

"Fore-Sight"



"Fore-Sight"- Quarterly Newsletter of the Association of Surveyors of P.N.G.

2002 CONGRESS REPORT FROM LAE

Thanks to Congress Manager Luther Sipison and his many helpers, the 2002 Survey Congress in Lae turned out to be a great success.

The standard of the technical papers and presentations was first class, ably abetted by a magnificent venue and support for the event by overseas survey reps Ian Truscott of C.R Kennedy & Co and Peter Ludlow of Measure Tech P/L.

The theme, "Surveyors Need For Progress In The Twenty-First Century", was well addressed in many of the presentations that included ...

"Cadastral Surveying - An Outsiders Perspective" by AusAid advisor to the OSG, Mr. Bevis Kenneth.

"Proposal for Technology House & Participants" by the President Institute of Engineers, Dr. V.M. Pavnachandran (see IEPNG conference report p5).

"Cutting Through The Red Tape" by Surveyor-General, Sam Kodawara.

Addresses and other presentations relevant to the theme of the Congress were also given by Mr. Smyly Bannerman, President - Institute of Valuers and Land Administrators, Mr. Raymond Bure, President - PNG Institute of Cartographers, Mr. Oswald Talopa and Mr. Omani Rei, Director, NMB

The Technical Sessions were chaired by ASPNG President Steve Low, Fellow of the ASPNG Mr. Michael Larmer, Mr. Terrence Kuniaka (Assistant Congress Organiser), ASPNG Hon. Sec. Mr. Dickson Taunagita and ASPNG Councilor Mr. Steven Lumis.

Marking the importance of the occasion, Sir Robert Sinclair provided the Official Opening to the Congress while the keynote address was given by Mr. Misty Baloioloi, Vice Chancellor PNG University of Technology.

The overseas trade displays were complemented by local presentations from GeoMark Limited (GPS Consulting Services & Training), the National Mapping Bureau (maps & digital data), and MapMakers Limited (launching their very affordable PNG Nation-wide GIS Datasets).

Rounding out all Survey Congresses, are the array of social events that included the President's Welcoming Cocktail Party, ASPNG Annual Dinner, and the Farewell Bar.B.Que (see two page photo spread inside). Apart from the 'official' social calendar, many 'unofficial' social events were initiated in the *Sportman's Bar of the Lae International Hotel*.

Congratulations Luther on a job well done.

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COMING EVENTS :

International Map Trade Association Conference, Wellington, NZ
14-16 November 2002

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2002 ASPNG AGM Report

This year's Annual General Meeting of the Association of Surveyors of PNG was held on Friday 12th July in Lae.

Annual Reports from the President, Secretary and Treasurer were well received by the members and to all intents and purposes the Association continues to grow and operate in a stable financial position.

The only sub-committee for the previous year had little success in obtaining members views on a number of matters related to the possible furthering of the Association by embracing new technology and professional expertise in the area of spatial data management and dissemination. This will be addressed in the coming year through a new sub-committee.

Elected Council for this year comprises ...

President : Steve Low
Secretary : Dickson Taunagita
Treasurer : Steven Lumis
Councilor : Jones Taugaloidi
Councilor : Bob Curley

Congratulations to Steve Low on his re-election as ASPNG President and the other Councilors in volunteering their services to the Association.

A special thank you must go to **Michael Larmer** for putting his hand up to be the 2003 Survey Congress Manager.

A sub-committee has also been formed to look into matters of Customary Land Registration.

Meridian GIS Develops 'Compass' for MapInfo

Adapted from MSIA Newsletter 'The Mapping Scientist' - May 2002

Most major mineral and petroleum exploration companies maintain regional offices throughout the world's remotest locations. The flow of information between these sites and head office is of the utmost importance. Decisions based on the latest results or interpretations must be made promptly and accurately. While recognising the significance of efficiently disseminating information, the delivery of that information - specially imagery - has presented a problem. Imagery is a valuable exploration tool but, but primarily due to large file sizes, has been poorly managed and distributed, typically being delivered by CD.

Meridian GIS, a leading Australian supplier of GIS technology and services, recognised the value of data management to organisations that maintain spatial data. They found that a lot of their clients datasets to be in a poor state of organisation, often duplicated, lost and generally stored without any metadata to indicate validity.

In response, Meridian GIS developed a commercial software product - **Compass** - for the **MapInfo** desktop application. With this tool, clients could catalogue and maintain MapInfo tables, saved queries, workspaces, and earth Resource Mapping Image Web Server connections. The Compass catalogues could be searched either hierarchically or spatially with the results presented to the user in a logical, intuitive interface. Once a search area has been identified the user can further narrow down the search by utilising the catalogued metadata associated with each dataset. The Compass catalogue is a relational database which stores files. Locations and metadata can be filtered and sorted using standard SQL.

Recognising that this approach could be used with imagery to aid corporations with remote offices, Meridian GIS began development on a Compass Web Server. Leveraging on the success of Compass, the concept of searching a catalogue of images on a server side database with the results presented in an Internet browser was developed. The intuitive interface would walk users through a spatial search from an index map, accurately narrowing down the number of images presented for selection and resulting in only the imagery over the specified area being presented. Images could then be previewed with data from the ECW header displayed in an information panel. By displaying the sorted data, valuable information such as currency, size, cost, validity, and ownership could be used to eval-

COMPASS

MapInfo GIS Data and MetaData Management
As Geographical Information Systems continue to play an increasing role in the day to day business decisions of all organisations, the amount of data utilised is set to increase enormously.



With the volume of data growing, retrieving information and knowing its validity is becoming increasingly difficult. Compass has been developed to manage this data and allow users to make effective use of that information.

uate the image's integrity. Once the correct image has been selected, the user can open that image in their browser.

Essential to the success of the Compass Web server is Earth Resources Mapping's Image Web Server and their compression format, Enhanced Compressed Wavelet (ECW). With the ability to view imagery 300% faster than any other wavelet-based compression format, Image Web Server could effectively deal with Terabyte sized image files.

Entire corporate image databanks can now be stored and managed in a centralised server located at corporate headquarters. Allowing compressed data to be served on an Intranet or the Internet eliminates the obstacles to easily and reliably share large imagery. The emergence of Image Web server and Compass Web Server has eliminated the disconnected islands of information syndrome in which spatial data is managed at separate locations. While maintaining data integrity through the most up to date information, no longer are employees, partners and customers reliant on CD's arriving in the post only to discover it has already been superseded. Compass Web Server while originally designed for exploration companies, is equally applicable to diverse enterprises such as National and Provincial Government Departments, and data providers.



The internet has allowed corporations to change the way they operate by re-engineering business processes to drive revenues, increase customer satisfaction and improve overall company productivity. **Compass Web Server** adds the final and yet most important piece to the image delivery jig-saw Data management.

SOFTWARE FEATURES :

Intuitive Interface : The easy to use interface takes users through a series of logical steps which represent a typical workflow.

Spatial Searching : Image selection begins with a spatial search of the Compass Catalogue, accurately narrowing down the number of images presented for selection.

User Defined Classifications : Images are classified in user defined categories and displayed in a familiar browser interface.

Logical Names : Instead of hunting through a long list of incomprehensible image names or URL's, imagery is presented with logical names.

Image Preview : Preview and retrieve information on selected images before opening.

Metadata Stored : Storing metadata and presenting the latest and most accurate information available preserves image integrity.

Comprehensive Catalogues : **Compass Web Server** allows companies in the business of supplying images to offer comprehensive data catalogues, leverage the value in archival datasets, and deliver to a vast number of existing and potential clients in a cost effective manner. Provide massive quantities of imagery in defined catalogues. And deploy on-line to high volume sites, while maintaining data integrity with the most up to date information.

Scalable : Multiple catalogues can be deployed to an enterprise from a centralised image repository, with the benefit if being maintained at one site, therefore ensuring consistency of content and reducing the administrative overheads of separately maintained catalogues.

Flexibility : **Compass Web Server** provides administrators with the tools to customise the interface into classifications that best represent the datasets to be utilised. By maintaining a catalogue of images in a server side database, search and filter operations can be executed and the results of any queries presented to the user. Consequently, retrieval of that imagery is more effective. **Compass Web Server** provides simple tools for uploading and entering image details, with the associated metadata into the Compass catalogue.

Integration : **Compass Web Server** is designed to ensure you have ready access to your costly archival hardcopy data. By scanning and cataloguing your old corporate data vaults, valuable information is made immediately available for integration with current data in desktop GIS applications.

Photo Review : 2002 Survey Congress

Digital photographs courtesy of Mr. Nick Moon, Function Manager, Lae International Hotel



2002 Congress Manager Luther Sipison, a job well done !!!



Re-elected for a 4th term, ASPNG President Steve Low relaxes with surveyor Bill McKibben



R to L : Lands Secretary Tony Luben, Nou Tau, Joe Yapakae, Bruce Durom, and Somo Sasenu



R to L : Hon Sec Dickson Taunagita shares a laugh with Bruce Durom, Raymond Bure (Pres. PNGIC) and Alan Dunley



Newly elected ASPNG Councilor Jones Taugaloidi enjoying the 'Farewell Bar.B.Que meal with friends.



Joseph Kunda and friends taking time out to give a big smile for the cameraman



L to R : C.R. Kennedy Survey Rep Ian Truscott, Pres Steve Low, Fellow Michael Larmer, Bill McKibben and Alan Dunley



Vaki Vailala & friends 'tucking-in' to the B.B.Q. kai

Photo Review : 2002 Survey Congress

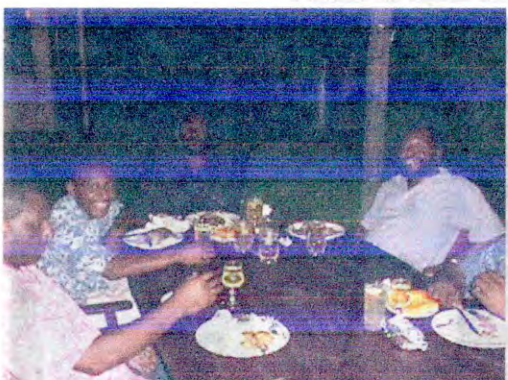
Digital photographs courtesy of Mr. Nick Moon, Function Manager, Lae International Hotel



Merlyn Alarcoz and friends at one of the quieter tables



Merlyn Alarcoz proving she's a little camera-shy after all



A glass of wine or two made the B.B.Q. taste even better



Part of the organising committee ... and their smiles helped the Congress to be so successful



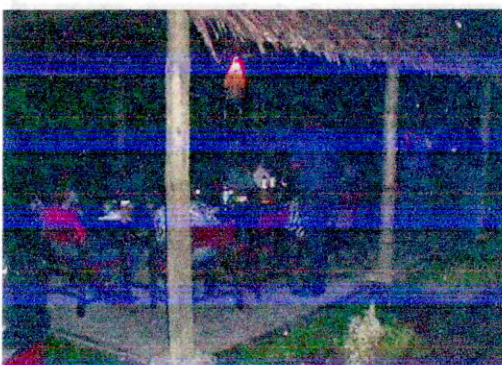
Charles Ouba and friends enjoying the final evening of the Congress



Friendly staff from the Lae International Hotel ensured the evening was a great success.



Susto Raepa talking to friends (and proving not all surveyors drink beer)



The 'Haus Wind' provided a quiet getaway area for a few of the troops as well as providing shelter from the occasional shower.

IEPNG CONFERENCE MAY 2002 Major Development Projects in PNG



In a rare moment I decided to shell out the K450 required and attend the Institution of Engineers PNG conference at the Crown Plaza in POM on May 29 and 30. It was money well spent.

The quality and presentation of papers was excellent and the service provided by the ladies of the IEPNG in backing up the conference was first rate. What attracted me to the Conference was the theme that focused on major development projects in PNG. Basically, every development project needs the services of surveyors and mappers as well as the input by engineers.

Presentations were made as follows :

Paper Title	Author
Gas Project to Queensland	Mr Joseph Garbut, Sec. DoP&E
Napanapa Oil Refinery	Mr Bob N Morokai, DoP&E
Kutubu & Gobe Oil Fields	Mr Paul Gazawe, Chevron Texaco
Ok Tedi Dredging and	
Environmental Care Project	Mr. Ken Voigt, Ok Tedi Mining Ltd
Misima Mine Rehabilitation	Mr Shadrach Himata, DoM
Ramu Nickel & Cobalt	
Mine Project	Mr. Tim Riley, Highlands Pacific Grp
NCDC Civic Works	Mr. Bernard Kipit, NCDC
Wewak Storm Water Proj	Mr. Benjamin Warakai, DoESepik
PNG Airspace Management	Mr. John Cholai, CAA
PNG Water Plan	Mr. Patrick Omini, Water Board
Deloitte Tower Project	Mr. George Tipping, Kumagai Gumi
Motukea Slipway	Mr. Collin Millar, Curtain Bros
Yonki Hydro Project	Mr. Arnold Sorea, PNG Power

The Opening Address was given by Dr. Puvanachandran, President of the Institute of Engineers PNG. The Keynote Address was presented by Mr. Ila Geno, Chief Ombudsman through a paper entitled "Improving Corporate Governance in PNG - A Professional Ethics Perspective" - this was a very timely and interesting paper.

The technical sessions were complimented by morning and afternoon teas plus liberal luncheon sessions. To start the conference, a Cocktail Party was held on the evening of May 28th. Attendance Certificates and IEPNG sports shirts were given to all delegates.

SURVEYORS CPD QUIZ

When a true meridian is to be located by observing *Polaris*, it is advisable to eliminate the effect of any maladjustment in the theodolite by taking two sights on the star—one with the telescope normal and the other with the telescope inverted. Two such observations can be made best when the star is observed at :

- A. Upper Culmination
- B. Elongation
- C. Lower Culmination
- D. Maximum Declination

Answer D was the correct response to the last question.

CARTOGRAPHERS' 2002 AGM Sets A Standard To Achieve



Friday 13th, September 2002 : An historical event occurred at the Gateway Hotel when the PNG Institute of Cartographers held their last Annual General Meeting and inaugurated the **Institute of Mapping Sciences and Spatial Information Papua New Guinea (IMSSIPNG)**.

Along with the new name, a startling new logo was revealed, a revised Constitution introduced that incorporates both a Continuing Professional Development (CPD) Program and a Code of Ethics.

The changes have been worked on for some 14 months and preliminary proposals were put to a PNGIC AGM in November 2001. Good work by Council saw all changes unanimously accepted by the PNGIC membership at the 2002 AGM.

A keynote address to the 2002 AGM was given by Sir Joseph Nombri, former PNG Ambassador to Japan. Sir Joseph made some good points and recounted some of his surveying and mapping experiences from his *kia* days. He indicated that *tribalisation* can actually be used as a beneficial philosophy in business practice and cautioned it must be taken into consideration in any matters regarding land mobilisation.

IMSSIPNG (affectionately known to some as 'Miss PNG') has a current membership of 127 members. Now the basics have been put in place, a full on membership drive will ensue and it is hoped to double the numbers in the next 12 months. Incorporation with IPA is also high on the agenda. The financial capability of the organisation continues to grow steadily.

The **Institute of Mapping Sciences and Spatial Information Papua New Guinea** plans to host the first ever PNG Carto Conference in 2004. Co-conference managers are Dickson Taungita and Alan Dunley. A theme and venue will be announced shortly.

Credit for the new momentum and enthusiasm developing in the cartographic fraternity must be given to **President Raymond Bure** who has worked tirelessly at setting and achieving goals over the last two years. He will leave the Institute in good hands when he travels overseas to study in the United States next year.

Paradise Lost ... So's the Paddle

Due to 'snail mail' not achieving delivery of the last issue of "*Fore-Sight*" prior to the recent Lae Survey Congress, the plea sent out to locate "**The Paddle**" could not achieve a significant result. Needless to say, the paddle is still lost.

While it seems a small thing, and a replacement paddle can always be arranged, the original '*shit stirrer's paddle*' is a part of **ASPNG** history and it would be a shame to lose yet another icon.

Anyone out there knowing its whereabouts please contact a member of the Council to allow for its safe return.

"Fore-Sight",
P.O. Box 1271,
Port Moresby, N.C.D.
Papua New Guinea



Phone: (675) 320 - 0231,
Fax: (675) 320 - 1539
Email address :

Newsletter contributions
can be sent to the Editor
at P.O. Box 1, Jacksons,
NCD or via fax to 325
7735 or by e-mail to :
mapper@daltron.com.pg

Members & Other News ...

Surveyors attending the Annual Dinner were somewhat surprised when one of the "Sergeants At Arms" **Tony Luben** was the recipient of a 'cross-fine' - seems to be yet another PNG first. Surveyors go for gold mate !!!

Surveyor Bob Curley continued the trend of backing a losing side when the Aussie Kangaroos gave the British Lions are 64 to 10 hiding on Friday July 12th. **Survey supplies rep Ian Truscott** is now the proud recipient of two signed K20 notes - that are kept framed for posterity. But to give Bob credit, he recouped some of his losses by backing the All Blacks against the Wallabies the following night to receive an autographed K20 in return.

The Farewell Bar.B.Que produced some interesting anecdotes as the night wore on into the early hours of Sunday morning. One of the more bizarre stories is that **John Brock**, a Fellow of the Institute of Surveyors Australia, is researching a book on how **surveyors** have 'died on the job' in unusual circumstances. This may have been prompted when he was involved in a shooting attack at Sogeri after the 2001 Congress in POM.

Some wit suggested the title of John Brock's book should be - "*Their Naked Bodies Were Never Found*".

And **surveyor Bob Linke** on that same trip to Sogeri had a close call at *Crystal Rapids* when he tried some white water rafting without a raft and was trapped virtually underwater by some rocks. Quick thinking by his **surveying** mates avoided a tragedy.

The proposed Kokoda Trail walk prior to the 2003 Congress is already gaining interest. **Surveying brothers Bob and Tony Schlencker** out of 'Rockie' and 'Brisie' look to be starters and first time visitors to a PNG Survey Congress.

ASPNG 37TH SURVEY CONGRESS - JULY 2003

"Registration of Customary Land - The Ultimate Challenge for PNG Land Professionals"

CALL FOR PAPERS ...

We are inviting Land Surveyors and allied Professionals to prepare technical papers to be presented at the 37th Congress of the Association. Whilst we expect that most Papers will be addressed to the above theme, other subjects relative to Surveying and Land matters will be entertained.

Interested parties are requested to make contact at their earliest convenience but Abstracts will not be required until March 28th, 2003.

The 2003 Congress is scheduled for July 10th to 12th at the Holiday Inn—PORT MORESBY. It is intended to arrange a Kokoda Trail walk immediately prior to the Congress.

Please direct all correspondence to **Michael Larmer Congress Manager, P.O. Box 372, Port Moresby, PNG.**
Ph. (675) 325 8322 Fax 325 8813 E-mail : alsurvey@daltron.com.pg

Editorial Comment : "... Lae Lady Lae ..."

With 3 or 4 months between issues you'd think the Editor could come up with something meaningful for the *Editorial Comment*. Not so this issue, but with the recent 2002 Survey Congress being held in Lae, I thought of relating one fellow's reminiscences of that fine City. He sent me a note, wanting it published in the newsletter under the heading "*Who Am I ?*" - perhaps 'What Are Ya !!' might be more appropriate. But, to his note ...

"Who Am I ? I first went to Lae on a day trip from Port Moresby in 1970. We lunched at The Cecil Hotel. Having visited Lae many times when on field breaks from doing forestry surveys for CNGT, I got to know the place fairly well. I recall those wonderful home-made pastries from the little shop in 2nd Street, the beaut fish and chips from the shop in 7th Street, and the iced coffee and toasted sandwiches from 'Paul the Poofster's Coffee Shop'. Lae was a good place to be based in 1982/83. One night at 'The Yachtie' I made my highest break at snooker, the next night I didn't sink a ball and had

to drop my strides in front of the lot. My missus won the 'Huon Open Golf Classic 'off the beater' in 1983. I also remember the 'Post Office' and the lovelies with feet so big they wore sneakers without laces. The Survey Congress was pretty good that year as well. It was rumoured that I commandeered a government vehicle after hours so me and a few mates could head down to the Butibum Black Market for a few cartons of cold SP. There were other rumours about me and Lae over the years - like being evicted from "the Restaurant" at the New Guinea Club, being booked for driving under the influence, and then escaping from the Lae lock-up. I still get to Lae occasionally and can be seen at the Waratah's Club or the 'Aviat'. Who am I ?"

Well I don't know who he is, but I'm avoiding the Waratah's and the Aviat Club next time I'm in Lae. Personally, I like the 'AERO Bar' at the 'Lae Inter' with those great B&W wartime photos.

It certainly was a great 2002 Survey Congress. Thanks guys. - Ed.