

The 10th South-East Asia Survey Congress, Bali, Indonesia



The 10th SEASC 2009, 4th-6th August in Bali was successfully organized by BAKOSURTANAL in collaboration with AFLAG. The theme of the Conference was “Integrating Geo-Information Islands” – very relevant taking into account the host Indonesia is the largest island archipelago.

Despite the H1N1 pandemic which gripped the region, The Congress was well attended domestically, regionally as well as internationally. Several international organisations and associations also supported the organizers to make the conference more meaningful. The plenary and technical sessions touched on current practices and technologies. There was a Technical Exhibition.



Mr See Seng Guan, AFLAG President with Pak Rudolf Matindas of Barksurtanal

At the Opening Ceremony, The President of AFLAG Mr See Seng Guan addressed the Conference. •

During the Conference, AFLAG held their Biennial General Meeting. An important item on the agenda was the election of the new AFLAG Council. Drs Diah Kirana Kresnawati, Indonesia, assumed the presidency, taking over from Mr See Seng Guan, Singapore. Pak Ady S Ruchiatan was elected General Secretary, taking over from Mr Gerry Ong of Singapore, while Mr Tang Tuck Kim of Singapore took over the post of Honorary Treasurer from Mr Saharuddin bin Saat of Malaysia. •



AFLAG President with Council Members 2009/2011

PRESIDENT'S MESSAGE



Dear Colleagues,

Welcome to the ASEAN Federation of Land Surveying and Geomatics (ASEANFLAG) Newsletter, an important vehicle for carrying news of ASEANFLAG activities where readers can share related activities, issues and other experience among ASEANFLAG member countries and other international association.

I wish to express my heartfelt gratitude and appreciation for the confidence members of AFLAG for electing as AFLAG President, a first lady president, during The 10th SEAS Congress in Bali in August 2009. It is indeed an honour for both me and Indonesia. I strongly endeavour to bring AFLAG forward as had my predecessors before me.

On reflection, the year had passed with many notable events. On behalf of ASEANFLAG, I would like to congratulate Mr. Teo Chee Hai as the President-Elect of FIG for 2011-2014. I would also congratulate Malaysia who will be hosting the next FIG Congress in 2014. We are proud of this ‘Malaysian double’ at the recent FIG Congress 2010 in Sydney Australia.

Those AFLAG Members present at The

Congress must have been definitely overwhelmed. As the President of ASEANFLAG, I would like to thank Dr Wicha Jiwalai, AFLAG Senior Vice-President and Surveying and Mapping Society, Thailand for hosting the 37th AFLAG Council Meeting and Technical Seminar in Bangkok in December 2009.

I also extend AFLAG thanks to the Geodetic Engineers of the Philippines for their kind hospitality when hosting the 38th ASEANFLAG Council Meeting and also giving the opportunity to AFLAG to participate in their 22nd Annual Regional Convention at Intercontinental Hotel Makati, the Philippines.

The 39th ASEANFLAG Council Meeting will be held on 3rd August at Centrepont Hotel, Bandar Seri Begawan, Brunei Darussalam. This will also include “Geomatics - Basis for Development Seminar (UTAP)” organized by The Survey Department Brunei Darussalam. I hope that AFLAG Meeting will become a more interesting forum for our members to get more generative discussion and also contribution for other matters among member countries.

This is our Newsletter, so let's make it useful to us and our community. Your contribution is very much appreciated. Happy Reading!

Drs Diah Kirana Kresnawati
ASEANFLAG President

Editorial

Greetings Dear Friends and Colleagues,

Welcome to the 2nd issue of The ASEAN FLAG Newsletter. We are pleased to introduce our new President Drs Diah Kirana Kresnawati and General Secretary Ady S Ruchiatan.

With their vast experience and leadership, we are certain that they will be able to lead ASEAN FLAG to another level.

As well as reporting on the significant events of the last 12 months, it is also our pleasure to highlight, and to look forward with anticipation to our upcoming events.

The most significant is the election of our AFLAG Council Member, Mr Teo Chee Hai, as The President-Elect of The FIG for the term 2011-2014. Many congratulations.

The editors highly appreciate your articles and photographs for the Newsletter.

We certainly look forward to future contributions. We welcome your comments.

Thank you. Happy reading

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AFLAG President Diah Kirana Kresnawati chairing the 35th Council Meeting

Liberalization of Trade in Services and the ASEAN Economic Community

The Business Services Sectoral Working Group held its Meeting on 10 March 2010 in Bandar Seri Begawan, Brunei Darussalam back-to-back with the 60th Meeting of the ASEAN Coordinating Committee on Services (CCS).

The Meeting was attended by representatives from Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Philippines, Singapore, and Viet Nam. The Meeting was also attended by the representatives from ASEAN Federation of Accountants (AFA) and, for the first time, ASEAN Federation of Land Surveying and Geomatics (ASEAN FLAG, represented by Diah Kirana, Teo Chee Hai and Pg Matusin Matasan) was invited. The Meeting was chaired by Mr Chin Jen Chyi from Singapore and the secretarial support was provided by Ms. Yuanita Ruchyat from the ASEAN Secretariat.

The Meeting adopted the agenda which included:

- 1) MUTUAL RECOGNITION ARRANGEMENTS (MRA)
 - The Meeting noted the presentation from the President of ASEAN FLAG
 - The Meeting discussed on the progress of the MRA in relation to the activities of ASEAN FLAG. ASEAN FLAG were of the view that the Framework MRAs for their respective sectors are different from the MRA on Engineering Services and Architecture as it was meant to provide a platform for bilateral MRAs. Therefore the Member States can take a different approach in implementation. However, ASEAN FLAG agreed to support and facilitate the implementation of the bilateral MRAs for their respective sectors and will continue to assume an active role to work towards the realisation of mobility of natural person in ASEAN.
- 2) LICENSING AND REGISTRATION RULES FOR PROFESSIONAL SERVICES
 - In order to achieve the completion of licensing and registration rules for professional services compilation exercise, ASEANFLAG agreed to coordinate the compilation as tasked by the Meeting, and agreed to submit the complete list before the next meeting.
- 3) PROFESSIONAL EXCHANGE PROGRAMME
 - The Meeting requested if ASEAN FLAG could consider on having some of the exchange to come under the ASEAN exchange programme.
- 4) ASEAN DISCIPLINES ON DOMESTIC REGULATION IN THE PROFESSIONAL SERVICES
 - The Meeting discussed the possibility in adapting the WTO disciplines for each of the professional services. The Meeting requested ASEAN Secretariat to surface

38th ASEAN- FLAG Council Meeting

Philippines once again had one of its first, last April 29th, 2010 when the 38th ASEAN – FLAG Council Meeting was held at ASCOTT Hotel, Glorietta 4, Makati City. The event was sponsored by Geodetic Engineers of the Philippines Inc. and was specifically organized by the GEP – NCR (Regional Division). It was a day of pride and honor for all Filipino participants to be observers of the Council Meeting of ASEAN fellows. A feastful Welcome Dinner was served after the meeting that brought Delegates and Participants into fellowship. On the following day, Delegates were enjoined by the GEPI Board of Governors and GEP- NCR Board of Directors to a guided tour. They took brief but memorable glimpse at some of the nearby attractions in the Heart of Manila, Philippines which included Luneta Park, Sights and Sound Museum, and Intramuros. Delegates were also more than gracious to attend the opening of the 22nd Regional Convention of The GEP-NCR. Moreover, it is not an understatement to say that Philippines is looking forward for the next Council Meeting more so for their next visit to the Philippines. •



AFLAG President Diah Kirana Kresnawati with Raymund Arnold S Alberto, GEP President (left), Council Members and observers at 38th AFLAG Council Meeting



Sr Mohammad Azmi bin Mohd Zin of PEJUTA Malaysia presenting report

the documents for further consideration at the next meeting

- 5) INVENTORY OF LIMITATIONS
 - The Meeting agreed to update the information in the inventory and to provide feedback on the 2008 inventory to ASEAN Secretariat before the next meeting.
- 6) TECHNICAL ASSISTANCE.
 - The Meeting took note and discussed the TOR of the technical assistance project for the Needs Assessment and Diagnostic Study and the Movement of Skilled Labour. Indonesia commented on the TOR of the Movement of the Skilled Labour. Furthermore Malaysia was of the view that with regard to the movement of the skilled labour, ASEAN should emphasise on strengthening our position before opening up to parties outside ASEAN

As a follow-up to The Meeting, AFLAG President informed The ASEAN Secretariat that AFLAG shall:

- Provide regular reporting to CCS
- Coordinate the compilation of feedbacks on barriers for professional surveying services.
- Consider and develop an appropriate Surveying Professional Exchange Program
- Coordinate the compilation of surveying curriculum within ASEAN, and
- To support the implementation of ASEAN Framework MRA on Surveying Qualification including engaging national competent authorities

Three working groups have been formed:

- 1) Compilation of feedbacks, licensing and registration regime led by Mr Ady Ruchiatan, Indonesia
- 2) Development of an appropriate professional exchange programme led by Pengiran Matusin Matasan, Brunei Darussalam
- 3) Surveying curriculum led by Mr Randy S Vicente, Philippines

The AFLAG President will regularly report to CCS, with Council Member Mr Teo Chee Hai, Malaysia as alternate.

The thinking behind the MRA (Mutual Recognition Arrangement) in the context of ASEAN FLAG is thus:

Within ASEAN, MRAs, with particular emphasis given to professionals, is an integral part of the ASEAN Framework Agreement on Services (AFAS) in its goal towards liberalization of trade in services and the ASEAN Economic Community.

ASEAN Framework Arrangement for the Mutual Recognition of Surveying Qualifications is a statement of mutual respect and shared objectives that identifies aims and objectives and establishes procedural arrangements for further negotiations.

It basically set the terms and conditions which are pre-positioned for areas of work not yet carried out.

Framework Arrangement sets the stage for future substantive and progressive liberalization and build trust and mutual respect.

- Promote Continuing Education and Professional Development
- Maintain best practices, standards and ethics
- Adopt (or adapt or develop) standards, criteria and best practices to facilitate the effective and efficient delivery of surveying services



Professionals Told To Take Hands-on-role In Their Jobs



Minister of Development, Pehin Dato Hj Abdullah (right) and Dato Paduka Hj Yunos (left) at the Surveyors Night 2010 held at the Centrepoint Hotel, Gadong

The Chairman of the Royal Institution of Chartered Surveyors - Brunei Chapter (RICS Brunei) Yang Berhormat Dato Paduka Hj Mohd Yunos Mohd Noh has called on qualified professionals in the Sultanate to be more "involved with the job" so as to uphold the image and standard of work of such persons, in his remarks made during the annual Surveyors' Night 2010 at the Centrepoint Hotel last evening.

Dato Paduka Hj Mohd Noh noted that the Brunei Institution of Geomatics (BIG), the Institution of Architects, Professional Engineers and Quantity Surveyors (PUJA) and RICS Brunei were the three professional bodies that governed the interest, standard and quality control and work ethic of quantity surveyors, building surveyors, land surveyors or geomatics, land managers, valuers and estate managers in the Sultanate.

Taking into consideration the increasing number of properly-qualified or experienced personnel and Brunei's rapid development, the RICS Brunei chairman questioned whether such professionals were still zealously involved in their work.

"Are we, as professionals, in control or hand-on with whatever task is entrusted to us, or are we still very much dependent on our assistants or technicians to perform some of the crucial tasks?" he asked rhetorically.

"If we are to improve our professional image, standard and quality of our work, we have to change our mindset and be directly involved with the job," he said.

He highlighted this was more so impertinent as good and easily developable land, which he considered as Brunei's second most important natural resource after oil and gas, was becoming scarce.

"Therefore, it is very important that we plan, administer, manage, use and develop our land in the most proper, efficient and effective way possible," he said.

Among those present was Minister of Development Pehin Orang Kaya Hamzah Pahlawan Dato Seri Setia Hj Abdullah bin Begawan Mudim Dato Paduka Hj Bakar.

The audience was also given an insight into the "Financial and Risk Management in Property Development", a presentation delivered by keynote speaker Sr Ong See Lian, The President-elect (2010/2011) of RICS and RICS Asia-Pacific Board Chairman. •

Survey Department Brunei Darussalam

All land surveying activities are regulated by The Survey Department, Ministry of Development. The Brunei Institution of Geomatics (BIG) and RICS Brunei play a coordinating role for practicing surveyors.

Survey Department had been continually tendering land and hydro survey works for Government projects to Licensed Land Surveyors. Survey Department is also initiating major project such as:

- a) BSDI (Brunei Spatial Data Infrastructure)
- b) Utility Surveys (Underground Utility Detection – UUD)
- c) Electronic Navigation Chart (ENC)
- d) LIDAR
- e) Field to finish (f2f)
- f) Review of The Licensed Land Surveyors Act

New Head Of BARKOSURTANAL

Dr. Asep Karsidi is the new Head of National Coordinating Agency for Surveys and Mapping (BAKOSURTANAL), taking over from Pak Rudolf Matindas.

ISI 2010 Workshop



The workshop was opened by Mr. Wenny Rusmawar Idrus, the President of the Indonesian Surveyor Association.

A workshop entitled "Implementing Geospatial Technology in Multidiscipline Area" was organized by Institut Surveyor on 31st March 2010 at Kridangga Ballroom Hotel Atlet Century Park Senayan – Jakarta. The objective of the event was to accommodate the needs of geospatial technology users, especially in Indonesia, in sharing and updating their knowledge and discussing what have done and what problems occur in their daily tasks.

This event was attended by 80 participants and there were 9 technical papers including the keynote speech from Mr. Wenny Rusmawar Idrus – Chairman of ISI .



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Change @ ISM

On 19th June 2010, ISM held their 49th Annual General Meeting.

At the AGM, Sr Elvin Fernandez assumed the Presidency of ISM from Assoc Prof Sr Dr Hajjah Wan Maimun Wan Abdullah.



The First GNSS-CORS Workshop



The first GNSS-CORS workshop in Indonesia was held in the campus of Gadjah Mada University, Yogyakarta, from 15 to 16 July 2010, organized by the Department of Geodetic Engineering, Gadjah Mada University in collaboration with the Indonesian Surveyor Association and attended by 108 participants. The mission of the workshop is to encourage the Indonesian surveyor to be modern surveyor concerning with the recent development of the modern positioning technology i.e. NRTK GNSS and NDGNSS CORS.

The Seminar on the Development and Application of GNSS CORS was attended by 247 participants, and was opened by the Dean of the Engineering Faculty of Gadjah Mada University, Ir Tumiran, M.Eng., Ph.D. The

keynote speech is given by Prof Chris Rizos (UNSW) with the theme of "CORS and It's Applications : Current and Future, Challenges and Opportunities".

There was also an Exhibition on GNSS-CORS Technology supported by five major GNSS equipment vendors in Indonesia: PT Almega Geosystem (Leica), PT Asaba (Sokkia), PT Exsol Innovindo (Topcon), PT Datenscrip (Javad), PT

Hydronav Tehnikatama (Trimble). This Exhibition was opened by Prof Chris Rizos. •



What a Week for Malaysian Surveying Profession

A bulletin from the Council of Past Presidents of ISM

The week began on April 10th, 2010. At the United Nations Group of Experts on Geographical Names (UNGEGN) Asia South-East and Pacific South-West Division meeting in Sydney, Australia, Dato Prof Sr Dr. Abdul Kadir Taib was unanimously elected as the Chair of this UNGEGN Division. The term of the chairmanship is five years. UNGEGN comprises Experts nominated by their Governments primarily to consider the technical problems of domestic standardization of geographical names, including the preparation of a statement of the general and regional problems involved, and to prepare draft recommendations for the procedures, principally linguistic, that might be followed in the standardization of their own names. UNGEGN Asia South-East and Pacific South-West Division comprises Australia, Bhutan, Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, New Zealand, Nauru, Papua New Guinea, Philippines, Singapore, Sri Lanka, Thailand, United States, Vanuatu, Viet Nam. Dato Prof Dr. Abdul Kadir Taib is a Past President of the Institution and currently the Director General of Survey and Mapping Malaysia and Chairman, Land Surveyors Board. As the Chair, Dato' is to stimulate activities in the standardization of geographical names within the division, through technical meetings, correspondence etc.

On the morning of April 13th, 2010, we woke up to the news that Past President Sr. Ong See Lian was confirmed as President-elect (2010/2011) of the Royal Institution of Chartered Surveyors by her International Governing Council and will assume the Presidency in July 2011 for the 2011/2012 term. RICS was founded in London in 1868, and granted a Royal Charter by Queen Victoria in 1881. The Charter requires the Institution "to maintain and promote the usefulness of the profession for the public advantage." Past President Sr. Ong will be the first Malaysian and Asian to assume the office of the Presidency of RICS.



Teo Chee Hai being congratulated by FIG President Stig Enimark

On Friday, April 16th, 2010, Past President Sr. Teo Chee Hai was selected over two other candidates to be the next President of the International Federation of Surveyors (2011 – 2014). The International Federation of Surveyors (FIG) is an United Nations recognised international non-governmental organisation, representing more than 120 countries, and the numbers are growing, throughout the world whose purpose is to support international collaboration for the progress of surveying in all fields and applications as well as to ensure that the disciplines of surveying and all who practise them meet the needs of the markets and communities that they serve. The Federation was founded in 1878 in Paris and strives to enhance the global standing of the surveying profession. For the first time in her history, a Malaysian and an Asian come 2011 will be at the helm of FIG.

The icing came about 90 minutes later on the same day, April 16th, 2010 when the Association of Authorised Land Surveyors Malaysia (PEJUTA), FIG's sole member association from Malaysia, was given the honour to host the 2014 FIG International Congress and General Assembly through bidding and selection process. This will be the first time FIG will hold her Congress in Asia and the city of Kuala Lumpur, Malaysia has been given this honour. The Association, the Profession, the City of Kuala Lumpur and the Country of Malaysia has pledged to competently deliver the best ever FIG World Congress in the heart of Asia, one that will be comprehensive in its

programme, at a compelling destination that will be competitively priced, attractive and affordable to all. The successful bid had the support of the Government of Malaysia through the Malaysian Convention and Exhibition Bureau, Ministry of Tourism Malaysia; Datuk Bandar Kuala Lumpur; the Department of Survey and Mapping Malaysia; Tourism Malaysia; Professional Services Development Corporation; Land Surveyors Board, Malaysia; Board of Valuers Appraisers and Estate Agents Malaysia; Board of Quantity Surveyors Malaysia; University Malaya and the Institution of Surveyors Malaysia.

The Surveying Profession in Malaysia, in the space of one week, April 10th – 16th, has received considerable recognition and entrusted with considerable responsibilities. These are historic occasions and the Surveying Profession must be proud of these recognitions and trust.



Malaysia FIG 2014 Bid Committee

And the pattern continued ...

Before the month of April ran out, Dato' Sr Hj Abdul Rahim Rahman was appointed a Senator by the Government of Malaysia, was sworn in on 3rd May 2010 and took his seat in the Dewan Negara.

The Council of Past Presidents congratulate PP Dato' Prof Sr Dr Abdul Kadir Taib, PP Sr Ong See Lian, PP Sr. Teo Chee Hai and YB PP Dato Sr Hj Abdul Rahim Rahman on their respective selections, as well as PEJUTA for bringing the first ever FIG International Congress to Asia and Malaysia. It is indeed an honour for our beloved surveying profession in Malaysia and a heavy responsibility to shoulder, one that the Profession must and is ready to assume.

The Council of Past Presidents encourages the entire Malaysian surveying community to seize this opportunity to lift our game, uplift our practices, enhance our global standing and extend our usefulness for the betterment of the economy, the community and the environment.

Datuk Prof. Sr A. Rahman Abdullah
Chairman, ISM Council of Past Presidents

22nd GEP-NCR Regional Convention... More Than A Success



Raymund Arnold S. Alberto, GEP President

For years, Annual Regional Convention of the GEP-NCR has always been a venue for learning and camaraderie. This year, in the afternoon of April 30th, 2010, with the theme, "Facing the Challenges of the New Millennium through Capacity Enhancement", it has been more exciting with the participation of International fellows coming from International Federation of Surveyors – FIG, and equally prestigious ASEAN Federation of Land Surveying and Geomatics.



AFLAG President Hon. Diah Kirana Kresnawati receiving a plaque from GEP President

Keynote Speech was delivered by no less than Hon. Diah Kirana Kresnawati while, Hon Teo Chee Hai from Malaysia and Hon Pengiran Matusin Matasan from Brunei Darussalam shared remarkable lectures on the Role of Land Surveyors in their respective countries which indeed started the much – awaited Technical Session of this years' convention.



GEP President presenting plaques of appreciation to Hon Teo Chee Hai and Hon Pengiran Matusin Matasan



AFLAG President Hon. Diah Kirana Kresnawati with delegates

FIG VP Visits The Philippines



FIG Vice President being presented with a plaque after his keynote presentation by the Chairperson of SLA and flanked by the President of NCR and National President of GEP.

"Accelerating the Development of Cadastral Spatial Data Infrastructures Towards Sustainable Good Land Governance", was the theme of the South Luzon Area Assembly of the Geodetic Engineers of the Philippines Inc., held on 6 & 7 November 2009, Quezon City, The Philippines

FIG Vice President, Teo Chee Hai attended the South Luzon Area Assembly and he was warmly received. FIG has accepted the invitation, though on a short notice, to enhance its engagement with its member associations. The Geodetic Engineers of the Philippines Inc (GEP) is Philippines' sole member association in FIG. The event had a record attendance, more than doubling previous averages, so said a number of the participants.

GEP organises herself into 17 Regions and 4 Areas and the South Luzon Area (SLA) comprises three Regions including the National Capital Region (NCR), the Southern Tagalog Region and the Bicol Region. The event was attended by all of the three Regions' Presidents, the Chairman of the South Luzon Area, non other than the organising chairperson, Engr. Randolph S Vicente and their national President, Engr. Cecilio C Reyes.

FIG Vice President delivered a keynote presentation entitled "Keeping Pace with the

Times". In the presentation, he stressed on the importance of Good Land Governance and Spatial Data Infrastructure in sustainable development and disaster risk management. During his presentation, he conveyed FIG's sadness over the miseries and hardships endured by the Filipino people over the past five weeks from devastating typhoons beginning with Typhoon Ketsana. He saluted the strength and grittiness of the Filipino people in the midst of such calamities

At the SLA Fellowship and Recognition Night, FIG Vice President was requested to deliver a short inspirational speech and he adopted SLA's slogan "Together We can make a Difference" and told all present "We could, We should and We Must" make a difference in the very world we live in. He spoke of the need to provide confidence and quoted Franklin D. Roosevelt, "Confidence . . . thrives on honesty, on honour, on the sacredness of obligations, on faithful protection and on unselfish performance"

That evening, nine illustrious personalities were recognised and awarded for their notable achievements in the Land Sector. One among them was none other than Engr. Felipe F Cruz, founder and chairman of F.F. Cruz & Company Inc., 90 years old, still able to communicate with the audience and still practising!

The Vice President also took time during his stay in the Philippines to meet members of GEP as well as Geodetic Engineering undergraduates. •



FIG Vice President with some Geodetic Engineering undergraduates at a dinner reception

Dinner and Fellowship night concluded the first day of the 22nd Annual Regional Convention which was held at Intercontinental Hotel, Ayala Avenue, Makati City. The first- half of the second day was intended for the Plenary and followed by the first- ever adaptation of parallel session which is something new for all 242 attendees of the said event.

The event was more than fruitful not to mention it was graced by fellows from our neighbouring countries which made us all not only fulfilled but more than anything else proud that we are not only doing our best locally but we really are strengthening our ties internationally. •



Strong participation from GEP-NCR

Accuracy of Geometric Geoid Model of Singapore (Using RTK Heighting)

During the FIG Congress 2010, held in Sydney, Australia, excerpts of the article above were taken from a paper shared by Dr Tor Yam Khoo (Singapore)

As an initiative from the Singapore Land Authority's (SLA) for providing and maintaining a precise levelling datum for Singapore, a complete re-levelling of the precise levelling network of Singapore was carried out to derive the reduced levels of some 2000 plus benchmarks which comprised of new Precise Levelling Bench Marks (PLBMs), existing PLBMs, their witness marks and existing Integrated Survey Network (ISN) markers.

A geometric geoid model for Singapore was also computed from the geoidal heights derived from the RTK ellipsoidal heights and the adjusted reduced levels of 406 marks also comprising of PLBMs, witness marks, offset marks and ISN markers.

43 independent variables dependent on the easting and northing coordinates were initially used to compute the multiple regression surface to best fit 463 benchmarks with geoid separations (GS) which are the dependent variable in the formulation. 58 benchmarks were found to have outlying GS and subsequently found to have gross errors in their RTK heights.

Recommendations had been made to avoid such spurious RTK heights. Stepwise multiple

Vietnam: The 7th FIG Regional Conference

The 7th FIG Regional Conference, Hanoi, Vietnam was held 19th-22nd October 2009. The Conference provided an avenue to focus on top issues in South-East Asia and also offered a lot of interesting topics for surveyors from all over the world. During The Conference, FIG collaborated with other UN agencies such as FAO, UN-HABITAT and the World Bank

AFLAG President Drs Diah Kirana Kresnawati, together with Immediate Past President See Seng Guan and Council Member Teo Chee Hai presented a paper titled "Professional Co-operation Concept for South East Asia" which emphasized the relevance and role of AFLAG.

At the 37th AFLAG Council Meeting, Bangkok, December 2009, Mr Pham Chi Tich reported that The Cadastre and Engineering Survey Company, CESC is a First Class State Company, directly dependent on the Ministry of Natural Resources and Environment, operating for business production in the field of Surveys and mapping, land management and environment, implementing the quality management system according to the International Standard ISO 9001:2000.

CESC has implemented some main projects;

- Modernization and improving perfectly the State Elevation Networks 1, 2 and 3 classes in the whole country.
- Surveying topographical maps and executing database of Geographic Information System in Ho Chi Minh City and provinces in the whole country.
- Surveying topographical maps for Hydro electric plans and surveying seabed topographical maps in provinces and Island.
- Surveying cadastral digital maps and forming cadastral documents in order to issue using land license; adjusting some modifications of maps and land managing documents for 58 provinces and cities in the country; projecting plan and using land. Execution of Land Information System and Real Estate System
- In recent years, CESC has implemented many projects about environment: environmental protection, environmental planning, Environmental Impacts Assessment of many major projects, designing, constructing wastewater and air emissions treating systems, treating solid waste in some provinces, watershed management for Mekong River and environmental condition monitoring with the laboratory ISO/IEC 17025:2005. •

regression using the method of forward selection was used to compute the polynomial equation for the geometric geoid. Only five (5) independent variables and a constant term were ultimately adopted in the formulation.

The geometric geoid as determined is able to achieve accuracy levels to within +/- 0.030m,

+/- 0.040m and +/- 0.050m for 82%, 95% and 99% respectively of the 464 benchmarks, offset marks and witness marks surveyed.

Therefore, the geometric geoid is suited to be applied specifically for engineering related applications with an accommodation of +/- 0.050m uncertainty in the height component. •

Cambodia: Jouni Anttonen of FINNMAP

Jouni Anttonen of FINNMAP reported that two major papers from Cambodia were presented at The FIG 2010 International Congress in Sydney; entitled:

- a) Status of Land Reform in Cambodia - Sar Sovann (Cambodia):
- b) Successful Capacity Building of the Cambodian Land Administration - Jouni Anttonen (Finland, Cambodia).

Following the 2009 Declaration on Land Policy by the Royal Government of Cambodia, apart from continuing the development and implementation of land registration and modern multi-purpose cadastral system, new fields of activities of Land Administration Sub Sector are now under policy, legal and technical development:

- NSDI/LIS based on the existing and further developing digital geodetic, orthophoto and cadastral data
- Land valuation/property valuation system
- One-window cadastral services
- Private sector development/Public-private partnerships in Land Administration.

The on-going Land Administration Sub Sector Programme (LASSP, 2009-2012) is being supported by the Government of Finland (through FINNMAP), the Government of Germany (through GTZ) and the Government of Canada (through CIDA). •

Welcome to the world of chartered surveying



Chartered surveying is a hugely diverse profession that embraces land, property and the built environment. As a chartered surveyor, you would enjoy a career that gives you high status, diversity, greater earning power, the opportunity to travel and the chance to shape the future.

RICS (Royal Institution of Chartered Surveyors – www.ricsasia.org) is one of the most respected and high profile global 'standards and membership' organisations for property and construction professionals. RICS offers many different routes to membership and has signed a Memorandum of Mutual Recognition of Membership (MMRM) with the Institution of Surveyors, Malaysia (ISM). For further information on how to apply for membership and become a Chartered Surveyor, please e-mail: ricsasia@rics.org or call us on 603 7987 9184.



ricsasia.org

AROUND THE REGION

Yunnan Association For Surveying and Mapping Held Its 9th General Congress



New President of YASM, Mr. Liu Ji-Yuan

YASM (Yunnan Association for Surveying and Mapping) held its 9th General Congress on 9th May, 2010. Mr. Liu Ji-Yuan was elected as the new President of YASM, taking the responsibility from former President Mr. Yang Jun-dong. Mr. Liu hoped that he will dedicate to the development of ASEAN FLAG. He also welcome members of ASEAN FLAG, surveyors and surveying companies to China for the Meeting of ASEANFLAG to be held in Yunnan in December 2010. Welcome to enjoy the ethnic culture of Yunnan.

YASM is happy to introduce Guangzhou South Survey Instrument Corporation and Wuhan Zondy Cber-Tech Co Ltd who had since become sustaining members of ASEAN FLAG at the 37th Council Meeting in Bangkok, Thailand and were presented the Membership Certificate by AFLAG President Ms. Diah at the 38th Council Meeting on 29th April 2010 in Manila, Philippines. YASM encourage more from China to join AFLAG, thus making AFLAG stronger. •



BRUNEI DARUSSALAM

- 31st July 2010 - The Meeting of The Joint Surveyors Boards of Brunei Darussalam, Peninsular Malaysia, Sabah, Sarawak and Singapore
- 2nd August 2010 - Survey Department, Brunei Institution of Geomatics and RICS Brunei to organize a CPD event. Seminar themed "Geomatics Innovation for National Development"
- 3rd August 2010 - The 39th Council Meeting of AFLAG.

CAMBODIA

- September 12th -18th 2010: Asia Pacific Regional Geodetic Project (APRGP), GNSS campaign, supported by FINNMAP.
- September 27th -October 1st 2010: Annual Summer School at the Faculty of Land Management and Administration (FLMA) of the Royal University of Agriculture (RUA). Supported by GTZ with international and local guest lecturers.

SINGAPORE



- 14th August 2010: *Seeing For Future*
 - 1) Role of Land Surveying in GPS controlled machines (by Gerry Ong)
 - 2) Electronic Measurements – Past, Present & Future (by Mr Gregory Tan)
- 18th September 2010: *Surveying Experiences in MRT Construction*
 - 1) Datum Transfer Surveys (by Mr Toh Say Leong)
 - 2) Underground Control Surveys (by Mr Kelvin Lim)
 - 3) Tunnel Lining As-Built Surveys (by Ms Teo Hui Ying)
- 9th October 2010: *Technical Updates*
 - 1) Title to be confirmed (by Dr Tor Yam Khoon)
 - 2) Subsea Pipeline Survey (by Mr Tan Choo Haw)
- 8th January 2011: *Joint SISV-LSB Seminar*
 - 1) 3D Cadastre - A Study Report
 - 2) Forum Discussion

MALAYSIA



- 11th South East Asian Survey Congress, Kuala Lumpur, Malaysia, 22nd – 25th June 2011. The Congress will incorporate:
 - o The 13th ISM/RICS International Surveyors Congress
 - o ISM's 50th Annual General Meeting and Anniversary Gala Dinner
 - o ISM's Divisional Annual General Meetings
 - o AFLAG Council Meetings and Biennial General Meeting
 - o PCGIAP Executive Board Meeting and Workshop
 - o GSDI-12 Conference
 - o Exhibition (expected to have between 80-100 booths).

INDONESIA

- November 11th -12th 2010 :Annual CPD event in Pekanbaru, Riau, which is Forum Ilmiah Tahunan (Annual Forum). The Focus of this forum will be the Role of Surveyor in boundaries definition and anticipating the delegation of fiscal cadastre to local government.

LAOS

- August 2010 : Lao PDR is starting a new four-year project (2010-2014) for Strength ening the Capacity of the National Geographic Department (NGD). The project includes new aerial photography, topographic mapping and capacity building of technical and human resources of NGD. The project is financed by the Government of Finland and implemented through FINNMAP

NEXT AFLAG MEETINGS

- December 8th – 9th 2010 Wuhan, China
- March 2011 – Indonesia



Congress: Opportunity To Make New Friends And Renew Old Acquaintance ...

The 10th SEAS Congress in Bali in August 2009 sprung a pleasant surprise when long-lost friends met after 27 years. H K Sung of Hong Kong wrote "Dear Matasan (Pg Matusin), It is wonderful to meet you in Bali - 27 years after we graduated from NELP. Hope to see you more in other conferences in the future. Enclosed please find a photo we took in Bali. Dominic Siu and Ng asked me to send their regards. If you ever come to Hong Kong, give us a call. Keep in touch."



Pengiran Matusin Matasan (2nd right) with 'long-lost' classmate HK Sung (right) from 1979-1982 at North-East London Polytechnic, UK (now known as University of East London)



The shortest distance between two points
is not a trip back to the tripod.

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