

**2<sup>nd</sup> FIG REGIONAL CONFERENCE**  
**Marrakech, Morocco**  
**December 2-5, 2003**

**TECHNICAL PROGRAMME**

**Tuesday December 2, 2003**

**09:00-10:00 Plenary Session 1**

Chair: **Rachid Jamaii**, Morocco

Rapporteur: **Andreas Drees**, Vice President of FIG

PS1.1 **Don C. I. Okpala**, UN-HABITAT: Promoting the Positive Rural-Urban Linkages Approach to Sustainable Development and Employment Creation: The Role of UN-HABITAT

PS1.2 **David Palmer**, FAO: Rural Aspects in the Urban-Rural Interrelationship for Sustainable Environment – FAO Perspectives

PS1.3 **Moulay Chérif Tahiri Alaoui**, Directeur Central, Royaume du Maroc, Premier Ministre, Ministère délégué chargé de l. habitat et de l'urbanisme, Secrétariat Général, Direction de la Promotion Immobilière: La nouvelle politique du gouvernement en matière d'habitat social.

**10:30-12:00 Technical Session TS 1 – Urban-Rural Relationship in Land Management**

Chair: **Chukwudozie Ezigbalike**, UN Economic Commission for Africa

Rapporteur: **Mohamed Ettarid**, Morocco

Introduction papers

TS1.1 **Michael Barry** (Canada): Periurban Tenure Management in South Africa

TS1.2 **Solomon Abebe Haile** (Ethiopia) and **Reinfried Mansberger** (Austria): Land Policy, Urban-Rural Interaction and Land Administration Differentiation in Ethiopia

TS1.3 **Farouk Tebbal** and **Clarissa Augustinus**, Shelter Branch, UN-HABITAT: The Millennium Development Goals and Security of Tenure. This paper has not been presented in the conference.

Case studies

TS1.4 **Wafula Nabutola** (Kenya): Urban-Rural Relationship in Land Management and Access to Land – Kenyan Experiences

TS1.5 **Mohamed M'Hassni**, **Mohamed Feljy** and **Hamid Khalali** (Morocco): Le Système Foncier au Maroc. Une sécurité et un facteur de développement durable. Au milieu urbain et rural

TS1.6 **Mehmet Gür**, **Volkan Cagdas** and **Hülya Demir** (Turkey): Urban-Rural Interrelationship and Issues in Turkey. This paper has not been presented in the conference.

## **10:30-12:00 Technical Session TS 2 – SDI-Policy**

Chair: **Robert W. Foster**, USA

Rapporteur: **Chryssy A. Potsiou**, Greece

### Introduction papers

TS2.1 **Robert Mahoney** and **Robin Waters** (United Kingdom): Sustainable Mapping Provision in Developing Countries – Getting it together, the Geography Jigsaw

TS2.2 **Vlado Cetl**, **Miodrag Roić** and **Darko Šiško** (Croatia): Towards a Spatial Data Infrastructure in Croatia

TS2.3 **Peter Bartak** (The Netherlands): Enabling Spatial Data Infrastructures for Sustainable Development (Mise en oeuvre d'infrastructures de données spatiales pour le développement durable)

### Case studies

TS2.4 **Karima Salik** and **Nabila Licer** (Morocco): ANCFCC: Offre en matière de données cartographiques numériques

TS2.5 **Efi Dimopoulou**, **Tassos Labropoulos**, **Vasso Nikolaidou** and **Panagiotis Zentelis** (Greece): Comparative Analysis of NSDI Policies in Greece and Cyprus – Two Different Systems within the EU

TS2.6 **Peyman Baktash** (Iran): National and Regional Spatial Data Infrastructure (NSDI & RSDI) and National Cartographic Center of Iran's Activities about it. This paper has not been presented in the conference.

TS2.7 **Nab Raj Subedi** (Nepal): Challenges to the National Mapping Organisation in the Context of Nepal Leading to the Formation of National Geographic Information Infrastructure. This paper has not been presented in the conference.

## **10:30-12:00 Technical Session TS 3 – The Role of Remote Sensing in Managing the Urban-Rural Interrelationship**

Chair: **Omari Mohamed Cherkaoui**, Morocco

Rapporteur: **Ralf Schroth**, Vice President of FIG

### Introduction papers:

TS3.1 **Youcef Smara**, **Khedidja Saib** and **Amina Zouaoui** (Algeria): Detection de changements de zones urbaines et peri-urbaines de la region d'Alger (Algerie) a l'aide de l'imagerie radar SAR

TS3.2 **Aicha El Rhali** (Morocco): Extraction et analyse du tissu urbain par approche statistique et structurale à partir de l'imagerie satellitale à haute et très haute résolution. This paper has not been presented in the conference.

### Case studies:

TS 3.3 **Shaban Mansou, Eshaab Shbeli and Khiri Elhemali** (Libya): Impacts of the Random Building on Environment in Ain Zara Area, Tripoli, Libya Using Remote Sensing and GIS Technology. This paper has not been presented in the conference.

TS3.4 **Abdullad Madar and Lahcen Lahraoui** (Morocco): Trace d'une ceinture verte pour lutter contre l'ensablement a partir de l'anylyse d'une image SPOT 5

TS3.5 **Youcef Smara, Nadia Ouarab, Sihem Laama and Dalila Chérifi** (Algeria): Techniques de fusion et de classification floue d'images satellitaires multisources pour la caracterisation et le suivi de l'extension du tissu urbain de la region d'Alger (Algerie)

TS3.6 **Teoh Chin Chuang, Shattri Mansor, Abdul Rashid Mohamed Shariff and Noordin Ahmad** (Malaysia): Optimum Band Selection for Image Visualization of Multispectral Data in Relation to Natural Resources Management

TS3.7 **Bachir Ablat, Mohamed Rouchdi, Anas Emran, Mohammed Hmam, Assou Mohamm** and **Zakariae el Yacoubi** (Morocco): La cartographie thematique et le developpement

### **14:00-15:30 Technical Session TS 4 – Management of Land**

Chair: **András Osskó**, Hungary

Rapporteur: **Reinfried Mansberger**, Austria

### Introduction papers

TS4.1 **Enikó Kovács** (Hungary): Is Land Consolidation Just a Dream in Hungary?

TS4.2 **Ioan Stangu, Maria Contoman, Mugurel Enache, Alexandrina Zaharia and Mariana Ravdan** (Romania): Cadastre and Environment Protection. This paper has not been presented in the conference.

TS4.3 **Mehmet Gür, Volkan Çagdas and Zerrin Demirel** (Turkey): Land Consolidation as a Tool of Rural Sustainable Development. This paper has not been presented in the conference.

TS4.4 **Francis Chitsike** (Zimbabwe): A Critical Analysis of the Land Reform Programme in Zimbabwe. This paper has not been presented in the conference.

### Case studies

TS4.5 **Mohamed Ghanam** (Morocco): La desertification au Maroc – Quelle stratégie de lutte?

**14:00-15:30 Technical Session TS 5 – e-Government Aspects of Land**

Chair: **Robert Mahoney**, United Kingdom

Rapporteur: **Christiaan Lemmen**, the Netherlands

Introduction papers

TS5.1 **Peter Stolk and Christiaan Lemmen** (Netherlands): Technical Aspects of Electronics Conveyancing

TS5.2 **Driss Kettani and Hachim Haddouti** (Morocco): Transparency of Administrative Structures: E-Government?

TS5.3 **Myles Flynn** (Bahrain) and **Jerry Johnson** (USA): Multi-Purpose Cadastre Based on FIG Cadastre 2014 and ARCGIS

Case studies

TS5.4 **Karna Suman Kumar** (Australia): Rural-Urban Linkage and Role of Civil Society: A Successful Model for Good Urban Governance in Nepal

TS5.5 **Çetin Cömert and Halil Akinci** (Turkey): Web Services: An e-Government Perspective. This paper has not been presented in the conference.

**14:00-15:30 Technical Session TS 6 – Regional Reference Frame I**

Chair: **Taieb Berrada Allam**, Morocco

Rapporteur: **Mikael Lilje**, Sweden

Introduction papers

TS6.1 **Zuheir Altamimi** (France) : ITRF, GPS Permanent Stations and the AFREF Project

TS6.2 **Noureddine El Fettah** (Morocco): Vers une redéfinition du référentiel géodésique Marocain

TS6.3 **Habib Taibi, Abdelkader Nadir Nabed and Chadli Bendjedid Kadri** (Algeria): Uniformisation des campagnes GPS: CAS d'étude, Ouest de l'Algerie. This paper has not been presented in the conference.

TS6.4 **Bachir Gourine, Boualem Ghezali and Habib Taibi** (Algeria): Méthodologie de contrôle et d'amélioration des réseaux géodésiques 2-D

**14:00-16:00 Roundtable on Surveying and GIS Education in Africa**

Chair: Prof. **Holger Magel**

**16:00-17:30 Roundtable Discussion**

Chair: **Robert Mahoney**, United Kingdom

Rapporteur: **Reinfried Mansberger**, Austria

## **17:30-18:30 Opening Ceremony**

Prof. Dr.-Ing. **Holger Magel**, President of FIG: Urban-Rural Interrelationship for Sustainable Development

Mr. **Aziz Hilali**, President of ONIGT

Mr. **Sarkis Fadous**, President of the Arab Federation of Surveyors

## **18:30 - Welcome Reception**

**Wednesday, December 3, 2003**

### **09:00-10:00 Plenary session 2**

Chair: **Driss Jellouli**, Morocco

Rapporteur: **Bettina Petzold**, Vice President of FIG

PS2.1 **Svein Tveitdal**, Director of DEC and DEPI of the United Nations Environment Program (UNEP): Urban-Rural Interrelationship as a Condition to Sustainable Environment

PS2.2 **Chukwudozie Ezigbalike**, UN Economic Commission for Africa: SDI Africa: An Implementation Guide

### **10:30-12:00 Technical Session TS 7 – Coastal Zone Management**

Chair: **T.N. Wong**, Vice President of FIG

Rapporteur: **Mohamed Bakessou**, Morocco

#### Introduction papers

TS7.1 **El Kébir Hannou** (Morocco): Aménagement du territoire et développement du littoral, cas de la partie septentrionale du Maroc

TS7.2 **Dodé Bendu Johnson** (Togo): Un exemple d'approche multisource de l'étude de l'occupation du sol pour l'analyse de la dynamique spatiale sur la bande littorale du Togo ( An Example of Multi-source Approach of Land Use Study for the Spatial Analysis on the Littoral of Togo)

TS7.3 **Majid Mansour** (Morocco): Environnements littoraux et aménagement durable: Apport de l'information spatiale

TS7.4 **Anas Emran** and **Mustapha Hakdaoui** (Morocco): Suivi par télédétection de l'évolution spatio-temporelle de la frange littorale au Nord-est de Tétouan

#### Case studies:

TS7.5 **Faik Ahmet Sesli** and **Arif Cagdas Aydinoglu** (Turkey): Monitoring Coastal Land Use Changes by Using Information Technologies. This paper has not been presented in the conference.

TS7.6 **Faik Ahmet Sesli** and **Fevzi Karsli** (Turkey): Monitoring Coastal Land Use Changes on the Turkish Black Sea Coast with Remote Sensing: An Example from Trabzon, Turkey. This paper has not been presented in the conference.

### **10:30-12:00 Technical Session TS 8 – Geographic Information for Planning**

Chair: **Szabolcs Mihaly**, Hungary

Rapporteur: **Eniko Kovacs**, Hungary

#### Introduction papers

TS8.1 **Mohamed Ait Belaid** (Bahrain): Urban-Rural Land Use Change Detection and Analysis Using GIS and RS Technologies

TS8.2 **El Hassane Semlali, Sèdèhou Azon** and **Elarbi Elarchi** (Morocco): Conception et développement d'un prototype SIG pour la gestion du suivi d'exécution des travaux d'une autoroute

TS8.3 **Yaacoub Saade** (Lebanon): SIG et developpement urbain - Influence du cadastre et des données géodésiques dans un developpement urbain et rural

#### Case studies

TS8.4 **Winnie Shiu** (Hong Kong SAR, China): Geographic Information – Organization Challenges in the Hong Kong Context

TS8.5 **Mourad Bouziani** (Morocco): Définition d'une méthode d'extraction des mises à jour de l'information spatiale dans un réseau routier en milieu urbain. This paper has not been presented in the conference.

### **10:30-12:00 Technical Session TS 9 – Regional Reference Frame II**

Chair: **Rudolf Staiger**, Germany

Rapporteur: **Ali Oufrid**, Morocco

#### Introduction papers

TS9.1 **Edouard Fonh Gbei** (Canada): Le développement d'un modèle polynomial de Géoid locale et son modèle stochastique associé : Un support pour l'extraction précise des hauteurs orthométriques à partir des observations GPS. This paper has not been presented in the conference.

TS9.2 **Benahmed Daho Sid Ahmed** (Algeria): Calcul des hauteurs orthométriques à partir des observations GPS : Cas d'étude : Nord de l'Algérie (Orthometric Height Computation from GPS Observation: Case Study: North of Algeria)

TS9.3 **Charles R. Merry** (South Africa): The African Geoid Project and Its Relevance to the Unification of African Vertical Reference Frames

TS9.4 **El Hassan Benaim** and **Lahcen Bouramdane** (Morocco): Plan coté au GPS

TS9.5 **Rachid Azzouzi, Mohamed Ettarid, El Hassane Semlali and Abdelkrim Rimi** (Morocco): Contribution à la détermination des déplacements horizontaux récents et déformations des plaques Africaine et Eurasienne dans l'Ouest Méditerranéen. Au cours de la période 1997-2003

**14:00-15:30 Technical Session TS 10 – Security of Tenure and Access to Land**

Chair: **Christiaan Lemmen**, the Netherlands

Rapporteur: **Karin Haldrup**, Denmark

Introduction papers

TS10.1 **András Osskó** (Hungary): Creation Land Administration in Formal and Informal Environment – FIG Commission 7 Working Group 1

TS10.2 **Per Kåre Sky** (Norway): Land Tenure Conflicts: Suitable for Mediation?

TS10.3 **Alexandrina Zaharia** (Romania): Public and Private Property in Romania. This paper has not been presented in the conference.

Case studies

TS10.4 **Cemal Biyik and Ayse Yavuz** (Turkey): The Importance of Property Ownership and Management System in the Ottoman Empire in Point of Today. This paper has not been presented in the conference.

**14:00-15:30 Technical Session TS 11 – Management of Water Resources**

Chair: **Adam Greenland**, United Kingdom

Rapporteur: **Ruth Adams**, United Kingdom

Introduction papers

TS11.1 **Charles Paradzayi** (Zimbabwe) and **Heinz Ruther** (South Africa): The Development and Implementation of the Lake Rukwa Basin Integrated Project Environmental Information System (LRBIP-EIS) Database, Tanzania. This paper has not been presented in the conference.

TS11.2 **Ralf Löwner** (Germany) and **Abdellatif Souhel** (Morocco): The Sahel-Doukkala Information Network (SaDIN) – A regional online geoinformation system

TS11.3 **Mohamed Sinan** and **Rachid Maslouhi** (Morocco) and **Moumtaz Razack** (France): Utilisation des SIG pour la caractérisation de la vulnérabilité et de la sensibilité à pollution des nappes d'eau souterraine. Application à la nappe du Haouz de Marrakech

Case studies:

TS11.4 **Hesbon Ocheho** (Kenya): Application of Remote Sensing in Deforestation Monitoring – A Case Study of the Abedares, Kenya. This paper has not been presented in the conference.

TS11.5 **Jafar Najjhamodi** and **Hussain Khadir** (Iran): Studying the Environmental and Economical Effect of the Salty Water From Wells in Mazandaran. This paper has not been presented in the conference.

**14:00-15:30 Technical Session TS 12 – Positioning and Measurement Technologies and Practices**

Chair: **Taïb Tachalait**, Morocco

Rapporteur: **Dan J. Schnurr**, United Kingdom

Introduction papers:

TS12.1 **Volker Schwieger** (Germany): Using Handheld GPS Receivers for Precise Positioning

TS12.2 **Cor de Kuijper** (Netherlands): Fugro-Omnistar Worldwide High Performance Decimetre Accuracy

TS12.3 **Rudolf Staiger** (Germany): Terrestrial Laser Scanning – Technology, Systems and Applications

TS12.4 **Milan Kocáb** (Czech Republic): New Technologies of Measurement and Role of Field Sketches

**14:00-15:30 Commission 3 Annual Meeting**

Chair: **Gerhard Muggenhuber**

- Commission 3 national delegates

**16:00-17:30 Technical Session TS 13 – Risk Management**

Chair: **Andreas Drees**, Vice President of FIG

Rapporteur: **Michael Barry**, Canada

Introduction papers:

TS13.1 **Theo Kötter** (Germany): Prevention of Environmental Disasters by Spatial Planning and Land Management

TS13.2 **Abdelkader Missoumi** and **Kouider Tadjerouni** (Algeria): SIG et imagerie Alsat1 pour la cartographie du risque d'incendie de forêt (GIS and Imagery of the Algerian Satellite ALSAT1 for the Cartography of Forest Fire Risk). This paper has not been presented in the conference.

TS13.3 **Laila El Founti** (Morocco): La gestion des risques au Maroc

Case studies:

TS13.4 **Mostefa Belhadj-Aissa**, **Aichouche Belhadj-Aissa** and **Youcef Smara** (Algeria): Application du SIG et de la télédétection dans la gestion des feux de forêts en Algérie

TS13.5 **Shattri Mansor** and **Seyedeh Zahra Pourvakhshouri** (Malaysia): Oil Spill Management via Decision Support System

TS13.6 **Vladimír Sedlák**, **Soňa Molčíková**, **Viera Hurčíková**, **Milan Frajt** and **Peter Mišovic** (Slovakia): Protection of the Environment and Modelling Surface Movements in GIS in the East Slovak Region. This paper has not been presented in the conference.



## **16:00-17:30 Technical Session TS 14 – Cadastre in the Mediterranean**

Chair: **Christiaan Lemmen**, the Netherlands

Rapporteur: **Mohamed Ait Belaid**, Morocco

### Introduction papers

TS14.1 **Moha El Ayachi, El Hassane Semlali, Mohamed Ettarid and Driss Tahiri** (Morocco) and **Pierre Robert** (USA): New Vision towards a Multipurpose Cadastral System to Support Land Management in Morocco

TS14.2 **Osman Demir, Mustafa Atasoy, C. Coşkun Aydin and Cemal Biyik** (Turkey): A Case Study for Determining the Turkish Cadastre Contents. This paper has not been presented in the conference.

TS14.3 **Mohamed Ettarid, Moha El Ayachi, El Makky Ettaqui, Mohamed El Yamani** (Morocco): L'Orthophotographie numérique au service du Cadastre National

TS14.4 **Moha El Ayachi** (Morocco) and **Pierre Robert** (USA): A Conceptual Model of an Automated Land Information Machine (ALIM)

TS14.5 **Ahmed Benaissa** (Algeria): L'évolution de la propriété foncière à travers les textes et les différents modes d'accès à la propriété foncière (Land Property System in Algeria). This paper has not been presented in the conference.

## **16:00-17:30 Technical Session TS 15 – Digital Cadastre – Technical Aspects**

Chair: **Jamal Eddine Guerraoui**, Morocco

Rapporteur: **T.N. Wong**, Vice President of FIG

### Introduction papers

TS15.1 **Václav Slaboch** (Czech Republic): Combining Cadastral of Real Estate with GIS Data – A Contribution to Sustainability

TS15.2 **Mohammed Essadiki and Mohamed Ettarid** (Morocco) and **Pierre Robert** (USA): Nouvelle Approche du Recasement Parcelaire en utilisant un S.I.G. (Cas du Maroc)

TS15.3 **Osman Demir, Recep Nişanci, Mustafa Atasoy and C.Coşkun Aydin** (Turkey): Forming the Digital Cadastral Maps from Current Cadastral Data: The Importance of Geodetic Control Points. This paper has not been presented in the conference.

TS15.4 **M. El Makhchouni, E. El Batane and Mme N. Licer** (Morocco): L'Administration en ligne à l'ANCFCC. This paper has not been presented in the conference.

TS15.5 **Sameer Abbadi** (Jordan): Department of Lands and Survey – The Modernization Journey.

## **17:30-18:30 Roundtable Discussion**

Chair: **Mohamed Knidri**, Morocco

Rapporteur: **Christiaan Lemmen**, the Netherlands

**Thursday, December 4, 2003**

**09:00-10:00 Plenary Session 3**

Chair: **Bettina Petzold**, Vice President of FIG

Rapporteur: **Mohamed Essadiki**, Morocco

PS3.1 **Stig Enemark** (Denmark): Underpinning Sustainable Land Administration Systems for Managing the Urban and Rural Environment

PS3.2 **Heinz Rütther** (South Africa): The Situation of Geomatics Education in Africa – An Endangered Profession

PS3.3 **Alain Gaudet**, President of Ordre des Géomètres-Experts, France: Le géomètre-expert et le développement durable

**10:30-12:00 Technical Session TS 16 – Education and Curricula for Surveyors**

Chair: **Pedro J. Caverio**, Spain

Rapporteur: **Mohamed Bakessou**, Morocco

TS16.1 **Driss Tahiri** and **Mohamed Ettarid** (Morocco): La formation en ingénierie topographique à l'IAV Hassan II

TS16.2 **Mohamed Sinan**, **Abdelhamid Fadil** and **El Hassan El Brirchi** (Morocco): Présentation de la filière S.I.G. de l'EHTP (Maroc)

TS16.3 **A. Touzani** (Morocco): L'apport des outils spatiaux dans la mise à niveau de la cartographie rurale et urbaine en Afrique: Exemple, la formation poste graduée en technologie spatiale au CRASTE-LF

TS16.4 **Paul Watson** and **Richard Davis** (United Kingdom): A Practical Approach for Incorporating Integrated Teams into the Surveying Curriculum

**10:30-12:00 Technical Session TS 17 – Property Taxation**

Chair: **Stephen Yip**, Hong Kong SAR, China

Rapporteur: **Brian Waldy**, United Kingdom

Introduction papers:

TS17.1 **Volkan Cagdas**, **Mehmet Gür** and **Vildan Kurt** (Turkey): Property Taxation and Land Management

TS17.2 **Frances Plimmer** (United Kingdom): Cloud Cuckoo Land – An Overview of the Method of Valuation for Local Property Tax (Rates) in the United Kingdom

TS17.3 **Frances Plimmer** and **Nigel Dubben** (United Kingdom): The Land of Make Believe: An Overview of the Assessment of Compensation for Land Taken on Compulsory Acquisition in the United Kingdom

TS17.4 **Frantz Derlich**, **Jean Cédric Landry** et **Rafic Khouri** (France): Aménagement Foncier: Outil de Développement Durable L'expérience Française

## **10:30-12:00 Technical Session TS 18 – GIS Tools for Applications**

Chair: **Mohamed Ait Belaid**, Bahrain

Rapporteur: **Reinfried Mansberger**, Austria

### Introduction papers

TS18.1 **Szabolcs Mihaly** (Hungary): Hungarian Approach to the Model of Database for Unified Land Registry

TS18.2 **Madan Mohan** (India): GIS Based Integrated Approach for Monitoring and Modeling of Hyper-Urbanization for Sustainable Environment Development in Delhi. This paper has not been presented in the conference.

TS18.3 **Hartmut Müller** (Germany): Digital Landscape Documentation – A Case Study on how to Create useful Geographic Information

### Case studies

TS18.4 **Arnis Asmat, Shattri Mansor and Wong Tai Hong** (Malaysia): Rule Based Classification for Urban Heat Island Mapping

TS18.5 **Ritsuo Sakimura and Kyuichi Maruyama** (Japan): The Method of Setting Slope Stakes in Road Construction Using 3-D Design Model

TS18.6 **Selçuk Reis, Recep Nişanci, Bayram Uzun, Ali Yalçın, Halilibrahim Inan and Tahsin Yomralioğlu** (Turkey): Monitoring Land-use Changes by GIS and Remote Sensing Techniques: Case Study of Trabzon, Turkey. This paper has not been presented in the conference.

## **14:00-15:30 Technical Session TS 19 – Geographic Information – Organisational Challenges**

Chair: **Karin Haldrup**, Denmark

Rapporteur: **Rainer Müller-Jökel**, Germany

### Introduction papers

TS19.1 **Gerhard Muggenhuber and Reinfried Mansberger** (Austria): Impact of Decentralisation and Community Empowerment to Spatial Information Management

TS19.2 **Peter Bartak** (The Netherlands): Open Interoperability: From Conception to Realisation (Interopérabilité ouverte: de la conception à la réalisation)

TS19.3 **Abdelali Taouss** (Morocco): Les serveurs des Métadonnées géographiques : Moyen organisationnel et outil de diffusion de l'information spatiale (The Geographic Metadata Servers: Organizational Means and Tool of Spatial Information Diffusion)

TS19.4 **Paul van der Molen** (Netherlands): Some Macroeconomic Aspects of Land Ownership. This paper has not been presented in the conference.

**14:00-15:30 Technical Session TS 20 – Housing Financing**

Chair: **Mike Barry**, Canada

Rapporteur: **T. N. Wong**, Vice President of FIG

Introduction papers

TS20.1 **Mehmet Gur, Hülya Demir, Vildan Kurt and Volkan Cagdas** (Turkey): Housing Financing in Turkey

TS20.2 **Wafula Nabutola** (Kenya): A Man's House is His Castle

**14:00-15:30 Technical Session TS 21 – Education and Professionalism for Surveyors**

Chair: **Stig Enemark**, Denmark

Rapporteur: **Abdelilah El Himdy**, Morocco

Introduction papers

TS21.1 **Stig Enemark** (Denmark) and **Pedro J. Cavero** (Spain): The Surveyor of the XXI<sup>st</sup> Century

TS21.2 **Pedro J. Cavero** (Spain): Activities of Commission 2 for the Next Years

TS21.3 **Frances Plimmer** (United Kingdom): Education for Surveyors: An RICS Perspective

**16:00-17:30 Technical Session TS 22 – Professional Organisations – Capacity Building through Professional Competence**

Chair: **Klaus Rürup**, Germany

Rapporteur: **Michael Keller**, Switzerland

TS22.1 **Robert W. Foster** (USA) Risk Management – The American Scene

TS22.2 **Steponas Deveikis** (Lithuania): Création des compétences professionnelles dans les organismes non-gouvernementaux lituaniens des Géomètres (Professional Capacity Building in Lithuanian Non-Governmental Organisations of Surveyors)

TS22.3 **P.P. Oli** (Nepal): Land Pooling: The Public Private Participatory Urban Development in Nepal. This paper has not been presented in the conference.

TS22.4 **Michael Keller** (Switzerland): General Framework of Development Policy and Financing

**16:00-17:30 Technical Session TS 23 – Technology and Cadastre**

Chair: **Johan de Meijere**, the Netherlands

Rapporteur: **Dan J. Schnurr**, United Kingdom

Introduction papers

TS23.1 **Chryssy A. Potsiou and Charalabos Ioannidis** (Greece): Low Cost Technologies and Techniques in Implementing Cadastral and Spatial Information Management Infrastructure

TS23.2 **Mohamed Ettarid, Fatima Barkane, Jaouad Bouhajla and Ahmed Nasserline** (Morocco): Contribution à la mise en place d'un observatoire pour l'aménagement du territoire

#### Case studies

TS23.3 **Mohamed Rouchdi, Mohamed Ajerame, Mohamed Badraoui, Mohamed Ettarid, El Mostfa Tammah and Mohammed Haoujar** (Morocco): Effet du relief sur la détermination des superficies dans les projets d'aménagement du territoire. This paper has not been presented in the conference.

TS23.4 **El Hassan Benaim and Nadia Bouzghar** (Morocco): Développement d'une interface pour la constitution automatique d'un dossier cadastral dont les données ont été acquises par GPS

TS23.5 **Abdelkader Nadir Nabed, Habib Taibi and Hakim Zouahra** (Algeria): Adjustement des données GPS et terrestre a l'aide du module SNAP de WINPRISM : Application cadastrale. This paper has not been presented in the conference.

TS23.6 **Alexey V. Tikunov, M.V. Lomonosov, Vorob'ievi Gori** (Russia): Method of Potentials for Spatial Planning. This paper has not been presented in the conference.

TS23.7 **Vladimir S. Tikunov** (Russia): Atlas Information Systems – Organisations Challenges (Sustainable Development of Russia Case Study). This paper has not been presented in the conference.

#### **16:00-17:30 Technical Session TS 24 – Spatial Planning in Promoting Good Urban and Rural Environment**

Chair: **El Hassane Semlali**, Morocco

Rapporteur: **Theo Kötter**, Germany

#### Introduction papers

TS24.1 **Rainer Müller-Jökel** (Germany): Citizens' Participation in Urban Development and Land Management Process

TS24.2 **Ayse Yavuz and Bayram Uzun** (Turkey): A New Vision in Compromising of Civilizations: The Right of Real Property Acquisition of Foreigners in Turkey. This paper has not been presented in the conference.

TS24.3 **Karin Haldrup** (Denmark): From Elitist Standards to Basic Needs – Diversified Strategies to Land Registration Serving Poverty Alleviation Objectives

TS24.4 **El Mostapha El Fatihi, El Hassane Semlali, Moha El Ayachi and Mohamed Amjad Mjouel** (Morocco) : Implémentation d'un SIG multi-usage pour la gestion des données cadastrales et urbaines et son déploiement sur Internet (Cas de la commune de Anfa)

#### Case studies

TS24.5 **Julia Theodoraki-Patsi and Agelliki-Myrto Theodoraki** (Greece): Roof Pattern as a Characteristic Architectural Element for Urban-Rural Classification of Greek Settlements

TS24.6 **Constantin Bah** (Benin): La problématique environnementale: Interaction entre l'urbanisme et le ruralisme

**17:30-18:30 Closing Ceremony and Resolutions**