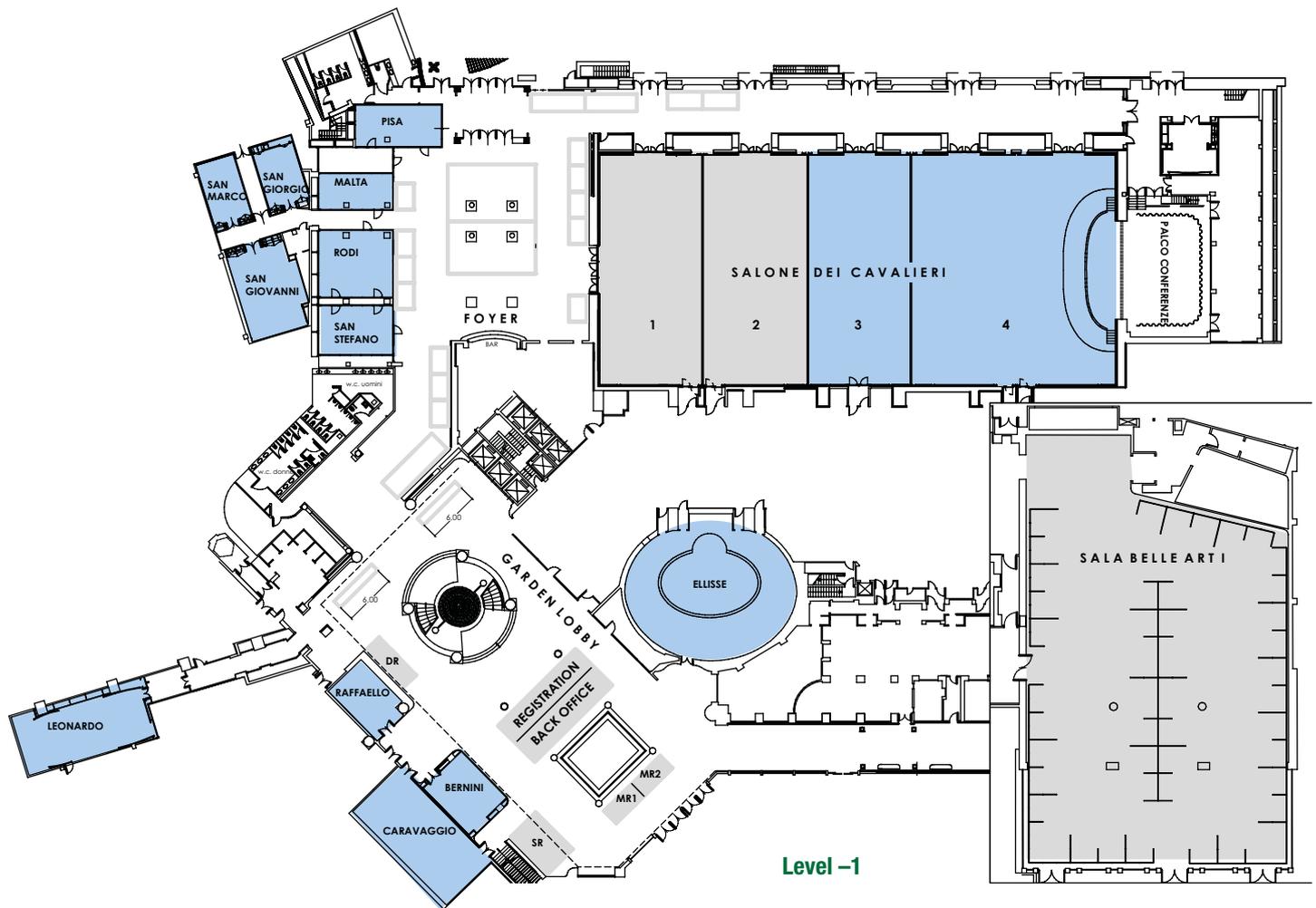
### Smoking regulations

Smoking is not permitted indoors in public buildings and other places open to the public. This also includes restaurants, pubs and clubs. In some places there are designated smoking zones.



Castel Sant'Angelo.

## Venue Floor Plan – Rome Cavalieri



### Registration, FIG and CNGeGL offices:

- Level -1

### Opening Ceremony:

- Giuseppe Sinopoli Hall, Parco della Musica

### FIG General Assembly & Farewell Reception &

### Closing Ceremony:

- Cavalieri 3 & 4

### Plenary Sessions:

- Cavalieri 4 (Level -1)

### Technical Sessions & Commission Meetings:

- Cavalieri 4, Cavalieri 3, Caravaggio, S. Giovanni, Rodi, Malta, Bernini, Pisa, S. Giorgio, Raffaello, Leonardo, Ellisse, S. Marco (Level -1)

### Meeting rooms:

- Commission meeting rooms: MR1 and MR2 (Level -1)
- Council meeting room: S. Stefano (Level -1)

### Speakers Preparation Room:

- SR (Level -1)

### Conference Doctor's Room:

- DR (Level -1)

### Exhibition:

- Level -1

### FIG President:

- Roma (Level 0)

### CNGeGL President:

- Tevere (Level 0)



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Web site: <http://www.cng.it>

### **Working Week web site**

[www.fig.net/fig2012](http://www.fig.net/fig2012)

### **Conference proceedings**

[www.fig.net/pub/fig2012](http://www.fig.net/pub/fig2012)

### **8<sup>th</sup> FIG Regional Conference**

26–29 November 2012  
Montevideo, Uruguay  
[www.fig.net/uruguay](http://www.fig.net/uruguay)

### **FIG Working Week 2013**

6–10 May 2013  
Abuja, Nigeria  
[www.fig.net/fig2013](http://www.fig.net/fig2013)

### **25<sup>th</sup> FIG Congress**

16–21 June 2014  
Kuala Lumpur, Malaysia  
[www.fig.net/fig2014](http://www.fig.net/fig2014)

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