

FIG Working Week
Paris, France
13-17 April 2003

Technical programme

Sunday 13 April 2003
16:00–17:30

Anniversary Session

Chair: **Holger Magel**, President of FIG

AS.1 **Jan de Graeve**, Director of the International Institution on the History of Surveying and Measurement: 125 Years - How FIG Was Established in 1878

AS.2 **Michel Godet**, Industrial Prospective at Conservatoire Nationale des Arts et Métiers, France: Strategic Prospective

AS.3 **Andreas Drees**, Vice President of FIG: About the Future Role of FIG in a Vulnerable World

Monday 14 April 2003
9:00–10:30

PS 1 – Plenary Session 1 – Cadastre

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

PS1.1 **Concepción Camarero-Bulló**, Departamento de Geografía, Universidad Autónoma de Madrid, Spain: The Cadastre in the 18th Century in Spain

PS1.2 **Pierre Clergeot**, Professor at the Ecole Supérieure des Géomètres et Topographes au Conservatoire National des Arts et Métiers, France: The Origins of the French General Cadastre

PS1.3 **Paul van der Molen**, Chair of FIG Commission 7, the Netherlands: The Future Cadastres – Cadastres after 2014

Tuesday 15 April 2003
9:00–10:30

PS 2 – Plenary Session 2 – Private and Public Systems in Geoinformation

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

PS2.1 **Nick Land**, Executive Director, EuroGeographics: The Role of the National Mapping Agencies in Building Europe's Spatial Data Infrastructure

PS2.2 **François Salgé**, Secretary General of the French National Council for Geographic Information, France: The Geographic Information Umbrella Organisations in France

PS2.3 **Dr.-Ing. Holger Schade**, General Manager, SICAD Geomatics GmbH & Co oHG, Germany: Evolution of the GIS Industry

Wednesday 16 April 2003
9:00–10:30

PS 3 – Plenary Session 3 – Future Techniques

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

PS3.1 **Marc Bernard** and **Philippe Munier**, Spot Image, France: Evolution in the Use of Space Imagery – Trends and Challenges

PS3.2 **Luis G. Hecht, Jr.**, Chair, Open GIS Consortium (Europe) Limited: OGC in the GIS Market – “What’s Next?”

PS3.3 **Monika Sester**, Institute of Cartography and Geoinformatics, University of Hanover, Germany: GIS – Achievements and Challenges

Monday 14 April 2003
11:00–12:30

TS 1 – Best Practices in Land Administration – Regional Perspectives

Venue: Amphi Cauchy

Coordinator: **Paul van der Molen**, Chair of Commission 7

Chair: **Paul van der Molen**, Chair of Commission 7 (Netherlands)

TS1.1 **Jürg Kaufmann** (Switzerland): Cadastre as the Basic Tool for Land Administration – Need for a Big Leap Forward

TS1.2 **András Oskó** (Hungary): Land Administration as Infrastructure for Land Privatisation Procedures in Central Eastern European Countries

TS1.3 **Michael Keller** and **Gerhard Hofmann** (Switzerland): Development Policy and Its Influence on Cadastre Systems and Land Management

TS1.4 **Andrzej Hopfer** (Poland): Cadastre as a Compact Tool for Proper Land Use – via Taxation and Physical Planning

Posters:

PP1.1 **Christelle Faivre** (France): Some Experience of IGN France International Department in Land Administration

PP1.2 **Charalambos Ioannidis** (Greece): Compilation of Urban Cadastral Maps: A Proposal for a Cadastral Reform Process

PP1.3 **Adrianna Pułeczka** (Poland): Rural Landscape Planning in Poland – Surveyors and Landscape-Architects Cooperation

PP1.4 **Jean-Pierre Maillard** (France): The Land Property Mastership of Euro Disneyland at Marne-la-Vallée

PP1.5 **Martijn J. Rijsdijk** (Netherlands): Innovative Techniques in Land Administration – Structural Allocation in Modern Land Development

PP1.6 **Sevkiye Sence Turk** (Turkey): The Residential Land Development Policy in Turkish Urban Areas

PP1.7 **Jean Biget** and **Dominique Paradol** (France): Multi-use of Land and Use of Survey – A New Tool: Exchanges and Transfers of the Forest Lands

PP1.8 **Ioan Stangu, Mugurel Enache** and **Mariana Ravdan** (Romania): Cadastre – Feedback of Human Actions upon Environment

Monday 14 April 2003
11:00–12:30

TS 2 – Best Practice in Capacity Building

Venue: Amphi Navier

Coordinator: **Pedro Caverro**, Chair of Commission 2

Chair: **Ulf Jensen**, Vice Chair of Commission 2 (Sweden)

TS2.1 **Marie C. Robidoux** (Canada): Capacity Building in Northern Canada – One Person at a Time. This paper was not presented at the conference.

TS2.2 **Stig Enemark** (Denmark): Understanding the Concept of Capacity Building and the Nature of Land Administration Systems

TS2.3 **Kazimierz Czarnecki** and **Ryszard Szpunar** (Poland): Field-training in Geodesy – State-of-the-Art

TS2.4 **Svato Michalčák** (Slovakia): Impact of Information Era on Philosophy and Concepts of Tertiary Education and FIG Activities

Posters:

PP2.1 **Dominique Desmet** (France): Public Service Delegation and Compulsory Continuing Professional Development

Monday 14 April 2003

11:00–12:30

TS 3 – Partnerships – PPP-Co-operation

Venue: Salon A

Coordinator: **Klaus Rürup**, Chair of Commission 1

Chair: **Paul Lohmann**, Chair of Commission 8 (Netherlands)

Co-chair: **Leonie Newnham**, Vice Chair of Commission 1 (Australia)

TS3.1 **Simon Adcock** (Australia): The Procurement of Valuation / Appraisal Assessment for Government through Partnering

TS3.2 **Leonie Newnham** (Australia): Project Management within Professional Organisations – Where Does It Fit?

TS3.3 **Richard Davis** and **Paul Watson** (United Kingdom): Dispute Resolution Provisions in PFI Contracts

TS3.4 **Rainer Müller-Jökel** (Germany): Sustainable Urban Development in Cases of Complicated Land Ownership Situations

TS3.5 **Paul Lohmann** and **Bennie Beuvink** (Netherlands): Results of Working with the Neighbourhood Corporation Enschede B.V.: The Year 2002, the First Year in Business

Posters:

PP3.1 **Yaacoub Saade** (Lebanon): The Real Estate Management in Lebanon and the Influence of Urban Planning and Cadastre on the Valuation

PP3.2 **Bernard Bour** and **Jean-Yves Bourguignon** (France): Process of Professional Practice and Public Service Delegation

PP3.3 **Guy Francois** (France): Specific Insurance Policy for “Géomètres-Experts” (L’Assurance chez les Géomètres-Experts)

Monday 14 April 2003

14:00–15:30

TS 4 – Best Practices in Land Administration – Country Perspectives

Venue: Amphi Cauchy

Coordinator: **Paul van der Molen**, Chair of Commission 7

Chair: **Mikko Uimonen**, Vice Chair of Commission 7 (Finland)

TS4.1 **David Mitchell**, **Ron Grenfell** and **Keith C. Bell** (Australia): Assessing the Suitability of Land Administration to Support Natural Resource Management at the Parcel Level

TS4.2 **M. Saandar** (Mongolia): The Cadastral Survey and Land Registration System Development in Mongolia

TS4.3 **Tor Valstad** (Norway): The Establishment of the Surveying and Mapping Authority of Kosovo?

TS4.4 **Felix Garrid Safie** and **Gracia Rosales** (El Salvador): The Modern Administration of Lands as Key of the Modernization Process in El Salvador (La administración de tierras y su importancia en el proceso de modernización en El Salvador)

TS4.5 **Arvydas Bagdonavicius** and **Romualdas Kasperavicius** (Lithuania): Development of Land Administration – Lithuanian Experience

Posters:

PP4.1 **Bruno Chabal** and **Jean-Yves Bourguignon** (France): From the Digitalized Cadastral Map toward a Vectorized one for the 3rd Contract on Computerization of the Cadastral Map on Ardeche, France (de la Grotte Chauvet au cadastre numérisé)

PP4.2 **Sergei A. Shavrov** (Belarus): Land Administration in the Republic of Belarus

PP4.3 **Eleni A. Alexopoulou** and **Chryssy A. Potsiou** (Greece): State of the Art of Real Estate in Greece and Proposal

PP4.4 **Sergey N. Volkov** (Russian Federation): Land Administration and Land Management in Russia

Monday 14 April 2003
14:00–15:30

TS 5 – Reference Frame

Venue: Amphi Navier

Coordinator: **Matt Higgins**, Chair of Commission 5

Chair: **Mikael Lilje**, Co-Chair of Working Group 5.2 (Sweden)

TS5.1 **Michel Kasser** and **Jacques Breton** (France): Necessity to Work in a Reference Frame in France

TS5.2 **A. V. Gorbov** and **N. L. Makarenko** (Russian Federation): Modern State Geodetic Frame of Russia

TS5.3 **Thierry Duquesnoy** (France): The French GPS Permanent Network

TS5.4 **Georgi Milev** and **Keranka Vassileva** (Bulgaria): GNSS and Gravity Projects in Europe and Bulgarian Participation

TS5.5 **Abdelkader Nadir Nabed**, **Bachir Gourine**, **Sid-Ahmed Benahmed Daho**, **Boualem Ghezali** and **Ali Zeggai** (Algeria): Combination of Mixed Adjustment Model and Geodetic Lines Method to Transform GPS Coordinates into National Coordinates

Posters:

PP5.1 **Tomás Soler, R. A. Snay, R. H. Foote and M. W. Cline** (USA): Maintaining Accurate Coordinates for the National CORS Network

Monday 14 April 2003

14:00–15:30

TS 6 – Current Developments in Construction Economics

Venue: Salon A

Coordinator: **Philip Shearer**, Chair of Commission 10

Chair: **Andrew Morley**, Vice Chair of Commission 10 (United Kingdom)

TS6.1 **Philip Shearer** (United Kingdom): Measurement Based Procurement of Buildings – Where We Are Now and Where We May Go

TS6.2 **Joe Martin** (United Kingdom): Performance Measurement of Time and Cost Predictability

TS6.3 **Murtala Oladapo** (Nigeria): Earned Value Management

TS6.4 **Joe Martin** (United Kingdom): e-Procurement and Extranets in the UK Construction Industry

Monday 14 April 2003

16:00–17:30

TS 7 – Best Practices in Land Administration – Technical Perspective

Venue: Amphi Cauchy

Coordinator: **Paul van der Molen**, Chair of Commission 7

Chair: **András Osskó**, Vice Chair of Commission 7 (Hungary)

TS7.1 **Ivan Pesl** (Czech Republic): Cadastre and Other Public Registers: Multipurpose Cadastre or Distributed Land Information System?

TS7.2 **Pekka Halme** (Finland): Renewal of a Land Information System in Finland

TS7.3 **Hans Knoop** (Germany) and **Wojciech Wilkowski** (Poland): Integrating Electronic Platform (IPE) as a Basic Component of Cadastral System in Poland

TS7.4 **Zoltán Forgács** (Hungary): How to Use Digital Data and Maps in Juridical Experts' Practice

TS7.5 **Bruno Morel** (France): A French Experience in Land Consolidation

Monday 14 April 2003

16:00–17:30

TS 8 – Reference Frame – Vertical Datum

Venue: Amphi Navier

Coordinator: **Adam Greenland**, Chair of Commission 4

Chair: **Adam Greenland**, Chair of Commission 4 (United Kingdom)

TS8.1 **Michel Kasser** and **Paul Bonnetain** (France): Status of the Maintenance of the NGF French National Levelling Network by GPS

TS8.2 **Ahmed El-Rabbany** (Canada): Development of a Seamless Vertical Reference System: Challenges and Opportunities

TS8.3 **Ruth Adams** (United Kingdom): Seamless Digital Data and Vertical Datums

TS8.4 **Jan Kostelecký**, **Jaroslav Šimek** and **Josef Weigel** (Czech Republic): Some Reflections on the Methodology and on Reference Frames Inherent in GPS Heighting

Monday 14 April 2003

16:00–17:30

TS 9 – New Professional Tasks – Developing the Profession

Venue: Salon A

Coordinator: **Stephen Yip**, Chair of Commission 9

Chair: **David Smejkal**, Vice Chair of Commission 9 (Czech Republic)

TS9.1 **Frances Plimmer** and **Sarah Sayce** (United Kingdom): Ethics and Professional Standards for Surveyors – Towards a Global Standard?

TS9.2 **Sarah J. Banyard**, **Sara J. Wilkinson** and **Pat Turrell** (United Kingdom): The Impact of Globalisation on Building Surveying in Europe

TS9.3 **Richard Grover** (United Kingdom): Land Markets and European Union Accession. This paper was not presented at the conference.

TS9.4 **Frances Plimmer** and **Greg McGill** (United Kingdom): Land Value Taxation: Betterment Taxation in England and the Potential for Change

TS9.5 **Saad S. Yahya** (Kenya): The Valuation of Exotics. This paper was not presented at the conference.

Tuesday 15 April 2003

11:00–12:30

TS 10 – Multi-Dimensional Approaches and New Concepts in SIM

Venue: Amphi Cauchy

Coordinator: **Gerhard Muggenhuber**, Chair of Commission 3

Chair: **Yerach Doytsher** (Israel)

Co-chair: **Robin McLaren** (United Kingdom)

TS10.1 **Bettina Petzold** (Germany): 3D City Models – Nice Toy or Basis Information of the City Council?

TS10.2 **Mauro Caprioli** and **Eufemia Tarantino** (Italy): Standards and Quality in GIS Contexts

TS10.3 **Radoš Šumrada** (Slovenia): Temporal Data and Temporal Reference Systems

TS10.4 **Juha Talvitie** (Finland): The Impact of Mobile Communication on Land Use Planning

TS10.5 **Esben Munk Sørensen** (Denmark): Centre for 3D GeoInformation – Towards a New Concept for Handling Geoinformation www.3dgi.dk

Posters:

PP10.1 **Jan Kolar** (Denmark) and **Petr Soucek** and **Ales Cepek** (Czech Republic): XML in Projects GNU Gama and 3DGI

PP10.2 **Cláudio Carneiro** (Portugal/Switzerland): Computational Methodology to Filter Raster Images in GIS Applications

PP10.3 **Kyoung-Wook Min** and **Joung-Hyun Park** (Republic of Korea): Techniques for Acquisition of Moving Object Location in LBS

PP10.4 **Do-Hyun Kim** and **Min-Soo Kim** (Republic of Korea): XML and Inter-Operability in Distributed GIS

Tuesday 15 April 2003

11:00–12:30

TS 11 – Organisational Streamlining by Customer Orientation

Venue: Amphi Navier

Coordinator: **Paul van der Molen**, Chair of Commission 7

Chair: **Martijn Rijdsijk** (Netherlands)

TS11.1 **Helge Onsrud** (Norway): Integrating the Cadastre and the Land Register in a Single Organisation in Norway

TS11.2 **Paul van der Molen** (Netherlands): Six Proven Models for Change

TS11.3 **Francis Gabele** and **Marc Vanderschueren** (Belgium): The Proactive Belgian Cadastre – In the Service of the Customer

TS11.4 **Gerhard Muggenhuber** (Austria): Geoinformation in Optimized Business Processes

TS11.5 **Ignacio Durán** (Spain): “Ensenad@ Project” – Modernising the Spanish Cadastre

Tuesday 15 April 2003

11:00–12:30

TS 12 – Standards

Venue: Salon A

Coordinator: **Matt Higgins**, Chair of Commission 5

Chair: **Rudolf Staiger**, Vice Chair of Commission 5 (Germany)

TS12.1 **Iain Greenway** (Ireland): Standards – Are They Relevant in a Surveyor's World?

TS12.2 **Vaclav Slaboch, Jiri Lechner and Miroslav Pizur** (Czech Republic): Implementation of ISO 17025:2000 in the Geodetic Metrology Laboratories and their Role in the National Metrology System

TS12.3 **David Martin, Jean-David Maillefaud and Gilles Gatta** (France): The ESRF Calibration Bench Activities

TS12.4 **Jaakko Santala and Vahur Joala** (Finland): On the Calibration of a Ground-based Laser Scanner

Posters:

PP12.1 **Michel Kasser** (France): The New Legal Text about the Precision of the Surveys for Public Administrations in France

PP12.2 **Ave Kargaja, Ina Melnikova, Natalja Liba, Tarmo Kall and Taavi Veermets** (Estonia): About Quality and Using IKONOS Satellite Image in Estonia

PP12.3 **Mikko Takalo and Paavo Rouhiainen** (Finland): On Use of FGI System Calibration Comparator

Tuesday 15 April 2003

14:00–15:30

TS 13 – State of the Art and Best Practice in SIM

Venue: Amphi Cauchy

Coordinator: **Gerhard Muggenhuber**, Chair of Commission 3

Chair: **Peter Laarakker** (The Netherlands)

TS13.1 **Keith Murray and Robert Mahoney** (United Kingdom): Interoperability in Geographic Information – Technological Idealism or Business Critical?

TS13.2 **Martin Scheu and Stefan Philipp** (Germany): Geo-Information Management in Utilities: A Posteriori Integration of Digital Cadastral Maps

TS13.3 **Chryssy Potsiou and Tassos Labropoulos** (Greece): Collection, Standardization, Visualization and Knowledge Sharing of Information about NSDI Activity in Various Countries

TS13.4 **Roy Hellesjø Mellum** (Norway): Dissemination of Environmental Data through the Web – Examples from Norway

Posters:

PP13.1 **Steve H. L. Liang** (Canada): A Distributed Geo-Spatial Infrastructure for Smart Sensor Webs. This paper was not presented at the conference.

PP13.2 **Mohammed Essadiki** and **Mohamed Ettard** (Morocco) and **Pierre Robert** (USA): Optimisation of Technical Steps of Land Consolidation Project Using a Geographic Information System: Land Reallocation Step

PP13.3 **Kari Strande** (Norway): Arealis on the Web

PP13.4 **Jan Bareš** (Czech Republic): Management of the Collection of Digital Large Scale Maps of Prague

Tuesday 15 April 2003

14:00–15:30

TS 14 – New Professional Tasks – Environmental Issues and Statutory Valuation

Venue: Amphi Navier

Coordinator: **Stephen Yip**, Chair of Commission 9

Chair: **Stephen Yip**, Chair of Commission 9 (Hong Kong SAR, China)

TS14.1 **Simon Adcock** and **Ed Young** (Australia): Addressing Environmental Issues in Valuation / Appraisal Assessments

TS14.2 **Kauko Viitanen** (Finland): Education of Valuers – Visual Explorations in Real Estate Market with Neural Networks

TS14.3 **Sevkiye Sence Turk** (Turkey): The Use of Land Acquisition Methods in Turkish Urban Areas

TS14.4 **Erwan Varillon** (France): Estimation of Industrial Polluted Soils

Posters:

PP14.1 **Jean-Michel Citeau** (France): A New Flood Control Concept in the Oise Catchment Area: Definition and Assessment of Flood Compatible Agricultural Activities

PP14.2 **Giovanni Cavaliere** (Italy): The Evolution of the Role of Surveyor in Agriculture

Tuesday 15 April 2003

14:00–15:30

TS 15 – Standards and Interoperability

Venue: Salon A

Coordinator: **Paul van der Molen**, Chair of Commission 7

Chair: **Iain Greenway**, Vice Chair of Commission 1 (Ireland)

TS15.1 **Arbind Man Tuladhar** (Netherlands): Reengineering Cadastre and Land Registration Systems and Business Opportunities

TS15.2 **Christiaan Lemmen** and **Peter van Oosterom** (Netherlands): Further Progress in the Development of a Core Cadastral Domain Model

TS15.3 **Steve Grisé** (USA) and **Jerry Johnson** (Netherlands): Delivering Multi-Purpose Cadastre Based on FIG Cadastre 2014 and ArcGIS

TS15.4 **Arie Croitoru** and **Yerach Doytsher** (Israel): Accounting for Discontinuities in Cadastral Data Accuracy: Toward a Patch-Based Approach

Tuesday 15 April 2003

16:00–17:30

TS 16 – Information Infrastructure

Venue: Amphi Cauchy

Coordinator: **Gerhard Muggenhuber**, Chair of Commission 3

Chair: **Keith Murray**, Vice Chair of Commission 3 (United Kingdom)

Co-chair: **Martin Scheu** (Germany)

TS16.1 **Emmanuel Tembo** and **Mike Manisa** (Botswana): New Developments in the Establishment of the Botswana National Spatial Data Infrastructure

TS16.2 **Domenic Scardamaglia**, **Tai O. Chan** and **Leonie Newnham** (Australia): NRE-MAP: Building and Implementing a Generic Web Browser-based Mapping Application to Meet the Requirements of a Broad Range of Corporate Stakeholders

TS16.3 **Kari Strande** (Norway): Fredskorps Exchange Programme – Co-operation on GI between Norway, Vietnam and Lao

TS16.4 **Le Quy Thuc** (Vietnam): Towards a NSDI for Vietnam

TS16.5 **Enikő Kovács** and **Tibor Király** (Hungary): Information Management at the Hungarian Land Administration by Using Internet

Tuesday 15 April 2003

16:00–17:30

TS 17 – Urbanization and Informal Settlements

Venue: Amphi Navier

Coordinator: **Paul van der Molen**, Chair of Commission 7

Chair: **Christiaan Lemmen**, Vice Chair of Commission 7 (Netherlands)

TS17.1. **Mark van den Berg** and **Peter Hoffmann** (South Africa): Development of a Cadastral and Land Management Model for Existing Informal Land Rights in South Africa

TS17.2. **Punya P. Oli** (Nepal): Poverty Reduction and Land Distribution to Kamaiya (Bonded Labour) in Nepal

TS17.3. **Richard K. Bullard** (United Kingdom) and **Sam Zhou** (Zimbabwe): Food Security Programmes

TS17.4. **Madan Mohan** (India): Land Encroachment Mapping Through GIS on the Northern Flank of Aravalli Mountain Hills – The Delhi Ridge

Posters:

PP17.1. **Jaeik Liou** (Republic of Korea): Asset-based Mapping Approaches to a Framework of Poverty Monitoring System

PP17.2 **Marie Laure Guillaume** (France): A New Tool for Urban Projects – Le Lotissement Dense

PP17.3 **Mason Sibanda** (South Africa): Rhetoric or Reality – The South African Experience of Urbanization and Informal Settlements

Tuesday 15 April 2003

16:00–17:30

TS 18 – Knowledge Sharing

Venue: Salon A

Coordinator: **Pedro Caverro**, Chair of Commission 2

Chair: **Bela Markus**, Vice Chair of Commission 2 (Hungary)

TS18.1 **Henrik Haggrén** (Finland) and **Esben Munk Sørensen** (Denmark): Commission 2 WG – Working Group Report on Virtual Academy

TS18.2 **Peter C. Nwilo** and **Dennis A. Osanwuta** (Nigeria): Knowledge Sharing as a Tool for Professional Development in Surveying and Geoinformatics in Nigeria. This paper was not presented at the conference.

TS18.3 **Frances Plimmer** (United Kingdom): Mutual Recognition of Professional Qualifications – The Next Stage

TS18.4 **Audrey Martin, Kevin Mooney, Iain Greenway and James Davey** (Ireland): The Potential of Distance Learning in Meeting the Challenges Facing National Mapping Agencies in the New Millennium

Wednesday 16 April 2003
11:00–12:30

TS 19 – Best Practice in Positioning

Venue: Amphi Cauchy

Coordinator: **Matt Higgins** Chair of Commission 5

Chair: **Michel Kasser**, Vice Chair of Commission 5 (France)

TS19.1 **Naser El-Sheimy and D. Bruce Wright** (Canada): Real Time Forest Fire Fighting through the Integration of Infrared Video, GPS and INS Systems

TS19.2 **Dek-Kie Tcha** (Republic of Korea): The Development of Wireless Network Surveying System

TS19.3 **El-Hassane Semlali, Hamid Mouatassim, Abderrahman Ardaoui and Karim Ouissoune** (Morocco): Experimental Tests with GPS RTK in the Realisation of a Project of Allotment (Platted Properties)

TS19.4 **Mauro Caprioli and Gianpiero Strisciuglio** (Italy): The Use of GPS–RTK Techniques through National GPS-GSM Network

Posters:

PP19.1 **Atinc Pirti** (Turkey): The Criteria for Selecting Reference Points in RTK GPS Survey

PP19.2 **Alain De Wulf and Denis Constales** (Belgium): Optimal Position of Total Stations for Length Measurements of a Chord

PP19.3 **Daniel Schnurr, James Kavanagh and Paul Hill** (United Kingdom): Wellington etait-il geometre? RTK GPS revele Waterloo

PP19.4 **Jean Berterreche** (France): Permanent Reference Network Project for cm-level Real Time GPS (RTK)

PP19.5 **Shaharuddin Mohd Said** (Malaysia): Evaluation of GPS RTK Performance under Tropical Trees Canopy

Wednesday 16 April 2003

11:00–12:30

TS 20 – New Professional Tasks – Marine Cadastres and Coastal Management

Venue: Amphi Navier

Coordinator: **Adam Greenland**, Chair of Commission 4

Chair: **Adam Greenland**, Chair of Commission 4 (United Kingdom)

Co-chair: **Arbind M. Tuladhar** (The Netherlands/Nepal)

TS20.1 **Michael Sutherland** (Canada): Characteristics of Marine Boundaries and Marine Boundary Information Required to Support Canadian Coastal and Marine Governance

TS20.2 **Michael Barry** (Canada), **Ina Elema** (Netherlands) and **Paul van der Molen** (Netherlands): Ocean Governance in the Netherlands North Sea

TS20.3 **M. Sigit Widodo** (Australia): The Needs for Marine Cadastre and Supports of Spatial Data Infrastructures in Marine Environment – A Case Study

TS20.4 **David Neale** (Trinidad and Tobago): The Urban Sea and Coastal Zone Management

Posters:

PP20.1 **Gérard Cosquer** and **Jean-François Hangouët** (France): Delimitation of Land and Maritime Boundaries: Geodetic and Geometric Bases

PP20.2 **Thomas Lowe** (United Kingdom): Assessing the Potential of LiDAR / Bathymetry Integration within the Thames Estuary

Wednesday 16 April 2003

11:00–12:30

TS 21 – Computer Assisted Mass Valuation and Cost Management

Venue: Salon A

Coordinator: **Stephen Yip**, Chair of Commission 9

Chair: **Simon Adcock**, Vice Chair of Commission 9 (Australia)

TS21.1 **David Smejkal** (Czech Republic): Software Support for Valuers

TS21.2 **Ruud M. Kathmann** (Netherlands): Mass Valuation in the Netherlands – From Fiscal Valuation to Multi-Purpose Valuation

TS21.3 **Medard Lucas Geho** (Tanzania): Prospects of Applying Computer Aided Mass Valuation in Tanzania

TS21.4 **Albina Aleksiene** and **Arvydas Bagdonavicius** (Lithuania): Developing and Implementing Mass Appraisal System in Lithuania

Posters:

PP21.1 **Dieter Kertscher** (Germany): The German Digital Purchase Price Collection – Maintenance, Use, Results

PP21.2 **Simon Adcock** (Australia): GIS & GPS Applications in Valuation / Appraisal Assessments

Wednesday 16 April 2003

14:00–15:30

TS 22 – Surveying in Industry and Construction

Venue: Amphi Cauchy

Coordinator: **Svend Kold Johansen**, Chair of Commission 6

Chair: **Michel Mayoud** (France)

TS22.1 **Valérie Michel, Thierry Person** and **Michel Kasser** (France): 74 Motorized Tacheometers Aiming at 5,350 Prisms in Amsterdam: The Largest Topometric Continuous Real Time Monitoring System in the World?

TS22.2 **Thomas A. Wunderlich** (Germany): Terrestrial Laser Scanners – An Important Step towards Construction Information

TS22.3 **Maria João Henriques** and **João Casaca** (Portugal): Monitoring Displacements at Large Dams by Means of Precision Traverses

TS22.4 **Raphael Goudard, Christian Lasseur** and **Dirk Mergelkuhl** (Switzerland): Digital Photogrammetry Applied to Large Physics Detectors

Posters:

PP22.1 **Albert Iavarone** and **Daina Vagners** (Canada): Sensor Fusion: Generating 3D by Combining Airborne and Tripod-mounted LIDAR Data

PP22.2 **Suren P. Bujukjan** and **Igor J. Vasyutinskiy** (Russian Federation): Videomeasuring Hydrostatic System

PP22.3 **Fengxiang Jin** and **Shifeng Ding** (China P. R.): Analysis and Application of K-L Transform Information Features

PP22.4 **Ibrahim Zeroual** and **Abdelkrim Liazid** (Algeria): Use of DLT in Photogrammetric Metrology

PP22.5 **Štefan Lukáč, Milan Žák** and **Ján Hardoš** (Slovakia): Deformation Measurements of the Most Important Structures in Slovak Nuclear Power Plants

PP22.6 **Rudolf Staiger** (Germany): Terrestrial Laser Scanning – Technology, Systems and Applications

Wednesday 16 April 2003

14:00–15:30

TS 23 – 3D Cadastres

Venue: Amphi Navier

Coordinator: **Paul van der Molen**, Chair of Commission 7

Chair: **Martin Salzmann**, Chair of Sub-WG 3D Cadastre (Netherlands)

TS23.1 **Joseph Forrai** and **Gili Kirschner** (Israel): An Interdisciplinary 3D Cadastre Development Project in Practice

TS23.2 **Tor Valstad** (Norway): The Oslo Method – A Practical Approach to Register 3D Properties

TS23.3 **Jantien E. Stoter** and **Hendrik D. Ploeger** (Netherlands): Registration of 3D Objects Crossing Parcel Boundaries

TS23.4 **André Hernandez** (Denmark): Mining Cadastre in Tanzania

Posters:

PP23.1 **Jantien Stoter** and **Ben Gorte** (Netherlands): Height in the Cadastre – Integrating Point Heights and Parcel Boundaries

Wednesday 16 April 2003

14:00–15:30

TS 24 – Education and Life-Long Learning I

Venue: Salon A

Coordinator: **Pedro Caverio**, Chair of Commission 2

Chair: **Frances Plimmer**, Vice Chair of Commission 2 (United Kingdom)

TS24.1 **Hartmut Müller** and **Peter Hotzel** (Germany): Accreditation and Life-long Learning – New Issues in Geoinformatics Education

TS24.2 **Sankaran Rajendran** (India): Higher Education in Geographical Information Technology: University Educational Programme and Its Application to State Level Planning in India

TS24.3 **Åsa Knutson** (Sweden): Changing Teaching Concept

TS24.4 **Graciela Loyácono** (Argentina): The Studies of Surveying in Latin America
(* participation of this speaker has been made possible by a grant from Leica Geosystems)

Posters:

PP24.1 **Sara J. Wilkinson** (United Kingdom): Improving Student Learning in Dissertation Research through Feedback Studies – The Sheffield Hallam Building Surveying Experience

PP24.2 **Andrea Franzini** (Italy): The Italian Surveyor in the Building Proceedings

Wednesday 16 April 2003

16:00–17:30

TS 25 e-Government and e-Citizen

Venue: Amphi Cauchy

Coordinator: **Gerhard Muggenhuber**, Chair of Commission 3

Chair: **Kari Strande**, Vice Chair of Commission 3 (Norway)

Co-chair: **Gerhard Muggenhuber**, Chair of Commission 3 (Austria)

TS25.1 **Mike Traynor** and **Robin McLaren** (Scotland, United Kingdom): e-Government in Scotland – Ticking the Box or Delivering Meaningful Services to the Citizen ?

TS25.2 **Vladimir Golubev** and **Irina Fartukova** (Russian Federation): Use of Internet – Technologies in Cadastral Works in Russia

TS25.3 **Peter Laarakker** (Netherlands) and **Stefan Gustafsson** (Sweden): EULIS – Ambitions, Bottlenecks and Policy Solutions for a European Land Information Service

TS25.4 **Raisa B. Yakovleva** (Russian Federation): Cartographic Images in Electronic Government in the Russian Federation

Wednesday 16 April 2003

16:00–17:30

TS 26 – Best Practice in Facility Management

Venue: Amphi Navier

Coordinator: **Svend Kold Johansen**, Chair of Commission 6

Chair: **Lothar Gründig**, Vice Chair of Commission 6 (Germany)

TS26.1 **Hande Demirel** (Turkey) and **Lothar Gruendig** (Germany): Multi-Scale Spatial Database Integration

TS26.2 **Andreas Rietdorf**, **Frank Gielsdorf** and **Lothar Gruendig** (Germany): Combination of Hand Measuring Methods and Scanning Techniques for CAFM – Data Acquisition

TS26.3 **Mark van den Berg** (South Africa): Development of a IT / GIS Model Designed to Help Local Municipalities in South Africa to Manage Water and Sanitation Services and for the Benefit of Poor and Rural Communities

TS26.4 **Michael F. Weir** (USA): The Next Generation GIS/LIS – A Surveys Information System Integrated within a GIS

Posters:

PP26.1 **Nizar Abo Akel**, **Ofer Zilberstein** and **Yerach Doytsher** (Israel): Automatic DTM Extraction from Dense Raw LIDAR Data in Urban Areas

PP26.2 **Frank Gielsdorf, Lothar Gruendig and Bernd Aschoff** (Germany): Geo-Referencing of Analogue Maps with Special Emphasis on Positional Accuracy Improvement Updates

PP26.3 **Radek Chromy and Petr Soucek** (Czech Republic): PhotoPa – Database of Czech Historical Monuments

PP26.4 **Mauro Caprioli and Alfredo Scognamiglio** (Italy): Photogrammetry and Laser Scanning in Surveying and 3D Modelling of Architectural Heritage

PP26.5 **Patrick Levesque** (France): Creation and Use of 3D As-built Models at EDF

Wednesday 16 April 2003
16:00–17:30

TS 27 – Education and Life-Long Learning II

Venue: Salon A

Coordinator: **Pedro Cavero**, Chair of Commission 2

Chair: **Graciela Loyácono** (Argentina)

TS27.1 **Piero Panunzi and Giuseppe Rando** (Italy): From the Updating to the Continuing Professional Development – The National Programme for the Continuing Professional Education of Surveyors

TS27.2 **Bela Markus** (Hungary): Educational Gateway Development

TS27.3 **Angina S. Prasad** (Fiji): The Surveying Challenges in the Fiji Islands

TS27.4 **Michael Barry** (South Africa/Canada) and **Jennifer Whittal** (South Africa): The Geomatics Curriculum at the University of Cape Town: A Model for Developing Countries

Posters:

PP27.1 **Linnéa Lindqvist and Jennie Nilsson** (Sweden): The Survey Program in Sweden – A Gender Perspective

PP27.2 **David Rodgers and Chris Garbett** (United Kingdom): The Development of a Masters Level, Unitised Distance Learning Framework, at Leeds Metropolitan University