

6th FIG Regional Conference
Coastal Areas and Land Administration
– Building the Capacity

San José, Costa Rica, 12–15 November 2007

Technical Programme

Saturday, 10 November 2007

Council Meeting

Time: **Saturday, 10 November 2007 09:00-17:00**

Venue: Gardenias Salon, Hotel Ramada Herradura

- By invitation only

Sunday, 11 November 2007

ACCO Meeting

Time: **Sunday, 11 November 2007 09:00-17:00**

Venue: Gardenias Salon, Hotel Ramada Herradura

- By invitation only

Pre-Conference Seminar sponsored by TRIMBLE

This FIG seminar will demonstrate Trimble positioning technologies and show how they allow surveying businesses to manage the exchange of data between the field and the office more effectively

Time: **Sunday 11 November 2007 14:00-18:00**

Venue: Girasol Salon

Monday, 12 November 2007

Opening Ceremony

Commission: All

Time: **Monday, 12 November 2007 09:30 -10:30**

Venue: Conference Center – Salon La Paz

- Greeting by Ing **Freddy Bolaños**, Representing the Executive Director of CFIA
- Address by Ing **Juan Manuel Castro Alfaro**, President of CFIA/CIT
- Address by Prof **Stig Enemark**, FIG President
- Address by the Costa Rican Minister of Housing **Mr. Fernando Zumbado**
- FIG Fanfare
- Opening of the 6th FIG Regional Conference
- End of the Opening Ceremony

Coffee Break

Time: **Monday, 12 November 2007 10:30-11:00**

Venue: Conference Center – Vestibulo Norte

Plenary Session I – Coastal Zone Management

Time: **Monday, 12 November 2007 11:00-12:30**

Commission: All

Venue: Conference Center – Salon La Paz

Chair: Mr **Rob Mahoney** (United Kingdom)

Mr **Alexander Gonzalez** (Costa Rica):

The Handling of the Zona Marítimo Terrestre (ZMT) of Costa Rica
Geodesy, Basic Tool for its Suitable Administration (2569)

Dr **Diane Dumashie** (UK):

Land, Sea, and People: Equitable Access to Coastal Resources (2484)

Dr **Michael Sutherland** (Trinidad and Tobago):

Coastal Zone Management as Strategy for Pro-poor Land Management and
Administration (2510)

Lunch

Time: **Monday, 12 November 2007 12:30-14:00**

Venue: Vestibulo Sur

TS 01 – Coastal Zone Management

Time: **Monday, 12 November 2007 14:00-15:30**

Venue: Conference Center – Salon La Paz B Oeste (West)

Commission: 3, 4, 7, 8

Chair: Dr **Michael Sutherland** (Trinidad and Tobago)

Mr **Teo Chee Hai** (Malaysia):

Surveys for Shoreline Monitoring Programme (2402)

Mr **Christodoulos Psaltis** and Dr **Charalabos Ioannidis** (Greece):

An Algorithm for Monitoring Informal Constructions - An Application in Coastal Areas
(2441)

Ms **Ni Made Kesuma Putri** (Indonesia):

Identifying Coastal City Development Using Combination of Old Maps and High Resolution
Satellite Image, case study of Semarang, Indonesia (2432)

TS 02 – GNSS CORS Fundamentals

Time: **Monday, 12 November 2007 14:00-15:30**

Venue: Conference Center – Salon La Paz B Este (East)

Commission: 5

Chair: Dr **Rudolf Staiger** (Germany)

Dr-Ing **Volker Schwieger** (Germany):

GNSS CORS Infrastructure and General Principles (2477)

Mr **Mikael Lilje** (Sweden):

Linking GNSS, CORS and Reference Frames (2466)

Mr **David Martin** (France):

Standards and Best Practice for GNSS and CORS (2467)

Mr **Matt Higgins** (Australia):

GNSS, CORS and Positioning Infrastructure - Business and the Future (2468)

TS 03 – GIS Applications

Time: **Monday, 12 November 2007 14:00-15:30**

Venue: Conference Center – Salon La Paz C Oeste (West)

Commission: 3

Chair: Ms **Kari Strande** (Norway)

Mrs **Luz Angela Rocha** (Colombia):

Guidelines for Designing WEB Maps. An Academic Experience (2406)

Mr **Michael Edwards**, Ms **Margaret Winslow** and Dr **Reginald Blake**, (United States):

Evaluating Pine Barren Ecosystem with the Integration of Optical Remote Sensing and GIS (2394) This paper was not presented during the conference.

Coffee Break

Time: Monday, 12 November 2007 15:30-16:00

Venue: Vestibulo Norte

TS 04 – Workshop on Pro-Poor CZM – Preparation of FIG Publication

Time: **Monday, 12 November 2007 16:00-17:30**

Venue: Salon La Paz

Commission: 3, 4, 7, 8

Chair: Mr **Rob Mahoney** (United Kingdom)

TS 05 – Operational GNSS and CORS Infrastructure

Time: **Monday, 12 November 2007 16:00-17:30**

Venue: Salon La Paz C Oeste (West)

Commission: 5

Chair: Dr-Ing **Volker Schwieger** (Germany)

Ms **Sonia Maria Alves Costa**, (Brazil)

SIRGAS Operations and the Regional LOCAL CORS Network Scene (2520)

Prof **Cárdenas Contreras Andrés**, Ing **Raul Ernesto Martinez Cano** and Ing **Jorge Ivan Ramirez Sanabria** (Colombia):

Control Geodesico y Sig de un Tramo del Sistema Ferroviario de Colombia (2430)

Mr **Dave Doyle** (USA):

Improved Access to an Accurate Geodetic Reference Frame in the Caribbean/Center America Region (2470)

Dr **Neil Weston** (USA):

NGS and OPUS Activities (2471)

Mr **Neal Toso** (United States):

Overview of Various GNSS CORS Networks (2479)

TS 06 – Land Administration

Time: **Monday, 12 November 2007 16:00-17:30**

Venue: Salon La Paz C Oeste (West)

Commission: 7

Chair: Mr **Murat Meha** (Kosovo)

SESSION CANCELLED

Welcome Reception

Time: **Monday, 12 November 2007 19:00-22:00**

Commission: All

Venue: CFIA Auditorium – Bus Transfer

Dress Code: Casual

Tuesday 13 November 2007

Plenary Session II – Land Administration

Time: **Tuesday, 13 November 2007 09:00-10:30**

Commission: All

Venue: Salon La Paz

Chair: Dr **Chryssy Potsiou** (Greece)

Mr **Daniel Acuña Ortega** (Costa Rica)

From the Inscription of Planes to the Land Administration in Costa Rica a Relation between the Exercise of the Topography and the Administration of the Territory in Costa Rica (2555)

Mr **Francisco J. Proenza** (Italy)

Information Systems and Land Administration (2504)

Mr **Grenville Barnes** (USA)

Developing Resilient and Responsive Land Administration Systems in Latin America (2486)

Coffee Break

Time: **Tuesday, 13 November 2007 10:30-11:00**

Venue: Vestibulo Norte

TS 07 – World Bank Projects in Latin America

Time: **Tuesday, 13 November 2007 11:00-12:30**

Venue: Salon La Paz B

Commission: 7

Chair: Mr **Grenville Barnes** (USA)

Mr **Malcolm Childress**

World Bank Land Administration Projects in Latin America

2 more papers to be confirmed

TS 08 – Positioning and Measurement

Time: **Tuesday, 13 November 2007 11:00-12:30**

Venue: Salon La Paz C Oeste (West)

Commission: 5

Chair: Mr **Rob Sarib** (Australia)

Dr **Volker Schwieger** (Germany):

Positioning within the GSM Network (2407)

Mr **Carlos Rodriguez** (Puerto Rico):

Virtual Machines for GPS Real Time Networks (2393)

Mr **Joe Sass** (United States):
Low Cost, High Accuracy, GNSS Survey & Mapping (2426)

Dr **Ivo Milev** (Germany)
DGNS Based Multisensor Navigator for Railway State Monitoring (2523)

TS 09 – Natural Resources and Risk Management

Time: **Tuesday, 13 November 2007 11:00-12:30**

Venue: Salon La Paz B Oeste (West)

Commission: 8

Chair: Mr **Andrew Morley** (United Kingdom)

Prof **Linda L. Vélez-Rodríguez** (Puerto Rico):
Tidal Stations and Bench Marks: Tools for Spatial Information Managements (2399)

Mrs **Judith Salas-Miranda** and Mrs **Angelica Ladino-Parra** (Colombia):
Desarrollo conceptual y metodológico de un sistema de información geográfica para el ordenamiento territorial nacional (2513)

Lunch

Time: **Tuesday, 13 November 2007 12:30-14:00**

Venue: Vestibulo Sur

TS 10 – Sustainability in Land Administration

Time: **Tuesday, 13 November 2007 14:00-15:30**

Venue: Salon La Paz B Oeste (West)

Commission: 7

Chair: Dr **Charisse Griffith-Charles** (Trinidad and Tobago)

Dr **Charisse Griffith-Charles** (Trinidad and Tobago):
The Relative Efficacy of Deed and Title Registration Procedures for Facilitating Land Transactions (2444)

Mr **Mathias Lemmens**, Mr **Christiaan Lemmen** and Mr **Martin Wubbe** (The Netherlands)

Pictometry: Potentials for Land Administration (2521)

Ms **Lorena Romero Payes**, Mr **Marlon Bueso Campos**, Mr **Hugo Orellana Paz** and Mr **Marvín Turcios** (Guatemala):

Fortalecimiento de las capacidades administrativas de asociaciones de productores en el manejo y prestación de servicios de irrigación en el valle de la fragua, Zacapa, Guatemala. 2007 (2443)

Prof **Murat Meha** (Kosovo (UNMIK)):
A Review of Reconstruction of Cadastre Based on Pilot Projects in Kosova (2412)

Mr **Martin Wubbe** and Prof **Paul van der Molen** (Netherlands)
E-Government and E-Land Administration - As an Example: The Netherlands (2480)

TS 11 – Spatial Data Infrastructure

Time: **Tuesday, 13 November 2007 14:00-15:30**

Venue: Salon La Paz B Este (East)

Commission: 3

Chair: Dr **Chryssy Potsiou** (Greece)

Ms **Kari Strande** (Norway)

eNorway and Norway Digital as Tools in Good Governance, Risk and Environment Management (2493)

Mr **Jan van Hemert** (Netherlands):

The Development of a National Spatial Data Infrastructure (N.S.D.I.) in General and especially in Costa Rica (2425)

Mrs **Luz Angela Rocha** (Colombia):

The Academic Role on a SDI in a Local Level (2405)

TS 12 – Good Governance in Land Development

Time: **Tuesday, 13 November 2007 14:00-15:30**

Venue: Salon La Paz C Oeste (West)

Commission: 7 and 8

Chair: Mr **Leiv Bjarte Mjøs** (Norway)

Mr **Ricardo Lozano Botache** (Colombia):

Factores que inciden en el precio de las tierras de uso agrícola (2400)

Mrs **Iyenemi Ibimina Kakulu** (Nigeria):

Distortion of Land Value Trends and Growth Patterns in Rural Communities in the Niger Delta Region of Nigeria. By Mrs Iyenemi Ibimina Kakulu (2461)

Coffee Break

Time: **Tuesday, 13 November 2007 15:30-16:00**

Venue: Vestibulo Norte

TS 13 – Administering Marine Spaces

Time: **Tuesday, 13 November 2007 16:00-17:30**

Venue: Salon La Paz B Oeste (West)

Commission: 4 and 7

Chair: Mr **Gordon Johnston** (United Kingdom)

Ms **Miriam Miranda**, Mr **Daniel Acuña** and Mr **Alexander González** (Costa Rica):

Programa de Regularización de Catastro y Registro: Instrumentos para la Regularización de la zona marítimo terrestre en Costa Rica (2453)

Mr **Bob Foster** and Mr **Stephen Mague** (United States):

Where's the Shoreline? Sources of Historical and Contemporary High Water Position Developed in the context of Massachusetts coastal regulations (2413)

Dr **George Cole** (United States):

Delineation of Coastal Boundaries Using Tidal Datums (2415)

Dr **Michael Sutherland** (Trinidad and Tobago):

International Issues in Administering Marine Spaces (2512)

TS 14 – Curriculum Development

Time: **Tuesday, 13 November 2007 16:00-17:30**

Venue: Salon La Paz B Este (East)

Commission: 2

Chair: Prof **Pedro Cavero** (Spain)

Mr **Jonathan Regehr**, Mr **Garreth Rempel** and Mr **Bjorn Radstrom** (Canada), Dr **Rafael Murillo M.** (Costa Rica), Mr **Jorge Arango** (Colombia) and Dr **Jeannette Montufar** (Canada):

Building Advanced Spatial Thinking Capacity into Transportation Engineering Education and Research (2429)

Mr **Mehmet Zeki Coskun** (Turkey):

Surveying Education in ITU (Istanbul Technical University) and Comparison with USA Universities (2454)

Dr **Böder Volker** and Dr **Delf Egge** (Germany):

Hydrographic Education (Category A) at the Newly Founded HafenCity University, Hamburg (HCU) (2464)

TS 15 – Empowerment of the Poor

Time: **Tuesday, 13 November 2007 16:00-17:30**

Venue: Salon La Paz C Oeste (West)

Commission: 7

Chair: Mr **Martin Wubbe** (The Netherlands)

SESSION CANCELLED

Costa Rican Cultural Evening

Time: **Tuesday, 13 November 2007 19:00-22:00**

Venue: Pueblo Antiguo Old Town – Bus Transfer

Commission: All

Dress Code: Casual

Wednesday, 14 November 2007

Plenary Session III – Capacity Building

Time: **Wednesday, 14 November 2007 09:00-10:30**

Commission: All

Venue: Salon La Paz

Chair: Mr **Ken Allred** (Canada)

Mr Daniel Hernandez (Costa Rica)

Development of curriculum of Surveying in Costa Rica: Formation, accreditation and professional certification (2572)

Prof **Pedro Cavero** (Spain)

Curriculum Development in Latin America

Coffee Break

Time: **Wednesday, 14 November 2007 10:30-11:00**

Venue: Vestibulo Norte

TS 16 – Capacity Building in LAS

Time: **Wednesday, 14 November 2007 11:00-12:30**

Venue: Salon La Paz B Oeste (West)

Commission: 2

Chair: Prof **Pedro Cavero** (Spain)

Ms **Gloria Rudas-Cuellar** (Panama)

El Programa Nacional de Tierras de Panamá – Una Experiencia

TS 17 – Development of the Profession

Time: **Wednesday, 14 November 2007 11:00-12:30**

Venue: Salon La Paz B Este (East)

Commission: 1

Chair: Mr **Matt Higgins**, Australia

Mr **Ken Allred** (Canada):

The Surveying Profession (2500)

Mr **Teo Chee Hai** (Malaysia):

Changing the Game: Sustaining the Profession (2401)

Mr **Casey Brennan** and Ms **Erika Wilson** (United States):

NOAA's National Geodetic Survey's Efforts and Opportunities in the Field of Training and Education (2414)

TS 18 – Land Development

Time: **Wednesday, 14 November 2007 11:00-12:30**

Venue: Salon La Paz C Oeste (West)

Commission: 8 and 9

Chair: Prof **Kauko Viitanen** (Finland)

SESSION CANCELLED

Lunch

Time: **Wednesday, 14 November 2007 12:30-14:00**

Venue: Vestibulo Sur

TS 19 – Education Workshop

Time: **Wednesday, 14 November 2007 14:00-15:30**

Venue: Salon La Paz

Commission: 2

Chair: Prof **Pedro Cavero** (Spain)

Workshop discussing key educational issues in the region

TS 20 – Environmental Monitoring

Time: **Wednesday, 14 November 2007 14:00-15:30**

Venue: Salon La Paz B Oeste (West)

Commission: 3 and 8

Chair: Mr **Makis Apostolatos** (Greece)

SESSION CANCELLED

TS 21 – Economic Benefits of Hydrography

Time: **Wednesday, 14 November 2007 14:00-15:30**

Venue: Salon La Paz B Este (East)

Commission: 4

Chair: Mr **Andrew Leyzack** (Canada)

Mr. **Gordon Johnston** (United Kingdom)

The Economic Benefits of Hydrography and Ocean Mapping (2452)

Mr **Serge Lévesque** and Mr **Alexis Cardenas** (Canada):

Marine Geospatial Software: Generating Economic Benefits from Hydrographic Data and Calculation of Maritime Boundaries (2445)

Capt **Hugo Gorziglia** (Monaco)

The Value of Hydrographic Information and its Influence (2522)

Coffee Break

Time: **Wednesday, 14 November 2007 15:30-16:00**

Venue: Vestibulo Norte

Closing Ceremony

Commission: All

Time: **Wednesday 14 November 2007 16:00-17:30**

Venue: Ramada Plaza Herradura Hotel

- Report on the Regional Conference 2007 by Arq **Eugenia Morales**, Sub Director CFIA
- Closing Remarks by Ing **Juan Manuel Castro Alfaro**, President of CFIA/CIT
- Closing Address and Summary of the Regional Conference by Prof **Stig Enemark**, FIG President
- Appreciation to the 6th FIG Regional Conference by Prof **Stig Enemark**, FIG President
- FIG Fanfare
- Closing of the Regional Conference 2007

Farewell Dinner

Commission: All

Time: **Wednesday 14 November 2007 19:00 – 22:30**

Venue: Ramada Plaza Herradura Hotel

Dress Code: Business Suit

Thursday, 15 November 2007

Technical and Social Tour to Poás Volcano, lunch at Colinas del Poás restaurant, and Coffee Tour in Café Britt coffee plantation

Commissions: All

Time: **Thursday 15 November 2007 09:00 – 16:30**

Bus leaves at 8:30 so be precise!!

Recommendations: Light jacket, comfortable shoes, binoculars and camera