



MSI - *CONNECTED!*

Newsletter of the Mapping Sciences Institute, Australia

mappingsciences.org.au

August 2014

Presidents Report

It was much to my pleasure that I discovered 2015 has been declared the Year of the Map. This is a joint initiative of the International Cartographic Association and the United Nations Global Geospatial Information Management Committee (<http://ggim.un.org/about.html>), aimed at promoting the importance of maps and using maps in a global context. It is to be formally launched at the ICA conference in Rio de Janeiro in August but will begin January 2015. This provides the MSIA with an exciting opportunity to lead the celebrations of all things cartographic and geospatial in nature in Australia over the next 2 years.



Trisha Moriarty, President MSIA

The key objectives of the International Year of the Map (IMY) are to improve the overall knowledge of the general public as to the availability of maps, show how maps and geospatial information are used, demonstrate the techniques employed in making maps and the necessity of developing sustainable geographic information infrastructures. But just as important will be its legacy in creating and inspiring a new generation of cartographers and geographical information scientists. This is exactly what our institute is about.

I would like to call upon all MSIA members to think about how they can contribute to these objectives. No matter how little or big the effort, the opportunity to share your knowledge or skills should not be passed up. As we are 6 months out from the beginning of the IMY now is the time to begin planning. More information on potential events and activities is provided further on in the newsletter; see the article on page four. Plus we have put links to the ICA IMY guidelines on our website. I intend to take an active role in coordinating MSIA's role in the IMY celebrations and if you would to contribute please drop me a line at

president.msia@gmail.com

Trisha Moriarty
President MSIA

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From the Editor...

Welcome to the August 2014 edition of MSI-Connected!

Firstly, I would like to thank Adam Ladhams for his contributions and stewardship of the MSI-Connected newsletter as editor over the last couple of years, as well as the help and transition over to myself as the incoming editor. Once again, thank you Adam.

Now a bit of an introduction about myself and how I came to be the new editor. Where to start...

The role of becoming the editor of MSI-Connected I guess occurred by chance in that Doug Herrick (MSIA Councillor) just happened to pass my workstation at NSW Land & Property Information (LPI) and asked roughly to the extent, "Do you know anything about websites?" and more importantly how to edit them. Having a bit of a background in information technology and dabbling in building websites for others privately, I asked what he would like to know. Progressing the conversation forward about 15 minutes, it was mentioned that there may be need for some help and editing. Thinking it was to edit websites, and having experience using the software the MSIA website is built upon, I said I would be available to help out, of course not clarifying what it was exactly I was to do.

Skip forward a day or two and it occurs that there may have been a bit of a miscommunication and I had just volunteered myself as the new editor of MSI-Connected. Of course upon realising this, I proceeded to give Doug a bit of a stir, however, not one to shy away from a challenge, I eventually called the MSIA President and said I would take on the role and run with it.

So without going on and on, as you can see, here we are. I've made a little bit of a styling and layout change, and still teaching myself how to fly the publishing software, so I would hope the layout becomes a little more refined in future editions. If you have any comments or feedback regarding the newsletter, please let me know (contact details on last page).



Shane Oates, Editor

A little about myself professionally.

I have worked at LPI for a fraction over 10 years now, however I have only in the last two years had hands on experience in the production of mapping and spatial products and associated information. The time before this was spent working in the secretariat of the NSW Board of Surveying and Spatial Information (BOSSI).

I am currently undertaking LPI sponsored study (Certificate IV – Spatial Information Systems) and looking further into the future as to how I can further upgrade this qualification (most likely a Bachelor of Spatial Science Technology).

A little about myself personally.

Personally, I am married and have an 8 year old daughter. I am also a NSW Local Government Councillor for the Shire of Blayney (again, not one to shy away from a challenge).

I look forward to working with and receiving content from you (hint hint) for future editions.

Regards
Shane Oates

IMIA (ASIA PACIFIC) CONFERENCE 17-19 AUGUST 2014

*Rydges Hotel, Exhibition Street,
Melbourne, Australia*



The International Map Industry Association (IMIA) Asia Pacific conference is an annual event that promotes networking and education for organisations involved in the mapping and geospatial industry.

Whether you are in the business of maps or your organisation uses location-based technologies to make important, well-informed and evidence-based decisions, this year's event will highlight the value of Geographic Information Systems and associated technologies.

On 17-19 August, the IMIA (Asia Pacific) conference will feature an exciting programme of speakers that will showcase how the 'Power of Location' is put to good use in the real world. Business leaders, managers, academics and GIS professionals from the public and private sectors will attend, so should you- Sign up today!
<http://www.imiaconferences.com>

MapHack Day Sunday 17 August

Join us in a day of 'open hacking' and discover OPEN-source tools to hack OPEN data. Create an engaging web map in the space of a few hours. Be mentored by industry professionals and learn from your colleagues about what is possible when it comes to interactive maps. This is a no cost event but please register for the event, which will be capped at 50 attendees.

Full conference information can be found at <http://www.imiaconferences.com>

The IMIA are offering the IMIA Member rate to any MSIA members who wish to register for the conference.

To obtain the IMIA Member rate, just simply register for the event and select any of the **IMIA Member** options for registration. Please visit <http://www.imiaconferences.com> for a full listing of registration options.

Full Registration Includes: All Sessions, Access to Exhibition, Lunches, Tea Breaks, Welcome/Farewell/Dinner

IMIA Member: Full Registration - \$530

Registration only (without Receptions/Dinner)

IMIA Member: Registration only - \$345

IMIA Member: Day Registration - \$195

NON MEMBER: Full Registration - \$630

NON Member: Registration only - \$445

Day Registration - \$235

Students: Day Registration - \$55

(Full time students only, Receptions/Dinners not included)

Options

Welcome Reception 17 Aug - \$55

Conference Dinner 18 Aug - \$105

Farewell Reception 19 Aug - \$25

Table Top Display - \$220

Map Hack Day

Shaping Australia

I recently came across a collection of maps online in a place I normally I wouldn't have thought to ever look for such items, the Commonwealth Bank website. <https://www.commbank.com.au/about-us/shaping-australia.html>

The collection of maps available for viewing online range from 1472 - 1797.

Each map is provided with a brief history and background to the map content itself and when viewed in full detail, it is quite fascinating to see the level of detail and care that was taken to produce each map, let alone the time it would have taken.

The collection of maps include the following;

- Terra Australis Incognita – Pre-Renaissance
- Terra Australis Incognita – Post-Renaissance
- Terra Australis Cognita – Dutch Discoveries
- New Holland – Dutch Sea Charts
- New Holland – Pre-Cook Discoveries
- New Holland – Cooks' Discoveries
- Australia – Flinders' Discoveries

An interesting collection of maps I encourage readers to view.



Source & Copyright: Commonwealth Bank of Australia

International Year of the Map - Event and Activity ideas

The international year of the map provides the opportunity to run dedicated local map day events such as:

- Exhibitions of current maps produced by our mapping organisations
- Demonstrations of how maps and technology are used in the local communities
- Exhibitions of historical maps and mapping instruments
- Exhibitions that explore the relationship between cartography and art
- Children mapping competition

Alternatively these can be run as part of existing local events such as community festivals, school fairs or agency open days. Tapping in to existing events will ensure a broader audience can be reached with reduced dedicated promotional effort.

Similarly the organization of short seminars or presentations will give the opportunity to demonstrate and explore the use of geospatial data and maps in greater detail. These can also be run as part of existing events such as another professional organisation lecture series or education events like Earth Science Week or school career nights.

“International Map Year (IMY) is a worldwide celebration of maps and their unique role in our world.

IMY provides opportunities to demonstrate, follow, and get involved in the art, science and technology of making and using maps and geographic information.

Supported by the United Nations, IMY is an intensive international, interdisciplinary, scientific, and social strategy to focus on the importance of maps and geographic information in the world today.

The most important legacies will be a new generation of cartographers and geographic information scientists, as well as an exceptional level of interest and participation from professionals, schoolchildren, the general public, and decision-makers, worldwide”

David Fairbairn

MSIA National Council

President

Trisha Moriarty

Immediate Past President

Don Pearce

Chairman of Executive

Alan Armitage

Secretary

Keith Smith PSM

Treasurer

John McCormack

(Program Manager for Promotion & Management)

MSIA Councillors

Professor Graeme Wright

(International Program Manager, Editor-in-Chief of the 'Journal of Spatial Science')

Dr. David Fraser

(Research & Scholarship Program Manager, Webmaster, Editor of "Cartography")

Alan Unkles

(Membership Manager)

Trevor Menzies

(Heritage Program Manager)

Les Isdale

(QLD Division)

Colin Mitford

(NSW Division)

Michael Turner

(NSW Division)

Doug Herrick

(Bathurst Division)

Pat Killoran

Cartography - Past, Present and Future

Presented below are quotes from years gone past which could have been said yesterday with the same resonance.

1962 "It is becoming increasingly difficult in this electronic age for even the specialist to keep pace with developments in his own field of science. At the moment this applies particularly to Cartography through all its stages." President of the Institute, Norm Williams

1970 "Where knowledge is lacking we may extrapolate with due regard for the uncertainties arising from the incompleteness of our knowledge." (C.J.Herrick -scholar and humanist)

1973 "Recent decades have witnessed the coming of computers and automation which is having an immeasurable effect on contemporary cartography and the future outlook." Trends in Cartography, by Dr. Phillip C. Muehrcke, Associate Professor in Cartography, University of Wisconsin,

1977 "Automation is quite clearly the single item that will have the greatest immediate effect on map production and will sooner or later affect the working lives of nearly all cartographers." John Jenkins - report on the 2nd Cartographic Conference in Adelaide

1982 "Remember back to the early computers, large, slow and hungry for energy. Compare them with today's compact, fast, powerful and energy efficient models." Cartography Journal Editorial

1984 "It is an ironic trick of history that, at the very moment that cartographers seemed to have reached their goals and established their identity, they have to revise their philosophies on what cartography is or should be, to restructure their production and to update their education and training systems. Whether they succeed or not depends on their own inventiveness and flexibility." Professor F.J. Ormeling, President, ICA, in his welcome address to the 12th ICA Conference. Perth, 1984

Compiled by David Fraser 15/7/2014

MSI - Connected! content submissions

If you have an article, report, comment, image or any other content that you would like to share with fellow MSIA members, please send an email to shane.oates@lpi.nsw.gov.au.

Content submission deadline for the September 2014 edition is Friday 22nd August 2014

GeoCart'2014, 42nd ANZMapS Conference and 3rd ICA Symposium on Cartography for Australasia and Oceania

3-5 SEPTEMBER 2014

The University of Auckland, Auckland, New Zealand

The seventh National Cartographic Conference **GeoCart'2014**, 42nd **ANZMapS Conference** and the 3rd **ICA Symposium on Cartography for Australasia and Oceania** will be running together this year and convene in Auckland, 3-5 September 2014. It will be held at the outstanding facilities of The University of Auckland in the City of Sails - Auckland, New Zealand. <https://www.auckland.ac.nz>

GeoCart'2014 aims to bring together a wide cross section of professionals, researchers and enthusiasts engaged in cartography, map curatorship and research, geovisualisation and GIScience, to promote new techniques in, and a greater understanding of cartography and mapping.

Keynote Speakers include:

- Kenneth Field, ESRI, USA
- Will van den Hoonard, Saint Thomas University, Canada
- Kristoffer Kristiansen, Norwegian Mapping Authority, Norway
- Granville Allen Mawer, Australia

Special Presentation by:

- Georg Gartner, President of the ICA, Austria

NZCS Map Design with ArcGIS Workshop (MDW'2014)

The Conference will be preceded by the Map Design with ArcGIS: Mapping the 3rd Dimension Workshop, 1-2 September 2014, organised by the New Zealand Cartographic Society within its EduCart initiative. It is the continuation of the highly successful Workshops run in 2010 and 2012.

GeoCart'2014

Cartographic Journeys through Space and Time

**Auckland
New Zealand**

3-5 September 2014

GeoCart'2014 is jointly organised by the New Zealand Cartographic Society and Australian and New Zealand Map Society.



The Conference is endorsed by the International Cartographic Association (ICA)



GeoCart'2014 Important Dates

Deadline for abstracts submission ————— **7 July 2014**

**Decision on submissions relayed
to author (s)** ————— **28 July 2014**

Deadline for revised submissions **11 August 2014**

Deadline for early bird registration **8 August 2014**

GeoCart'2014 Conference **3–5 September 2014**

HOW CARTOGRAPHY LED TO A 'MAGNIFICENT OBSESSION'

I wasn't particularly looking for a new interest, being quite absorbed in the new Small Craft Chart program, for which I was responsible, at the Department of Harbours and Marine in Brisbane using Aerial Orthophoto and Satellite acquired imagery as bases.

An interruption to these endeavours came by way of a call from the Press Secretary of the then responsible Minister, who also held the Tourism Portfolio, seeking mapping information with regard to a proposed aquatic event to be called the 'Pacific 1000' involving an Offshore Powerboat Race to be conducted in stages from Cairns to Gold Coast and calling at major tourist centres in between to be used as a vehicle to boost tourism awareness at those centres. His concern was that race organizers needed race specific thematic charts of the whole course, could I help him and the race was scheduled to start in a couple of week's time.

A couple of weeks was far too short of a reasonable time frame to do this job properly so we opted to fill the gap by hurriedly creating strip maps based on copied Admiralty Charts with an understanding that if the event was a success and a satisfactory budget became available we could do a professional job on it next year.

This first event was a success and adequate funding became available for it to continue, enabling us to produce an A3 size atlas of strip charts showing courses between heading change points with both textual description and graphic imagery of the appearance of each new heading point. Offshore race boat crews didn't have the luxury of being able to use conventional navigation equipment as they were too busy maintaining the highest possible speed in sometimes very rough seas and navigation points passed very quickly. GPS was then merely a dream. (I still have a few of these atlases and probably should enquire as to whether they might be of interest for archiving).

After the completion of the first race I was invited on to the race committee to co-ordinate the chart production exercise and steadily became interested in other facets of the organization, initially in the promotion aspects of the event. This quite quickly led to my involvement in all areas and ultimately to appointment as Race Director but it was in the area of promotion and publicity that I was most interested as it became very obvious that these were the central areas to the success of the whole event. I became reasonably skilled in writing copy, had many, many articles published in magazines and had developed a mailing list for press releases to newspapers Nationwide.



A massed rolling start off Gold Coast.



Stefan gets airborne with media chopper above.

During the race it was essential to have timely vision footage available to media channels and this was accomplished by arranging for our own video acquisition using a professional cameraman in a surveillance chopper and prearranging for access to the video links available at the various centres along the way. After linking the camera footage through to all media outlets we would follow closely with a media release covering the days racing with an invitation to phone for more detail or phone interview. This procedure resulted in very extensive coverage and awareness of the event and very few members of the public did not know about the Pacific 1000.

***“John Haines Snr.,
founder of Haines Hunter
and Signature boats and
immortal in powerboat
racing circles, likened the
driving of an offshore
race boat to standing fully
dressed under a cold
shower tearing up \$100
bills whilst being battered
in the back with a
baseball bat”***

As in all sports, interpretation of rules and value judgements have to be made by officials and my most memorable incident was at Hamilton Island where I was captured on National Television trying to placate a very irate Stefan Ackerie, the famous Queensland hairdressing businessman and noted offshore powerboat racer. Stefan was demanding to know why I as Race Director had stopped the race because one of the course officials had radioed in that a fatality was very likely to occur due to extremely rough conditions if the race continued.

Offshore powerboat racing is very expensive (read multitudes of blown up engines) and can be a physically demanding sport depending on uncontrollable sea conditions from dreamlike calm to horrendously rough. The late and great John Haines Snr., founder of Haines Hunter and Signature boats and immortal in powerboat racing circles, likened the driving of an offshore race boat to standing fully dressed under a cold shower tearing up \$100 bills whilst being battered in the back with a baseball bat.

Apart from deriving immense personal satisfaction from my direct involvement in the event I was very pleased to be able to also involve two of our sons. One as official still photographer and later a place for him as co-driver in one of the race boats whilst our youngest still in year 12 very capably performed as helicopter refuelling operator, driving a sponsor provided vehicle from Brisbane to Cairns together with a mate and arranging for the supply and delivery of A1 Jet fuel to landing points along the way including arranging for dumping of 44gallon drums slung under a chopper on an isolated and otherwise inaccessible island. Our own aerial surveillance and the media helicopters did not have sufficient range to cover some of the longer stages and had to be refuelled enroute and also set down and wait for the race fleet to pass and then catch up in order to conserve fuel.

My obsession with this event came to a fairly abrupt end courtesy of the Air Pilots strike in the 1980's. Government funding had ceased by then and I had just completed discussions with the late Keith Williams, owner of Hamilton Island and Sea World at the time, about continued sponsorship after our successful partnership in the previous year's race when the untimely strike occurred doing untold and ongoing damage to the Queensland Tourism Industry and sending many tourism related businesses into liquidation including Hamilton Island. I struggled on for a few years after that trying to reignite interest in sponsorship without any great success.

After the great satisfaction derived from the growth of our family (children and grandchildren) this was clearly the next most enjoyable period of my life, eclipsing my involvement in helping to found our Queensland Division of the Australian Institute of Cartographers, being a Foundation Director of the Queensland Professional Credit Union, serving many years as Senior Vice President of the Queensland Professional Officers Association and heading up the excellent charting unit at H & M. At an International offshore powerboat racing event just over a decade ago the prerace briefing was interrupted for one minute of silence to respect the death of Bryce Beikoff. Apparently this mistake was initiated when the responsible officials picked up on an item from MSIA executive minutes incorrectly recording my demise. So now that I have been so honoured I have to just wait until it is activated.

Bryce Beikoff,

Honorary Fellow Australian Institute of Cartographers.
Immensely proud to have been a Cartographer.



Poster at Gold Coast for last incarnation of the great race from SeaWorld to Hamilton Is.

MAP OF THE MONTH

New Geology Map of Mars

A new global geologic map of Mars – the most thorough representation of the "Red Planet's" surface – has been published by the U.S. Geological Survey.

This map provides a framework for continued scientific investigation of Mars as the long-range target for human space exploration.

Map Abstract

This global geologic map of Mars, which records the distribution of geologic units and landforms on the planet's surface through time, is based on unprecedented variety, quality, and quantity of remotely sensed data acquired since the Viking Orbiters.

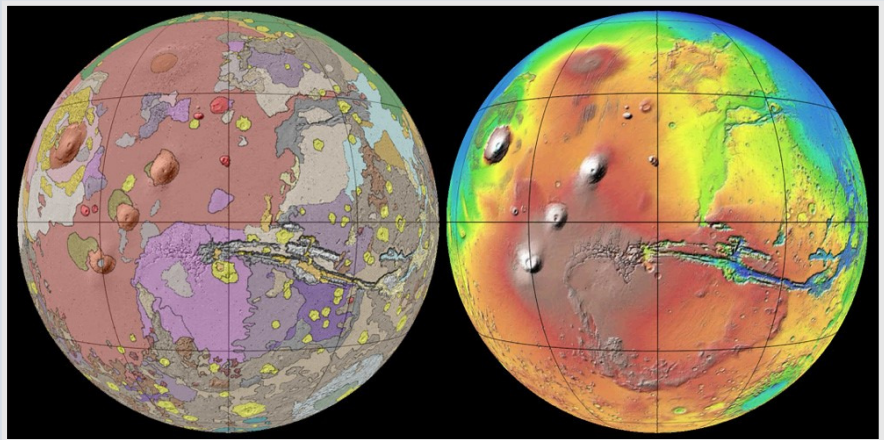
This data has provided morphologic, topographic, spectral, thermophysical, radar sounding, and other observations for integration, analysis, and interpretation in support of geologic mapping.

In particular, the precise topographic mapping now available has enabled consistent morphologic portrayal of the surface for global mapping

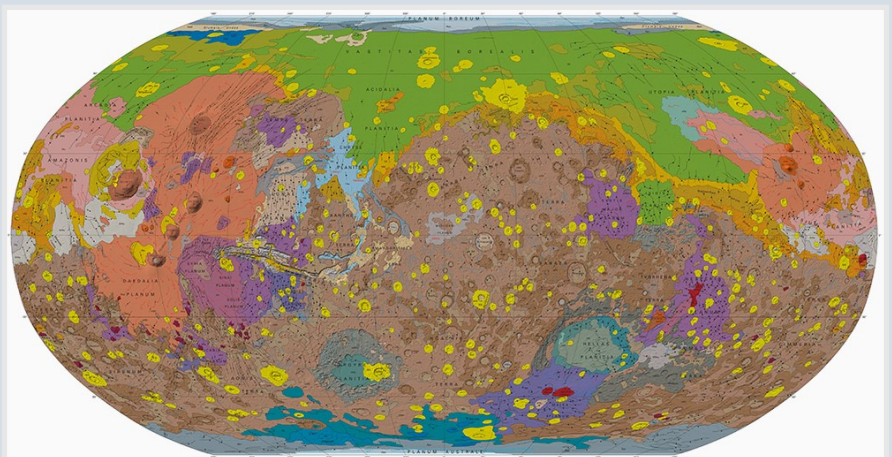
(whereas previously used visual-range image bases were less effective, because they combined morphologic and albedo information and, locally, atmospheric haze). Also, thermal infrared image bases used for this map tended to be less affected by atmospheric haze and thus are reliable for analysis of surface morphology and texture at even higher resolution than the topographic products.

Reference

Tanaka, K.L., Skinner, J.A., Jr., Dohm, J.M., Irwin, R.P., III, Kolb, E.J., Fortezzo, C.M., Platz, T., Michael, G.G., and Hare, T.M., 2014, Geologic map of Mars: U.S. Geological Survey Scientific Investigations Map 3292, scale 1:20,000,000, pamphlet 43 p., <http://dx.doi.org/10.3133/sim3292>.



Caption: Geologic map of Mars on the left, elevation map on the right. USGS
Source: <http://www.usgs.gov/newsroom/article.asp?ID=3935#.U8xg1RCSxTK>



Caption: Detailed map extracted from Geological Map of Mars. USGS
Source: <http://www.usgs.gov/newsroom/article.asp?ID=3935#.U8xgpRCSxTI>

Ground features observed from aerial photography.

Every now and then while processing aerial photography at NSW Land & Property information, the Imagery and Elevation team discover unique features built upon, placed or simply carved into the landscape of New South Wales.

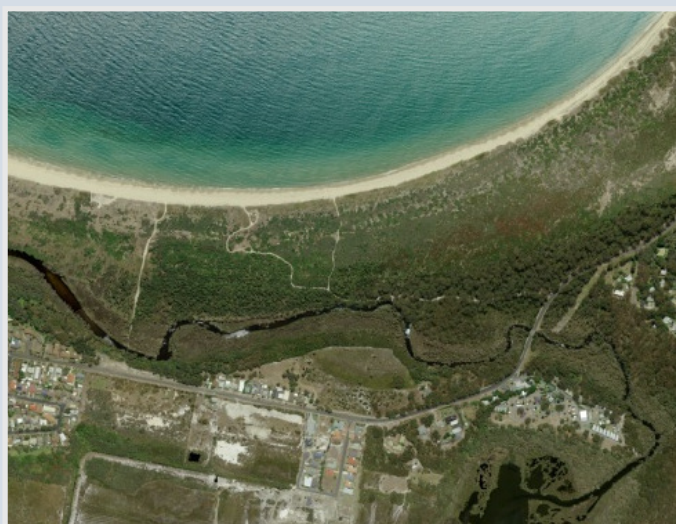
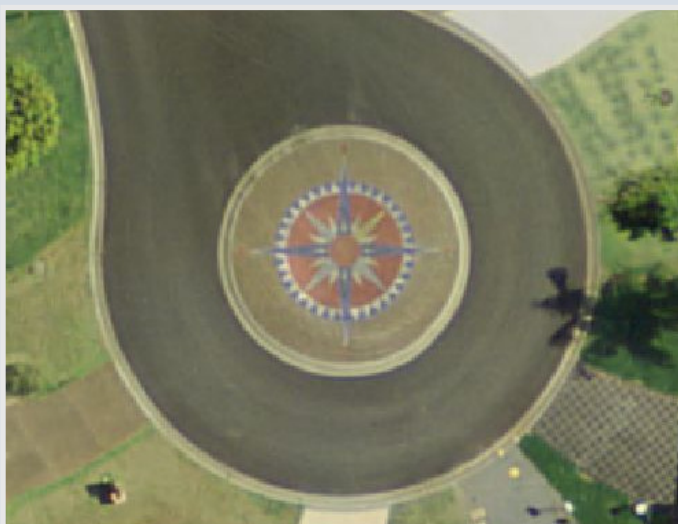
Below are two examples of such discoveries.

The first image on the left is of a “compass rose” placed into a cul-de-sac in Port Macquarie, located on the Mid North Coast of NSW. An interesting feature for a residential street, and surely a talking point for the local residents.

Some imagination is required for the second image on the right.

In this image, we have a water feature at South West Rocks, also located on the Mid North Coast of NSW. At first I couldn't see anything popping out, however colleagues kindly described the shape of a child with an outstretched arm playing with a ribbon in the wind.

Can you see it?



Contact Us

Visit our website www.mappingsciences.org.au or email us for more Information about our organisation.

National

Mapping Sciences Institute, Australia
GPO Box 1817
Brisbane QLD 4001

Fax: (07) 3219 2281

Email:

national.secretary@mappingsciences.org.au

MSI-Connected Editor

Email:

shane.oates@lpi.nsw.gov.au

Not a MSIA member?

If you are not a MSIA member and wish to join our organisation, please visit;

www.mappingsciences.org.au/new-members/

The four levels of membership and associated costs vary depending on academic qualification, relevant and professional experience, and willingness to further the objects of the Institute.

Member: - \$170 (retired \$85 per year)

Associate Member: - \$170 (retired \$85 per year)

Affiliate Member - \$170 (retired \$85 per year)

Student Member - \$26

Fees are per year and include GST.