

FIG REGIONAL CONFERENCE
Jakarta, Indonesia
October 3-7, 2004

TECHNICAL PROGRAMME

Monday, October 4, 2004
9:00-10:30

Opening Ceremony

Venue: Dua Mutiara II & III

- Welcome address by **Leo Nardi**
- Welcome address by Dr. **Irawan Sumarto**, Local Organising Committee
- Welcome greetings from international partners
 - Prof. **Gerhard Beutler**, President of the International Association of Geodesy
 - Prof. **Yu Changxing**, President of the International Society for Mine Surveying, ISM
 - Prof. **Ferjan Ormeling**, Secretary General of the International Cartographic Association, ICA
- Ir. **Rudolf W. Matindas**, M.Sc., Head of BAKOSURTANAL: The Contribution of Geospatial Data in Resolving Regional Issues
- Prof. Dr. **Dorodjatun Kuntjoro-Jakti**, Coordinating Minister for Economic Affairs: Keynote Address
- Univ.-Prof. **Holger Magel**, President of FIG: Surveying the Future - Challenges for the Economic, Environmental and Social Development in Urban and Rural Areas
- Opening of the Conference by Univ.-Prof. **Holger Magel**, President of FIG
- Opening of the technical exhibition

Monday, October 4, 2004
11:00-12:00

Plenary Session 1 – Surveying the Future – Indonesian Contributions

Venue: Dua Mutiara II & III

Chair: **Ken Allred**, Vice President Elect of FIG, Canada

Rapporteur: **Stephen Yip**, Chair of FIG Commission 9, Hong Kong SAR, China

PS1.1 Prof. Ir. **Lutfi Ibrahim Nasution**, PhD, National Land Agency, Republic of Indonesia (BPN), Indonesia: Status of the Implementation of the Bogor Declaration, presented by **Chaerul Basri Ahmad**, Deputy for Land Information; BPN

PS1.2 **Suharno, S.H.**, MPM., Dr. Ir. **Bambang Edhi Leksono**, M. Sc. and Ir. **Iwan Kurniawan**, M. App. Sc., Department of Geodesy, ITB, Indonesia: Towards the Accomplishment of Single Identification Number in Indonesia

Monday, October 4, 2004

13:30-15:00

TS 1 – Land Administration and Housing Issues in Informal Environments

Venue: Dua Mutiara I

Commission: 7, 8 and 10

Chair: **Tony S. Haroen**, National Land Agency, Indonesia

Rapporteur: **Paul van der Molen**, Chair of Commission 7, The Netherlands

TS1.1 **András Osskó** (Hungary): Creation Land Administration in Formal and Informal Environment

TS1.2 **Wafula Nabutola** (Kenya): Affordable Housing in Kenya: A Case Study of Policy on Informal Settlements

TS1.3 **Stephen Djaba** (Ghana): Proposed Urban Land Information Management Systems in Ghana

TS1.4 **Herman Soesangobeng** (Indonesia): The Possibility and Mode of Registering Adat Title on Land

TS1.5 **Christopher Sanga** (Tanzania): Land Sector as an Impediment to Mortgage Lending in Tanzania. This paper has not been presented at the conference.

TS 2– Spatial Information Management Promoting Sustainable Development

Venue: Dua Mutiara II

Commission: 3

Chair: **Moh. Dimiyati**, Department of Regional for Settlement and Infrastructure (Kimpraswil), Indonesia

Rapporteur: **Gerhard Muggenhuber**, Chair of FIG Commission 3, Austria

TS2.1 **Aris Poniman, Nurwadjadi and Pago Lumban-Tobing** (Indonesia): Developing the National Land Resource Database for Supporting Spatial Land Use Planning

TS2.2 **Puntodewo and Radjiman Nataprawira** (Indonesia): Indonesian Geospatial Data Clearinghouse, presented by **Bebas Purnawan**, Indonesia

TS2.3 **Dodi Sukmayadi, Fahmi Amhar, Agung Adhibroto and Agus Prijanto** (Indonesia): Geo-Spatial Database Design and Implementation at the Mapping Center for Topographic & Spatial Arrangement (PDRTR) of BAKOSURTANAL

TS2.4 **Rabin K. Sharma and Babu Ram Acharya** (Nepal): Spatial Data Infrastructure for Prosperous Nepal. This paper has not been presented at the conference.

TS 3 – Professionalism in Surveying and Commitment to the Society

Venue: Dua Mutiara III

Commission: 1

Chair: **Dietmar Sperling**, Germany

Rapporteur: **Michael Keller**, Switzerland

TS3.1 **Michael Keller** (Switzerland): International Treaties and Consultancy - and Their Effect on Land Management in Developing Countries. What is the Role of FIG?

TS3.2 **Agus H. Atmadilaga** and **Bebas Purnawan** (Indonesia): Certification of Surveyors in the Indonesian Surveyors Association (ISA)

TS3.3 **Bob Curley** and **Spike Boydell** (Fiji): The Regulation, Registration and Representation of Surveyors in the Pacific Islands Countries

Monday, October 4, 2004

15:30-17:00

TS 4 – Spatial Planning and the Community

Venue: Dua Mutiara I

Commission: 8

Chair: **Diane Dumashie**, Chair of FIG Commission 8, United Kingdom

Rapporteur: **Spike Boydell**, Chair Elect of Commission 8, Fiji

TS4.1 **Spike Boydell** (Fiji) and **Matt McIntyre** (Samoa): Planning for Sustainable Community Lifestyles – A Pacific Perspective

TS4.2 **Jaeik Liou** (Republic of Korea): Community Capacity Building to Strengthen Socio-Economic Development with Spatial Asset Mapping

TS4.3 **Rabin K. Sharma** and **Babu Ram Acharya** (Nepal): Approach to Promoting Decentralized Land Management in Nepal. This paper has not been presented at the conference.

TS 5 – e-Land Administration and e-Government

Venue: Dua Mutiara II

Commission: 7 and 3

Chair: **Dudung Muhaly Hakim**, Department of Geodesy, ITB, Indonesia

Rapporteur: **András Osskó**, Chair Elect Commission 7, Hungary

TS5.1 **Christiaan Lemmen** and **Paul van der Molen** (The Netherlands) and **Gerda Schennach** (Austria): e-Land Administration: An International Seminar in Innsbruck

TS5.2 **Esben Munk Sørensen** (Denmark): Reorganizing Public Access to Property Information by Remodelling and Standardization

TS5.3 **Puntodewo, Bebas Purnawan and Sri Kusno Gularso** (Indonesia): The Status of On-Line Mapping Development in Indonesia

TS 6 – Engineering Surveys

Venue: Dua Mutiara III

Commission: 6 and 5

Chair: **Sumaryo**, Department of Geodesy - UGM, Indonesia

Rapporteur: **Ken Allred**, Vice President Elect of FIG, Canada

TS6.1 **Yu Changxing**, President of International Society for Mine Surveying, ISM (China, P.R.): Two New Fields of Mine Surveying

TS6.2 **Wiweka, Aniati Murni and M. Natsir** (Indonesia): Segmentation Analysis of Hyperspectral Data in Green and Road Infrastructures. This paper has not been presented at the conference.

TS6.3 **Samsul Hadi, Miftah Ruyani and T. A. Sanny** (Indonesia): Engineering Survey of Under Ground Utilities Blok M– Kota in DKI Jakarta. This paper has been presented by **Indra Sinaga**, Indonesia.

TS6.4 **Rochman Djaja, Jacob Rais, Hasanuddin Z Abidin and Wedyanto Kuntjoro** (Indonesia): Land Subsidence of Jakarta Metropolitan Area

TS6.5 **Joel I. Igbokwe** (Nigeria): Mapping of Regional Transportation Network with Medium Resolution Satellite Imagery

Monday, October 4, 2004

17:15-18:15

Plenary Session 2 – Surveying the Future – Infrastructures

Venue: Dua Mutiara II

Chair: Univ.-Prof. **Holger Magel**, President of FIG

Rapporteur: **Ken Allred**, Vice President Elect of FIG, Canada

PS2.1 Univ.-Prof. **Gerhard Beutler**, President of IAG: Geodetic Infrastructure and GNSS Developments – Basic Facts for Surveying Engineering and Policy Makers

Tuesday, October 5, 2004
9:00-10:00

Plenary Session 3 – Contributions to the Sustainable Future by Spatial Information Management

Venue: Dua Mutiara II

Chair: **Sukendra Martha**, Indonesia

Rapporteur: **G. K. (Ken) Allred**, Elected Vice President of FIG, Canada

PS3.1 Mr. **Pengiran Haji Matusin Matasan**, Surveyor General, Survey Department of Brunei Darussalam and PCGIAP Executive Board Member on behalf of Mr. **Peter Holland**, President of Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP): Overview on PCGIAP Activities and the Asia/Pacific Region

PS3.2 **Aris Poniman**, BAKOSURTANAL, Indonesia: Spatial Database Integration, presented by **Erik van der Zee**, Indonesia

Tuesday, October 5, 2004
10:30-12:00

TS 7 – Urban and Rural Land Management

Venue: Dua Mutiara I

Commission: 7 and 8

Chair: **Bangun Mulyo Sukoco**, ITS, Indonesia

Rapporteur: **Esben Munk Sørensen**, Denmark

TS7.1 **Bruce Keith** and **Charles Cowap** (United Kingdom): Recent Developments in Rural Land Administration in England, UK

TS7.2 **Charles Cowap** and **Bruce Keith** (United Kingdom): Land Management in England (UK) – Development Lessons in the Context of a Hierarchy of Human Needs

TS7.3 **Bela Markus** (Hungary): GI Support for Land Consolidation

TS7.4 **Simon Adcock** (Australia): The Importance of Considering Alternative Uses and Methodology When Valuing/Appraising Contaminated Sites

TS7.5 **Waljiyanto, Nurrohmat Widjajanti** and **Waruno Suryohadi** (Indonesia): Application of Finite Difference Method to Develop Land Value Map

TS7.6 **Sarah Blandy** and **David Parsons** (United Kingdom): Affordable Housing and the Private Residential Market

TS 8 – Reference Frame in Practice

Venue: Dua Mutiara II

Commission: 5

Chair: **Hasanuddin Z. Abidin**, Department of Geodesy-ITB, Indonesia

Rapporteur: TBA

TS8.1 **Cecep Subarya** (Indonesia): The Maintenance of Indonesia Geodetic Control Network in the Earth Deforming Zones

TS8.2 **Kosasih Prijatna** (Indonesia): A Local Quasigeoid Determination Approach for Jawa Island (Indonesia)

TS8.3 **Muhamad Kundarto** and **Sari Virgawati** (Indonesia): Grid System Modification on Land Resources Survey for Agricultural Development

TS 9 – Marine Cadastre and Coastal Zone Management

Venue: Dua Mutiara III

Commission: 4 and 7

Chair: **Adam Greenland**, Chair of FIG Commission 4, United Kingdom

Rapporteur: **Budi Sulistio**, Department of Marine and Fisheries, Indonesia

TS9.1 **Johanes P. Tamtomo** (Indonesia): The Needs for Building Concept and Authorizing Implementation of Marine Cadastre in Indonesia

TS9.2 **M. Sigit Widodo** (Indonesia): Relationship of Marine Cadastre and Marine Spatial Planning in Indonesia

TS9.3 **Nuraini Rahma Hanifa, Eka Djunarsjah** and **Ketut Wikantika** (Indonesia): Reconstruction of Maritime Boundary between Indonesia and Singapore Using Landsat-ETM Satellite Image. This paper has not been presented at the conference.

Tuesday, October 5, 2004

13:30-15:00

TS 10 – Developing Land Administration Systems

Venue: Dua Mutiara I

Commission: 7

Chair: **Erna Heryani**, National Land Agency, Indonesia

Rapporteur: **Tor Valstad**, Norway

TS10.1 **Kate Dalrymple, Jude Wallace** and **Ian Williamson** (Australia): Innovations in Rural Land Policy and Tenure in Southeast Asia, presented by **Sigit Widodo**, Indonesia

TS10.2 **Chairul Basri Achmad** (Indonesia): Building Physical Cadastre: A New Approach for Speeding-up the Land Registration Processes in Indonesia

TS10.3 **M. Tony S. Haroen, Embun Sari, Kalvin Sembiring, Budiyo** and **Ketut Ari Sucaya** (Indonesia): Cadastral Systems in Jakarta – Building the Spirit of the Road to a Spatial Data Infrastructure

TS10.4 **Punya Prasad Oli** (Nepal): Ups and Down of Nepalese Cadastre. This paper has not been presented at the conference.

TS10.5 **Paul van der Molen** (The Netherlands): Some Micro Economic Aspects of Land Ownership

TS10.6 **Ghazali Desa** and **Majid Kadir** (Malaysia): The Social and Economic Impacts of Coordinated Cadastral System Implementations in Peninsular Malaysia. This paper has not been presented at the conference.

TS 11 – Professional Education Venue: Dua Mutiara II
Commission: 2

Chair: **Lukman T. Aziz**, Department of Geodesy - ITB, Indonesia

Rapporteur: **Bela Markus**, Chair Elect of FIG Commission 2, Hungary

TS11.1 **Bela Markus** (Hungary): Future Education - FIG Commission 2 Perspectives

TS11.2 **Ferjan Ormeling** (The Netherlands): Map Use Education and Geovisualisation

TS11.3 **Soun Sopha** (Cambodia) and **Pertti Onkalo** (Finland): Development of Curriculum for the Land Management and Land Tenure Programs in Cambodia

TS11.4 **Stig Enemark** (Denmark): Building the Competences of the Future. Designing and Implementing a New Curricula in Surveying at Aalborg University, Denmark

TS11.5 **Francis A. Fajemirokun** and **Olusegun T. Badejo** (Nigeria): A New Curriculum for Surveying Education in Nigeria

TS 12 Panel Discussion – What Services FIG, IAG and PCGIAP Should Provide to Asia and the Pacific

Venue: Dua Mutiara III

Commission: 4, 5, 6

Chair: **Ken Allred**, Vice President Elect of FIG, Canada

Rapporteur: **Adam Greenland**, Chair of FIG Commission 4, United Kingdom

Introduction remarks:

- **Dr. Azhari bin Mohamed**, Dept. of Survey and Mapping Malaysia, on behalf of **Dato Hamid Ali**, Director General, Dept of Survey and Mapping Malaysia, Executive Board Member of PCGIAP: Introduction Remarks
- **Bebas Purnawan** and **Cecep Subarya**, Bakosurtanal, Indonesia
- **Dr. Hasanuddin Z. Abidin**, Jurusan Teknik Geodesi-ITB, Indonesia, representative of the academic institutions
- **Dr. Gerhard Beutler**, President of IAG
- **Adam Greenland**, Chair of FIG Commission 4

Tuesday, October 5, 2004

15:30-17:00

TS 13 – Land Administration in Post-Conflict Areas

Venue: Dua Mutiara I

Commission: 7

Chair: **Irawan Sumarto**, Department of Geodesy - ITB, Indonesia

Rapporteur: **András Osskó**, Chair Elect of Commission 7, Hungary

TS13.1 **Paul van der Molen** and **Christiaan Lemmen** (The Netherlands): Land Administration in Post Conflict Areas

TS13.2 **Tor Valstad** (Norway): Institution Building in Kosovo – Failure or Success?

TS13.3 **Jennifer Whittal** (South Africa) and **Michael Barry** (Canada): Fiscal Cadastral Reform and the Implementation of CAMA in Cape Town

TS 13.4 **John Blair** (Canada): Land Titling in Cambodia – Overcoming Land Mine Issues, presented by **Francisco Gonçalves**, Indonesia

TS13.5 **Benjamin E. Kesi Prah** (Ghana): The Cadastral LIS as a Tool for Conflict Resolution in Rural Communities of Ghana – A Case Study, presented by **Stephen Djaba**, Ghana

TS 14 – Positioning and Measurement – GNSS Applications

Venue: Dua Mutiara II

Commission: 5

Chair: **Cecep Subarya**, BAKOSURTANAL, Indonesia

Rapporteur: **Pago Lumban-Tobing**, BAKOSURTANAL, Indonesia

TS14.1 **Vincent Lui** (Hong Kong SAR, China): An Innovative Concept to Manage GPS Reference Stations Network and RTK Data Distribution Globally

TS14.2 **Israel Quintanilla García, José Luis Berné-Valero, Aurea Gallego Salguero** and **Juan Ignacio Latorre Romero** (Spain): Analysis of the Track Competition Vehicles with High Accuracy Positioning

TS14.3 **Mustafa D. Subari** and **Khairudin Anuar** (Malaysia): Experiencing the Use of GPS-RTK for Cadastre Surveys in Malaysia

TS14.4 **Israel Quintanilla García, Cuenca Carlos Sancho** and **José Luis Berné-Valero** (Spain): Design of Couriers Optimising System with Storage and Transportation Recognizement and Special Tracking

TS14.5 **Andrew Hunter, Naser El-Sheimy** and **Gordon Stenhouse** (Canada): Grizzly Camera for Habitat Use Analysis. This paper has not been presented at the conference.

TS 15 – Hydrography

Venue: Dua Mutiara III

Commission: 4

Chair: **Agus Santoso**, BAKOSURTANAL, Indonesia

Rapporteur: **Adam Greenland**, Chair of FIG Commission 4, United Kingdom

TS15.1 **Poerbandono** (Indonesia) and **Roberto Mayerle** (Germany): Assessment of Approaches for Converting Acoustic Echo Intensity into Suspended Sediment Concentration

TS15.2 **Abdul Basith** (Indonesia): Tidal Solution along Topex/Poseidon Track Near Prigi Tidal Station

TS15.3 **Mustafa D Subari** and **M. Saupi Che Awang** (Malaysia): GNSS Radiobeacon Service Availability Study: The SISPELSAT

TS15.4 **Kenneth Barbor** (USA): The International Hydrographic Organization Posturing for the Future. This paper was not presented in the conference.

TS15.5 **Rushi Ridwan** (Indonesia): Hydrographic Activities of the Indonesian Hydrographic Office

Tuesday, October 5, 2004

17:15-18:15

Plenary Session 4 – Developing Asia and the Pacific – The World Bank Financed Land Administration Projects and Principles

Venue: Dua Mutiara II

Chair: **Paul van der Molen**, Chair of FIG Commission 7, The Netherlands

Rapporteur: **Keith Bell**, Land Sector Coordinator for East Asia Pacific Region, World Bank, EASRD

Introduction Remarks

PS4.1 **Stig Enemark** (Denmark): Capacity Assessment and Development for Sustainable Land Administration Infrastructures

PS4.2 **Keith Bell**, Land Sector Coordinator for East Asia Pacific Region, World Bank: Land Policies and Overall Development Agenda in East Asia (Indonesia, Lao, Cambodia, Vietnam, Philippines, Thailand and China)

Case Studies

PS4.3 **Erna Heryani** (Indonesia) and **Chris Grant** (Australia): Land Administration in Indonesia

PS4.4 **Lor Davuth** (Cambodia) and **Pertti Onkalo** (Finland): Community Participation Supporting Cost Effective Surveying Methods

Wednesday, October 6, 2004

9:00-10:00

Plenary Session 5 – Enhancing the Surveying Profession

Venue: Dua Mutiara II

Chair: Prof. **Bela Markus**, Chair Elect of FIG Commission 2, Hungary

Rapporteur: Prof. **Stig Enemark**, Elected Vice President of FIG, Denmark

PS5.1 Prof. **Stig Enemark**, Vice President Elect of FIG, Denmark: Mutual Recognition of Professional Qualifications - Developing a Concept Tailored for the Surveying Profession

PS5.2 **Frances Plimmer** (United Kingdom): Mutual Recognition of Professional Qualifications: The European Union System. This paper has not been presented at the conference.

PS5.3 **Teo Chee Hai**, Association of Authorised Land Surveyors Malaysia and **M. Nagarajan**, Ministry of International Trade and Industry Malaysia: Mutual Recognition of Surveying Qualification within the ASEAN Framework Agreement on Services

Wednesday, October 6, 2004

10:30-12:00

TS 16 – Disaster Management

Venue: Dua Mutiara I

Commission: 8, 5, 6 and 3

Chair: **Spike Boydell**, Chair Elect of FIG Commission 8, United Kingdom

Rapporteur: **Nurwajedi**, BAKOSURTANAL, Indonesia

TS16.1 **Reinfried Mansberger** and **Gerhard Muggenhuber** (Austria): Spatial Information for Risk Management

TS16.2 **Frank Friesecke** (Germany): Precautionary and Sustainable Flood Protection in Germany – Strategies and Instruments of Spatial Planning

TS16.3 **G. K. (Ken) Allred** (Canada): Underground Facilities –The Need for Accurate Records in an Expanding Society

TS16.4 **Wafula Nabutola** (Kenya): Risk and Disaster Management – A Case Study in Nairobi, Kenya

TS16.5 **Hasanuddin Z. Abidin**, **Rochman Djaja**, **H. Andreas** and **M. Gamal** (Indonesia) and **K. Hirose** and **Y. Maruyama** (Japan): Capabilities and Constraints of Geodetic Techniques for Monitoring Land Subsidence in the Urban Areas of Indonesia

TS 17 – GNSS Data Processing

Venue: Dua Mutiara II

Commission: 5

Chair: TBA

Rapporteur: TBA

TS17.1 **Md Nor Kamarudin** and **Zulkarnaini Mat Amin** (Malaysia): Multipath Error Detection Using Different GPS Receiver's Antenna

TS17.2 **Wang Shuang-xi** and **Xu Jian** (China): Using Float Ambiguities with Application to Decimeter-level – Real-time Kinematic Positioning. This paper has not been presented at the conference.

TS17.3 **Agustan** and **W. E. Featherstone** (Indonesia): Reprocessing the Western Australian Statefix Geodetic GPS Network Using Commercial Software. This paper has not been presented at the conference.

TS17.4 **Tayeb Tachallaït, El Hassan Benaïm, Mohamed Boulmers** and **Mohamed El Gaaidi** (Morocco): Developpement d'une Nouvelle Methode de Traitement des Observations GPS. This paper has not been presented at the conference.

TS 18 – Workshop on Mutual Recognition

Venue: Dua Mutiara III

Chair: Prof. **Stig Enemark**, Vice President Elect of FIG, Denmark

Rapporteur: **Diah Kirana**, BAKOSURTANAL, Indonesia

Introduction remarks:

- **Teo Chee Hai**, Secretary General of ASEAN FLAG
- **Stig Enemark**, Vice President Elect of FIG
- **G.K. (Ken) Allred**, Canada: Mutual Recognition from the American and NAFTA Perspective

Wednesday, October 6, 2004

13:30-15:00

TS 19 – Disaster Management – Technical Solutions and Case Studies

Venue: Dua Mutiara I

Commission: 5, 6, 3 and 8

Chair: **Diane Dumashie**, Chair of FIG Commission 8, United Kingdom

Rapporteur: **Frank Friesecke**, Germany

TS19.1 **B Santoso Dipokusumo** and **T. Lukman Aziz** (Indonesia): The Use of Small Format Aerial Photography in Disaster Management (Case of Cililin Area Landslide in West Jawa)

TS19.2 **Craig Roberts, Cedric Seynat, Chris Rizos and Graeme Hooper** (Australia): Low-cost Deformation Measurement System for Volcano Monitoring. This paper has not been presented at the conference.

TS19.3 **Hsing-Chung Chang, Linlin Ge and Chris Rizos** (Australia): Environmental Impact Assessment of Mining Subsidence by Using Spaceborne Radar Interferometry. This paper has not been presented at the conference.

TS19.4 **Pham Viet Hoa** (Vietnam): Use of Remote Sensing and GIS Technology for Monitoring and Assessment of Flooding Status at the Coastal Zone in the Central Part of Vietnam. This paper has not been presented at the conference.

TS 20 – The Integration of SIM for Customers Benefit

Venue: Dua Mutiara II

Commission: 3

Chair: **Nana Supriyatna**, Army Topographic Directorate, Indonesia

Rapporteur: **Kari Strande**, Norway

TS20.1 **Andrew Bashfield** (Australia): Map Your Files and File Your Maps: Managing the Infrastructure Data that GIS Can't Manage. This paper has not been presented in the conference.

TS20.2 **Humayun Sarkar** (India): Study of Landcover and Population Density Influences on Urban Heat Island in Tropical Cities by Using Remote Sensing and GIS: A Methodological Consideration

TS20.3 **Zainal Abdul Majeed** (Malaysia) and **David Parker** (United Kingdom): Geographic Information System (GIS) for Managing Survey Data to the Development of GIS-Ready Information. This paper has not been presented in the conference.

TS20.4 **Wiwin Ambarwulan and T. W. Hobma** (Indonesia): Bio-optical Model for Mapping Spatial Distribution of Total Suspended Matter from Satellite Imagery

TS20.5 **Hadi Purwanto and M. Nurandi** (Indonesia): Web-GIS & Spatial Information System for Oil & Gas Trunk Line Management: A Distributed and Real-Time System and Monitoring. This paper has not been presented in the conference.

TS 21 – Valuation and Taxation

Venue: Dua Mutiara III

Commission: 9 and 7

Chair: **Subaryono**, Dept of Geodesy, UGM, Indonesia

Rapporteur: **Simon Adcock**, Vice Chair of FIG Commission 9, Australia

TS21.1 **Simon Adcock** (Australia): A Global Commercial Lease for a New Century

TS21.2 **Heri Sutanta and Sularno** (Indonesia): A Prototype of SVG Map of Land and Building Tax Objects in Indonesia

TS21.3 **Riantini Virtriana, Iwan Kurniawan** and **Bambang Edhi Leksono** (Indonesia): A Model of Single Value of Property for Multipurposes (SVMP) Based on Government's Tax Value Approach – Case of Antapani Kidul Housing, Municipality of Bandung, Indonesia

TS21.4 **Firman Hadi, Ketut Wikantika** and **Irawan Sumarto** (Indonesia): Implementation of Forest Canopy Density Model to Monitor Forest Fragmentation in Mt. Simpang and Mt. Tilu Nature Reserves, West Java, Indonesia

TS21.5 **Subaryono** and **Lukito E.N.** (Indonesia): Assessment of the Development of Land Information Systems in the Directorate of Land and Building Taxes Ministry of Finance Republic of Indonesia. This paper has not been presented at the conference.

TS21.6 **Subaryono** and **Rochmad Muryanto** (Indonesia): Assessing the Potential of Land and Building Tax Database as a Basis for Developing Multipurpose Land Information Systems in Indonesia. This paper has not been presented at the conference.

TS21.7 **Kauko Viitanen** (Finland): Compulsory Purchase as an Administrative Procedure - Based on Finnish Legislation and Experiences. This paper has not been presented at the conference.

Wednesday, October 6, 2004
15:30-17:00

TS 22 – New Development and Applications for Imagery

Venue: Dua Mutiara I

Commission: 5, 3 and 7

Chair: **Dodi Sukmayadi**, BAKOSURTANAL, Indonesia

Rapporteur: **Arifin Tjekiagus**, PT EXSA, Indonesia

TS22.1 **Firman Hadi, Ketut Wikantika, Oki Gumilar** and **Irawan Sumarto** (Indonesia): The Assessment of Atmospheric Correction in Landsat-TM Due to Topographic Effects

TS22.2 **Sugianto, Ray Merton**, and **Shawn Laffan** (Australia): An Overview of the CHRIS/PROBA Mission: A New Generation of Multi-Angle Hyperspectral Remote Sensing and Its Application to Agriculture

TS22.3 **Catur Aries Rokhmana** (Indonesia): Some Enhancement in Processing Aerial Videography Data for 3D Corridor Mapping

TS22.4 **Halim Setan, Mohd Sharuddin Ibrahim** and **Ismail Ma'arof** (Malaysia): Applications of Digital Photogrammetric Systems for Dimensional Measurement and 3D Modelling

TS22.5 **Sugianto, Ray Merton, Shawn Laffan** and **Jon Huntington** (Australia): A Multi-Angular and Multi-Temporal Study Using CHRIS Hyperspectral Imagery

TS22.6 **Halim Setan, Zulkepli Majid and Deni Suwardi** (Malaysia): The Development of Image Capturing System and Information System for Craniofacial Reconstruction

TS22.7 **Håkon Andresen** (Norway/Indonesia): Efficient and Well-Documented Digital Orthophoto Production from Airborne Photogrammetry

TS 23 – Applied Spatial Information Management

Venue: Dua Mutiara II

Commission: 3

Chair: **Irawan Sumarto**, Dept. of Geodesy, ITB, Indonesia

Rapporteur: **Kari Strande**, Vice Chair of FIG Commission 3, Norway

TS23.1 **Heri Sutanta and Sularno** (Indonesia): A Prototype of SVG Map of Land and Building Tax Objects in Indonesia. This paper has not been presented at the conference.

TS23.2 **Subaryono and Lukito E.N.** (Indonesia): Assessment of the Development of Land Information Systems in the Directorate of Land and Building Taxes Ministry of Finance Republic of Indonesia. This paper has not been presented at the conference.

TS23.3 **Subaryono and Rochmad Muryamto** (Indonesia): Assessing the Potential of Land and Building Tax Database as a Basis for Developing Multipurpose Land Information Systems in Indonesia

TS23.4 **Wikanti Asriningrum** (Indonesia): Geomorphological Approach to Identifying Small Island Characteristics Using Landsat Data – Case Study: Pari and Belakngsedih Archipelago. This paper has not been presented at the conference.

TS 24 – Different Perspectives to Surveying

Venue: Dua Mutiara III

Chair: **Nurwadjadi**, BAKOSURTANAL, Indonesia

Rapporteur: **Ken Allred**, Vice President Elect of FIG, Canada

TS24.1 **John Brock** (Australia): Cook-Bligh-Flinders-King: The Quadrilogy of Master Mariners

TS24.2 **John Brock** (Australia): Hollywood Movie Surveyors: The “R” Rated Version

Wednesday, October 6, 2004

17:15-18:15

Closing Ceremony

Venue: Dua Mutiara II

Chair: Dr. **Sobar Sutisna**, President of the Indonesian Surveyors Association

Univ.-Prof. Dr.-Ing. **Holger Magel**, President of FIG: Summary of the 3rd FIG Regional Conference and the Jakarta Statement