

4th FIG Regional Conference
**Capacity Building for
Sustainable Development**

Havana, Cuba, September 26–29, 2005

First invitation and call for papers

ORGANISED BY



INTERNATIONAL
FEDERATION OF
SURVEYORS
(FIG)



NATIONAL UNION OF
ARCHITECTS AND ENGINEERS OF
CONSTRUCTION
(UNAICC)

INVITATION

The focus of the 4th FIG Regional Conference will be on capacity building and its role in promoting sustainable development. This includes sustainability in promoting social and technological development and how this can be achieved by surveying and disciplines related to surveying, topography and geoinformatics. Sub-themes of the conference include the history and preservation of the hydrographic and geodetic heritage; development of physical and virtual infrastructures; quality standards; challenges and opportunities for project management in the future; welfare and security of life in legal and social aspects; and development of financing concepts, transfer of technology and professional skills. These skills include both technological disciplines of the surveying profession and land use and land management policies as well as development of measurement technologies and geoinformatics.

Other targets of this conference are to create a debate and allow the exchange of ideas about the state of art and the use of advanced technologies that can develop the surveying profession. Finally is the promotion of co-operation in technology within and between the different disciplines of the surveying profession among the objectives of the first FIG regional conference in this region.

The 4th FIG Regional Conference is the first FIG Regional Conference in Latin America and the Caribbean. We hope that the conference will build bridges between professionals in the region and at the international level and in addition create understanding of the requirements in surveying and geoinformatics community worldwide.

The conference is organised by the *International Federation of Surveyors* (FIG) and the *National Union of Architects and Engineers of Construction* (UNAICC). As has been the case with all previous FIG regional conferences

the conference in Havana will be organized in co-operation with other international and regional organizations like the United Nations and its agencies as well as international spatial information societies. The regional partners will include associations in Latin America and the Caribbean that are focused on land issues and spatial information as e.g. Sociedad Latinoamericana de Percepción Remota y Sistemas de Información Espacial (SELPER). The conference is open to participants from all over the world however with the main focus on Latin America and the Caribbean. In all previous FIG regional conferences there have been participants from 30 to 50 countries representing all continents.

FIG is an international, non-governmental organisation whose purpose is to support international collaboration for the progress of surveying in all fields and applications. FIG is the only international association representing all surveying disciplines. FIG has members in more than 110 countries and in the member associations there are more than 230,000 individual members. In addition to 94 member associations FIG has 80 academic members, 15 affiliates and 14 correspondents. More information: <http://www.fig.net>.

UNAICC is the National Union of Architects and Engineers of Construction representing all engineers and architects in Cuba including surveyors. UNAICC is also the Cuban member association in FIG.

This conference will, in particular, provide a unique opportunity to discuss the problems and achievements of Latin American countries in the rapidly changing world as well as to learn about the special conditions in Cuba.

We look forward to meeting you in Havana.

Prof. **Holger Magel**
President

International Federation of Surveyors, FIG

Ing. **Julio Salgado Avila**
President

National Union of Architects
and Engineers of Construction, UNAICC

ORGANIZING COMMITTEE

- Chairperson: Ing. **Elena Téllez Girón**
- Vice Chair: Ing. **Yalex Guerra Castellini**
- Conference Coordinator: Ing. **Pedro Luís García Pérez**
- Ing. **José Cabrera García**
- Ing. **Cecilia Santos Pérez**
- Lic. **Maritza Barceló González**
- Lic. **Martha Hechevarría Castellanos**

- Ing. **Norelve Bombino Duardo**
- Dr. Ing. **Eloy Pérez García**
- Mr. **Markku Villikka**, FIG Office

The organising committee will be assisted by sub-committees (programme committee, finance committee and hospitality committee).

STEERING COMMITTEE

- Prof. Dr.-Ing. **Holger Magel**, President of FIG, Chair
- Ing. **Julio Salgado Avila**, President of UNAICC, Vice Chair

- Ing. **Elena Téllez Girón**, UNAICC
- **Markku Villikka**, FIG

BENEFICIARIES

The conference is expected to attract professionals, academics, scientists, researchers, policy makers and admin-

istrators from all surveying disciplines and related professionals.

THEME AND TOPICS

The theme of the conference is *Capacity Building for Sustainable Development* which includes the following **policy issues**: History and preservation of the hydrographic and geodesic heritage; Physical and virtual infrastructures – tools and procedures; Quality standards; Future projects – challenges and opportunities; Legal and social welfare and security in life – contributions of surveyors; and Funding, transfer of technology and professional development.

All ten FIG technical commissions will attend the conference and papers are therefore requested to all the following topics: Professional Standards and Practice; Professional Education; Spatial Information Management; Hydrography; Positioning and Measurement; Engineering Surveys; Cadastre & Land Management; Spatial Planning & Development; Valuation and the Management of Real Estate; and Construction Economics and Management.

Abstracts are requested from following **specific topics**:
General practice and professional development

- Professional qualifications and postgraduate professional development
- Professional standards and standards in measurements and geodetic networks, cadastre, GIS and SDIs
- Development of strategies in surveying
- Development of joint ventures in surveying

Education

- Education methodologies and educational trends
- CPD and training
- Exchange of students and professionals

Spatial information management, SDIs and digital cartography

- Spatial information management
- Practical applications and experiences of the use of GIS
- Technological innovations for data collection and management
- Web-based solutions

- GIS for infrastructure networks
- 3D GIS

Hydrography and marine surveying

- Modern technologies in hydrography
- Use of new technologies in nautical charts
- Coastal zone management

Measurements, geodesy and remote sensing

- Geodetic networks
- New surveying technologies
- Reference frame
- Navigation systems
- Digital photogrammetry and 3D models
- New technologies for developing and updating of maps
- Monitoring of natural resources, disasters and environment
- Visualisation of 3D data

Cadastre and land management

- Urban and rural cadastre
- Modern cadastre and land registers
- Land use and rural development
- Valuation and real estate management
- Capacity building in land administration

Urban planning and housing processes

- Informal housing
- Small Island Development Planning (SIDS)
- Marine spatial planning
- Housing constructions / affordability

Environmental development

- Use and management of land resources
- Risk and disaster management – studies of potential disaster zones
- Environmental policies, strategies and activities

Each conference day will be opened by a plenary session with contributions from prominent keynote speakers followed by 3 parallel technical sessions.

TENTATIVE PROGRAMME

	Sunday 25 September	Monday 26 September	Tuesday 27 September	Wednesday 28 September	Thursday 29 September
08.30–09.00		Registration	Registration	Registration	Technical tour
09.00–10.00	FIG ACCO meeting	Opening ceremony	Plenary session Exhibition	Plenary session Exhibition	Full-day technical tour to Pinar del Rio
10.30–12.00	FIG ACCO meeting	Plenary session Exhibition	Technical sessions and workshops (3 parallel sessions) Exhibition	Technical sessions and workshops (3 parallel sessions) Exhibition	
13.30–15.00	Registration FIG ACCO meeting	Technical sessions and workshops (3 parallel sessions) Exhibition	Technical sessions and workshops (3 parallel sessions) Exhibition	Technical sessions and workshops (3 parallel sessions)	
15.30–17.00	Registration FIG ACCO meeting	Technical sessions and workshops (3 parallel sessions) Exhibition	Technical sessions and workshops (3 parallel sessions) Exhibition	Technical sessions and workshops (3 parallel sessions)	
17.00–18.00				Closing ceremony incl. conference statement and recommendations	Arrival to hotel by 18:00
19.00–		Welcome Reception	Cuban Evening	Gala dinner	

In addition several FIG Commissions will have their administrative meetings during the conference.

CALL FOR PAPERS

Abstracts are called on any of the conference themes and topics. Abstracts not exceeding 2 pages including short CV and contact information should be submitted to the International Federation of Surveyors, address: FIG Office, Lindevangs Alle 4, DK-2000 Frederiksberg, Denmark, email: fig@fig.net, tel. +45 3886 1081 and fax +45 3886 0252. Abstracts are requested to be submitted in electronic format, if possible in MS-Word. The deadline for abstracts is **30 May 2005**. The authors will be informed by **20 June 2005** of acceptance of their paper. The deadline for full papers (not exceeding 15 pages) is **31 July 2005**. Detailed guidelines on submitting the papers are available on FIG web site (www.fig.net/havana). The programme including the names of speakers and titles of their papers will

be available on the FIG web site **20 June 2005**. All papers will be published and proceedings (CD-ROM) will be distributed during the conference. All papers will be posted on the FIG web site (www.fig.net). When submitting the paper the author(s) give(s) FIG the right to publish the paper permanently on the FIG web site and to include it in the FIG Surveying Reference Library. Papers shall be submitted in English or Spanish with a one-page summary in English and in one other language (optional). The number of abstracts will be limited to max. two per author.

Further information is available from the International Federation of Surveyors (FIG), email: fig@fig.net or from the UNAICC, email: internacionales@unaicc.co.cu.

VENUE

The Conference will be held at the Tryp Habana Libre, 23 Calle L E 23 Y 25, Vedado – Ciudad de la Habana, CUBA, tel. +53 7 8346100, fax +53 7 8346365, email: tryp.habana.libre@solmelia.com. The five-star Tryp Habana Libre is located in La Habana downtown, right on the famous corner of 23rd and L, where the “La Rampa”

district begins. The district is home of the most important ministries and the University of La Habana, and well-known for its animated nightlife. The city mole is just 500 m. away, and the historical city center, declared a world cultural heritage site in 1982, is close by.

LANGUAGE

The conference will be held in English and Spanish.

REGISTRATION, FEES AND IMPORTANT DATES

Registration fees are as follows:

Registration fees	Before 30 June 2005	After 30 June 2005
<i>Conference delegates (international)</i>		
– Delegates	€ 275	€ 325
– Daily participants	€ 150	€ 200
– Students	€ 50	€ 75
– Accompanying persons	€ 50	€ 75
<i>Conference delegates (local)</i>		
– Delegates	€ 50	€ 75
<i>Technical tour</i>	€ 50	€ 50
<i>Social programme</i>		
– Cuban evening	€ 60	€ 60
– Gala dinner	€ 50	€ 50

Registration fee includes conference attendance, proceedings (CD-ROM), lunches and 2 coffee breaks on September 26–28 and a welcome reception September 26. Cuban evening, Gala dinner, additional social programme and the technical tour on 29 September will be charged separately.

Registration fee for the accompanying persons includes participation to the opening ceremony, coffee/tea after the opening session, welcome reception and opportunity to register for social events and tours.

Speakers from developing countries are requested to contact the conference organisers for support to participate.

Registration is possible on-line on the conference web site (www.fig.net/havana) or by sending the registration form to FIG office. Local participants shall register to UNAICC.

In the case of cancellations after registration the following policy on refunds will be used:

- By 30 June 2005 – full refund minus administration fee of € 50
- After 1 July to 1 September 2005 – 50 % of all payments
- After 1 September 2005 – No refund.

Payments shall be made by credit card at the time of registration or by a bank transfer to the FIG bank account.

ACCOMMODATION

Havana offers good accommodation to very reasonable prices in the five-star category as well as in 3–4-star categories. The conference venue is Habana Libre Hotel, which is a five-star hotel in central Havana. The room

rates for Habana Libre are: single room 92 USD and double room 114 USD (including breakfast, service and airport transfers).

EXHIBITION

An exhibition of surveying and technology is planned. This will include up to date displays from manufacturers with their current range of instruments and software. Any company or organisation requiring further information

about the possibility of having a display should contact the FIG at FIG@FIG.net.

TECHNICAL TOURS

One day technical tour will be organised to Pinar del Rio on September 29, 2005. The detailed programme will be published on the conference web site.

SOCIAL PROGRAMME

The social programme includes:

- Welcome reception
- Cuban evening
- Gala dinner

To see details, please visit the conference web site.

SIGHTSEEING AND POST-CONFERENCE TOURS

The organising committee has selected Cubatur as the conference tour agency. The post-conference tour is offered to

Varadero. For further information please visit the conference web site or contact the FIG office.

ABOUT CUBA AND HAVANA

The Republic of Cuba is an archipelago constituted by the island of Cuba, the greatest in superficial extension, the island of Youth and approximately 1,600 keys and small islands. It is formed by four insular groups: Los Colorados, Sabana Camaguey (Jardines del Rey), Jardines de la Reina and Los Canarreos. It has a total area of 110,922 km² characterized by its large and narrow configuration. Cuba is situated at the entrance of the Gulf of Mexico and surrounded by the waters of the Atlantic Ocean and the Caribbean Sea.

The climate of the archipelago is wet subtropical with predominance of warm weather and two well defined seasons in the year, one dry (from November till April) and the other rainy (from May till September). The value of the yearly medium weather is 25°C with a relative humidity of 78% as a yearly average and according to the weather registers, the warmest month is July, and the coldest is January.

In great part of its territory, Cuba also has famous natural and architectonic values that have allowed it to win distinctions such as the World Heritage Site given by the UNESCO to: Old Havana, Trinidad, the Valley of the Sugar Factories and the Fortress of San Pedro de la Roca del Morro in the city of Santiago de Cuba.

The Cuban population has its roots in the Spanish and African cultures due to the conquest, but also the Chinese immigration has contributed to its formation. This multi-

cultural blend has given way to the charm of the special mixture of habits, cultures and religions. Cuba has now 11 million inhabitants.

The economy is ruled by the state, although there are joint ventures of mutual interest with foreign investors. The principal economic sectors are: tourism, sugar agro-industry, extraction of nickel plus cobalt, cigar production, fishing and citric.

The Cuban music has its roots in the Spanish and African traditions and it has gained international reputation in the recent years. The summit figure of the Cuban literature is Jose Marti, who with his pen incursioned brilliantly in the poetry and prose, leaving a rich heritage to the generations that preceded him.

The Cuban history is characterized by the defense of the identity and the national values. Since the beginning of the Spanish colonization in 1492 many incidents and demonstration of rebelliousness occurred within the population that got worse by the reigning colonial dominion. With the course of time a long independency fight took place that ended with the glorious triumph of the revolution in January 1, 1959, when Cuba reached its true freedom, independence and sovereignty, becoming two years later the first socialist country of America. The Republic of Cuba, according to the Political-Administrative Division is divided in 14 provinces and 169 municipalities.

The capital of the Republic of Cuba is the city of

Havana that is placed in the flatness of La Habana-Matanzas, around the bay with the same name, with an area of 742 km² with altitudes between 40 to 60 m. It is the urban zone where more than 2 million inhabitants develop their creative work to the benefit of the new society and it is the most important administrative, political, cultural and scientific center in the country. All the economic activities are represented in the city and it is connected by air, earth and maritime with the rest of the country. It offers to the visitor its own charm of a cosmopolitan city and also it works as the axis of the cultural chore of the Caribbean island.

It has many buildings of different styles and epochs, charming streets and avenues and interesting monuments of historic and architectonic values. It also has places of environmental interest and buildings that are harmoniously combined with the urban contour. These include the Castle of los Tres Reyes del Morro, known as the Morro Castle, whose image is used as the symbol of the identity of the city.

PRACTICAL INFORMATION

How to come to Cuba. The principal way of access is through any of the 11 international airports from around thirty countries, basically from Europe and America, (e.g. British Airway, Iberia, Air France, Mexicana de Aviacion, Lan Chile, Taca, Copa, Aeropostal, Condor, L.T.U. Lauda Air, Air Europa and Air Europe).

Immigration regulations. The visitor must have a valid passport and the corresponding visa or tourist card, except in the case of the countries with which Cuba maintains agreements of free visa. The tourist cards (individuals or for groups) could be asked in the Cuban consular representations and in the traveling agencies and airlines offices.

Custom regulations. Besides the personal things, jewels, photo or video cameras, fishing tackles as well as two bottles of liquor and twenty boxes of cigarettes are allowed duty free. When leaving the island, it is allowed to export up till 50 cigars without the presentation of documents. The import of animal or vegetal products is forbidden.

Currency. The national currency is the peso, equivalent to 100 cents. Circulate in bills of 1, 3, 5, 10, 20, 50, 100 pesos, and also coins of 1 and 3 pesos and counterfeit of 1, 2, 5 and 20 cents. Also the convertible peso circulates, with the same value as the USA dollar, but with legal course exclusively in Cuba. Unused currency can be changed at the airport at the departure.

Time. Standard time zone: GMT-5 hours and daylight saving time GMT-5 hours.

What to see in Havana. The historic center of the city, special the ensemble of squares, the palaces, the Cathedral and other buildings of great historical and architectonic value. The green belt of the capital that forms the Lenin Park, the Botanical Garden, the Metropolitan Park and the National Zoo. The complex of historic-military museums that are integrated by Castillo de los Tres Reyes del Morro (Morro Castle) the Fortress San Carlos de la Cabaña and the Museum of the Revolution. The models of the city of Havana and Old Havana. Finca Vigia, the Havana residence of Ernest Hemingway.

For post conference: Varadero, with 22 kilometers of wonderful beach and comfortable hotels make this city the principal Cuban resort, 140 km from the capital.

Reserve of the Biosphere Sierra del Rosario, 70 km. from the capital, in omnibus or cars.

CONTACTS

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Contact person: Ing. Elena Téllez Girón.

OFFICIAL CONFERENCE WEB SITE

Please visit www.fig.net/havana for up-to-date information on the conference.

