

Te Rōpū Kairūri o Aotearoa
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FIG Working Week in Christchurch

Five years of planning and preparation resulted in a fantastic and successful FIG Working Week in Christchurch, early May. It was a huge success with nearly 800 international, local and young professional delegates attending the Horncastle Arena and Addington Raceway venues. Over thirty sponsors, partners and exhibitors helped make the event commercially possible, and ensured delegates got taste of the latest technologies available to the industry. With over 80 technical sessions delegates were spoilt for choice in what they wanted to attend.

Some figures on what it takes to make an event like this successful:

- 475 plus international delegates
- 160 plus local delegates and partners
- 118 young professional delegates
- 80 plus technical sessions
- 72 nationalities represented
- 48 sponsors, partners and exhibitors



A welcome to all from NZIS President, Mark Allan, at the conference opening.



Plenary Session 1 at Horncastle Arena, 3 May

COPY DEADLINES



NEWSLINK:
20th of each preceding month

SURVEYING+SPATIAL:
For the September 2016 issue is
1 August 2016

News and Announcements

LINZ GOES TO MARKET FOR ASATS

LINZ went out to market for its Advanced Survey and Title Services project in April. ASaTS will update and expand the range of services offered by the Landonline system for property transactions.

The Tender Notice was posted on GETS: <https://www.gets.govt.nz/LINZ/ExternalTenderDetails.htm?id=17434054>

Read more information on ASaTs: <http://www.linz.govt.nz/about-linz/what-were-doing/connecting-property-information/advanced-survey-and-title-services-asats-programme>

NZIS PRESIDENT'S UPDATE #3

NZIS President, Mark Allan's latest message emailed 26 April is available on the website.

View here: <http://www.surveyors.org.nz/Attachment?Action=Download&Attachmentid=2240>

OBITUARIES

It is with sadness we record the passing of the following people:

Gordon Noel Elliston, Birkenhead, Auckland, 11 March 2016.

[NZ Herald Notice](#)

Louis (Lou) Clements, Pakuranga Auckland, 14 March 2016.

[NZ Herald Notice](#)

Frank Easdale, Auckland, 12 April 2016.

[NZ Herald Notice](#)

Owen Amor, Nelson, 28 April 2016.

Important Dates

NZ SPATIAL EXCELLENCE AWARDS 2016

The date for the Awards has been set for Wednesday 16 November this year's awards at Te Papa Tongarewa. Watch the website for updated information <http://nzspatialawards.org.nz/>

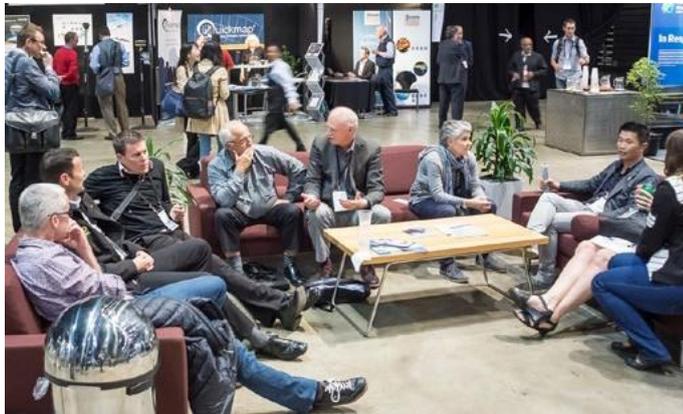
NZIS ANNUAL GENERAL MEETING

Due to the FIG Working Week replacing the annual NZIS conference, the AGM will be held in Wellington, 27 November 2016. The venue is tbc.



Delegates!

- 18 Local Organising Committee members
- 15 FIG sessions
- 11 plenary presentations
- 9 social functions
- 9 technical tours
- 5 pre-conference events
- 6 PCO staff
- 4 busdrivers
- 2 gala dinners
- 2 functions to welcome and farewell visitors.
- 1 exhibitor open session
- 1 prospectus, programme and website.



Relaxing in the Exhibition Hall

Working Week Links

- For more information: <http://www.fig.net/fig2016/index.htm>
- Download Technical Session papers: <http://www.fig.net/fig2016/proceedings.htm>



Horncastle Arena – Exhibition Hall



Merino Beanies Available

We have several Merino beanies left over from the FIG conference. These were specially designed and made for NZIS and are available at the special price of \$29+gst.

If you would like to purchase one, please email jane@earthseasky.co.nz

2016 Awards of Excellence

There will be no Award of Excellence for 2016 to allow for a full review of the awards structure. Members will be asked to comment on the future structure of the awards and this will be an agenda item for the AGM in November.

To view previous Award entry winners see: http://www.surveyors.org.nz/Category?Action=View&Category_id=143

Please email National Office: nzis@surveyors.org.nz if you wish to get involved in the review process.



Welcome to New Staff Member



Tara Govind has started at National Office as Event and Office Administrator replacing Jenna who has taken up a role with PINZ. Tara's first week was spent at the FIG Working Week in Christchurch which gave her a rapid introduction into the world of surveying and spatial.

After completing her Bachelor of Commerce and Administration, majoring in Marketing, Management and Public Policy, Tara has worked in various administration roles. She's passionate about marketing and events management and aims to further her career in this field.

Outside of work Tara is impressively active in sports; she has a black belt in karate and is a member of Poneke Dojo, a Kyokushin Karate organisation. She has been doing karate for almost 15 years and attained her black belt in October 2013 after an enduring physical and mental test. Tara also volunteers as a Secretary for the Wellington Indian Sports Club, who she has played hockey for and been a member for most of her life. Tara also enjoys art, baking and the outdoors.

Tara can be contacted at: taragovind@surveyors.org.nz



Professional Exams 2016

Congratulations to all the recent candidates who attended the Cadastral License and the Professional Entrance exams. There was a high turnout for both sets of exams and also an excellent pass rate of candidates. The overall statistics we have collected for the 2016 exams are as follows.

2016 – Cadastral Exams

- 49 candidates
- 41 passed
- 8 failed
- Highest mark = 88.3%
- Achievement average = 68%

2016 – Professional Exams

- 12 candidates
- 8 passed
- 4 candidates required requisitions

Candidates will be notified of their results as soon as various requisition items are completed. Contact vanessa@surveyors.org.nz if you have any queries.

November 2016 NZIS Professional Entrance Exams

Bookings are open for the November Professional Entrance Exams.

See the instructions here: http://www.surveyors.org.nz/Event?Action=View&Event_id=273



Continuing Professional Development – What’s Coming Up

May Events

- **NZIS Coastal Water Seminar** – New Plymouth 24th May.
Book Now: http://www.surveyors.org.nz/Event?Action=View&Event_id=272

June Events

- **Webinar – Business Networking at Events** – 1st June.
Book Now: http://www.surveyors.org.nz/Event?Action=View&Event_id=259
- **Subdivision Design** half day workshop – Wellington June 27th, Christchurch June 28th, Auckland June 29th, Tauranga June 30th

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Ed Kelly
Survey Manager
Waikato Expressway – Huntly Section
Fulton Hogan HEB Joint Venture



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July/August Events

- **Earthquake Hazard Modelling** workshop – Date TBA
- **UAV Data Capture** webinar – Date TBA
- **Health and Safety Software Applications** webinar – Date TBA
- **Cross Lease Seminar** – Date TBA

Ongoing Events and Products

- **Health and Safety** – Revised H & S Handbook and Hazard Register – This has been updated to meet the recent 2016 H & S regulations.
- **Ongoing – Business Skills Training** – Open for ongoing training 2015-2016
- **Webinar downloads** – view anytime video library.

Business Skills Training on Demand

We have brokered a special rate for members who wish to do complete CDL Insight online training. These are high quality courses for those who wish to develop their business skills.

Courses are available in the following categories:

- Communication and Interpersonal Skills
- People Management Skills
- Leadership Skills
- Team Effectiveness
- Business and Personal Effectiveness
- Sales Skills
- Change and Resilience
- Retention and Engagement

See the following ad and book your courses online:

<http://cdlinsight.co.nz/solutions/leadership-development/staff-development-programmes>

Use the NZIS code: **NZIS01 (NZIS zero one)**.

The advertisement features the CDL Insight Consulting logo with the tagline 'CHANGE • DEVELOP • LEAD'. It includes social media icons for Facebook, Twitter, YouTube, and LinkedIn. A map shows office locations in Auckland, Wellington, and Christchurch, with a dropdown menu for 'New Zealand'. The main content area is titled 'Staff Development Programmes' and lists upcoming short course dates:

Location	Course Title	Date
Auckland	Introduction to Supervision	10 Feb 2016
Wellington	Leading Change	8 Sep 2016
Christchurch	Emotional Intelligence	3 Feb 2016

A 'View All Dates' button is also present.

NZIS Webinar Library

See the NZIS National Calendar to book your webinar space:

http://www.surveyors.org.nz/Calendar?Action=View&Calendar_id=1

LEGISLATIVE NOTES

Summaries of cases from Thomson Reuter's Your Environment and Alert24 – Land.

This month we report on five court decisions covering diverse situations associated with subdivision, development and land use activities from around the country:

- A majority decision of the EC on an appeal by Central Otago District Council against refusal of consent to a proposed non-complying rural-residential subdivision at Lowburn on the grounds that it would create adverse cumulative effects;
- An unsuccessful application for judicial review of a decision by Wellington City Council to grant consent on a non-notified basis to a proposed subdivision at Houghton Bay on Wellington's south coast;
- A declaration that enabled removal of a "notable" Norfolk Pine tree at Mount Albert, where its condition endangered the land-owner's life and property;
- A case from Taranaki that highlights Council responsibilities for including protection of "significant natural areas" of vegetation and habitats in district plan policies, confirming that voluntary protection methods cannot be relied upon by the community;
- The final order issued for removal of a children's play structure and fence that had been built to

Log-in and download the pdf of the summaries at:

http://www.surveyors.org.nz/Category?Action=View&Category_id=655

Previous Notes are available at:

http://www.surveyors.org.nz/Category?Action=View&Category_id=675



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ASaTs

LINZ is working to find a supplier for its Advanced Survey and Title Services project (ASaTs), which will replace the Landonline system for property transactions.

The aim is to have ASaTs in place by 2021. It will expand the services LINZ offer to customers, allow them to hold a complete picture of all land in New Zealand and help to link property data held across government.

Surveyors and conveyancers will be able to plug their own software into the system and use it on their tablets and mobiles. ASaTs would enable the 3D digital representation of property rights and there's potential for it to improve survey processes like survey plan generation and CSD capture.

At this stage LINZ is talking to vendors about these ideas as part of the procurement process. Once LINZ has developed and documented these ideas it will consult with customers and others to get their feedback.

Read more about ASaTs and what it will mean for surveyors, conveyancers and homeowners: <http://www.linz.govt.nz/about-linz/what-were-doing/connecting-property-information/advanced-survey-and-title-services-asats-programme>

More information on potential innovations for surveyors will be discussed in the June issue of *Surveying and Spatial*.

LINZ to improve coordinate accuracy

LINZ has two major projects underway to improve the accuracy of its coordinates.

In June 2016, it plans to release a new national vertical datum as well as an update that will make its geodetic coordinates more accurate.

New Vertical Datum

New Zealand Vertical Datum 2016 will be accurate to more than 3cm in urban areas. This is based on improved data gathered from gravity flights over the country.

Coordinate update

The June coordinate update will impact almost all Order 1-6 geodetic marks (about 80,000 marks).

Updated coordinates will be available in Landonline and the Geodetic Database. The update will make life easier for users of geodetic coordinates as the improved accuracy will reduce conflicts between user data and LINZ data that can take time to resolve. Over time, this increased geodetic coordinate accuracy will improve the accuracy of aligned datasets, such as the digital cadastre

LINZ plans will keep surveyors updated as it works to introduce both the new datum and the coordinate adjustment.



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See it Now



NZIS Advocacy & Legislative Update

Canterbury Property Boundaries and Related Matters Bill:

The Select Committee Report has been released on this bill and is now available to view at:

- Link to Select Committee report: http://www.parliament.nz/resource/en-nz/51DBSCH_SCR68923_1/7b69b442035e23a7b091efb00d65c14cd9b821c1
- Link to the Bill: <http://www.legislation.govt.nz/bill/government/2015/0082/latest/DLM6634505.html#DLM6634535>

Cadastral Survey Act 2002 – Working Party

The Working Group will be sending out a brief survey to members focusing on Section 52.

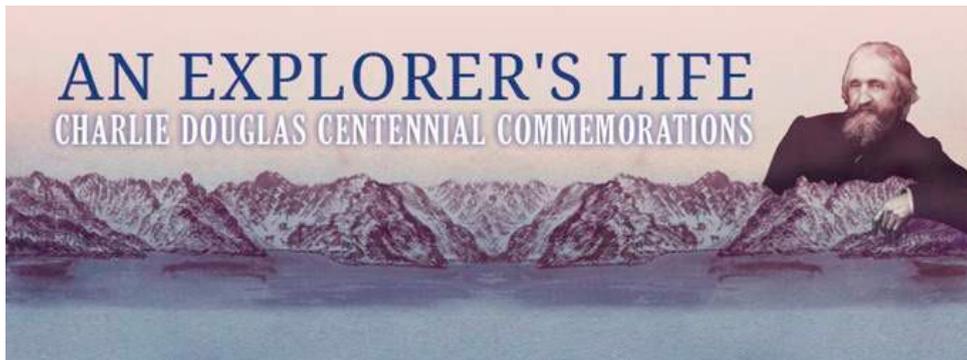
View the group's Terms of Reference here:

http://www.surveyors.org.nz/Category?Action=View&Category_id=158.

If you have something to contribute or have questions around any of these processes please get in touch with our Relationship Manager, Lauren: laurenmcgee@surveyors.org.nz



Hokitika to Celebrate a Great NZ Explorer in June



Hokitika is to host a celebration of the life of Great NZ explorer, Charlie Douglas during Queens Birthday Weekend in June.

Charlie Douglas explored and mapped many areas on the West Coast for the Department of Lands and Survey during the late 19th century, and most extensively in South Westland. He was a notable personality, well known for his wit as well as his legendary explorations. This year marks the 100th year since his death in Hokitika.

A group consisting of DOC, the Hokitika Museum, the Hokitika Regent Theatre, Heritage Hokitika, Te Rūnanga o Makaawhio, Heritage New Zealand and LINZ are working together to produce the weekend of events to mark Charlie's life and achievements. Along with guided walks and an exhibition at the Hokitika Museum, the Regent Theatre will host an evening of illustrated talks, expert speakers, performances and a launch of the reprint of Graham Langton's revised edition of the Pascoe classic "Mr Explorer Douglas".

Mark Davies, DOC Western South Island Director of Operations says as well as being a notable explorer, Charlie's journals supply information about the West Coast environment before the effects of European settlement and the associated influx of predators were widely understood. "Charlie's accounts of Westland detail a land rich in birdlife, stories that are difficult to comprehend today. Stories of kakapo gathering in screeching mobs around camps and musings of the possibility of taming fantails for sandfly control point to the land of birds that New Zealand once was".

People interested in attending the event can book tickets, and find out more information at:

<http://www.hokitikaregent.com/page-events.php>

or check out the Facebook page <https://www.facebook.com/CharlieDouglasCentenary/>



Members' Benefits

COSTDRIVER – Discount on Mobilcard

Discount on Mobil fuel for NZIS members.. For more details:

http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=2249

To apply: www.costdriver.co.nz/fuel

Standards New Zealand

As a member of Standards New Zealand we receive the following:

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- A convenient 30-day credit account for purchases of all our goods and services.

Orders can be placed through nzis@surveyors.org.nz

For further information on national, joint, and international standards and related news:

www.standards.co.nz.

Cardplus – Spark and Z-energy Discounts

Discounts are available through Cardplus on Spark accounts and Z energy. See the links below for the application form and information sheet.

Information Sheet: http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=839

Application Form: http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=40



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PROFESSIONAL STREAMS AND BRANCHES

Cadastral Survey of the Year Award – Get Your Entries Ready



The Cadastral Stream is pleased to announce that submissions for the 2nd Annual Cadastral Survey of the Year award is now open.

Last year's inaugural award was taken out by Tony Nikkel for a high quality survey of a remote high country subdivision. Tony's survey, as well as the second and third place getters are available to be viewed on the Cadastral Survey Award's webpage:

http://www.surveyors.org.nz/Category?Action=View&Category_id=898

This year's award will be presented at the NZIS AGM in Wellington on 27 October 2016. The Gold Award winner will be presented with a plaque and a \$500 cheque kindly sponsored by LINZ. The Gold, Silver and Bronze winners will all have their travel expenses up to \$500 reimbursed by the NZIS Cadastral Stream.

Any datasets approved as to survey within 3 years of the closing date (5 August 2016) are eligible to enter. We encourage you to enter and get recognition for your outstanding cadastral surveys.

The requirements for your submission/s are available on the [Cadastral Stream webpage](#).

If you have any questions please contact the Cadastral Stream representative, Darren Hocken – djh@eliotsinclair.co.nz, 03 3794014.

FIG's recent article of the month for March 2016 was "Positioning in Active Deformation Zones – Implications for NetworkRTK and GNSS Processing Engines", by Paul Denys and Chris Pearson – both of whom are active members of our stream. They presented this paper at the FIG Working Week in Christchurch in May. Below is an outline summary of topics covered in their paper:



New Zealand is subject to earthquakes that result in instantaneous block shifts and other geophysical processes that cause continuous deformation which is imperceptible to humans, but still affect precise survey measurements. This latter category includes tectonic plate motion, post-seismic relaxation and slow slip events. Neither post-seismic nor slow slip deformation can be described by a constant velocity. NetworkRTK (NetworkRTK) and GNSS processing engines need models that can correct for deformation. While PositionNZ-PP has a sophisticated model that can correct for known types of deformation on the New Zealand plate boundary, most commercial NetworkRTK software can only apply velocities that are assumed to be linear. There are two aspects that need to be considered. The first is the ability to model the reference station coordinates accurately, e.g. NetworkRTK. Secondly, the ability to model and transform non-reference station coordinates to the local datum, e.g. a rover or users position computed using NetworkRTK and the positions derived from a GNSS processing engine. For reference

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station coordinates, geodetic time series modelling can be used to accurately model both linear and non-linear deformation. But it becomes more challenging to model non-uniform deformation at non-reference positions.

The full paper is available at: http://www.fig.net/resources/monthly_articles/2016/denys_pearson_march_2016.asp.



A recent Science magazine article, “Climate-driven polar motion: 2003–2015”, describes how scientists have linked changes in the earth’s axis of rotation to changes in the distribution of ice mass near the poles as a result of climate change. Inside GNSS has a synopsis of the research (<http://www.insidegnss.com/node/4913>), or the full paper is available at: <http://advances.sciencemag.org/content/2/4/e1501693.full>.



LINZ recently announced the establishment of PositioNZ site WRPA, notable in that it is “the first and only station in the PositioNZ network to be streaming Multi-GNSS (GPS+GLO+GAL+BDS+QZ)”. Corrections are being streamed in the RTCM 3.2 MSM format, and LINZ advises: “this format will be rolled out across the network so any feedback would be greatly appreciated. Please inform us if you have any issues using the new format.”



On the topic of multi-constellation GNSS, China’s Beidou successfully launched its 22nd satellite on 30 March, and remains on schedule for Beidou to be fully operational as a global system by 2020. The EU’s Galileo system has the launches of its 13th and 14th satellites planned for May, with 18 Galileo satellites due to be in orbit by the end of 2016 - only 13 years behind schedule and 3 times over budget, as described in a recent Spatial Source article: <http://www.spatialsource.com.au/2016/02/16/galileo-over-budget-13-years-behind-schedule/>. The Indian Regional Navigation Satellite System (IRNSS) also launched another satellite in March, and now has 6 satellites in orbit (although this system is of little benefit to GNSS users in NZ). Add these to the 30 GPS satellites, the 26 GLONASS satellites, and a lonely QZSS satellite and that’s a total of nearly 100 navigation system satellites and growing. And while not all these GNSS satellites pass over NZ skies, it does demonstrate an under-utilisation of available GNSS signals if persisting with legacy GPS-only receivers.



Image: IDS’s IBIS-FM radar unit, Source: www.mining-technology.com



This month's image is of an IBIS-FM, a modular long-range rapid scan synthetic aperture radar unit, one of IDS Corporation's range of radar equipment for monitoring slope stability. The IBIS-FM unit is described as being capable of "continuously measuring mine wall/slope movements with sub-millimetre accuracy from distances up to 4 km".



SCHOOL OF SURVEYING

Graduate Recruitment – Advertising and Interviewing 2016

The School of Surveying wishes to advise that the student recruitment period in 2016 will be:

Job Advertising/Marketing Period

Starts 18 July - Finishes 31 July

(Please note - students return from their mid-year break on Monday 11th July.)

An A4 advertising poster should be (save as a Word or PDF document) attached and emailed to: margaret.newall@otago.ac.nz

Interviewing Period

1st August - Finishes 19th August

Employers seeking assistance (to reserve interviewing space, presentation rooms etc) – are requested to adhere to these dates.

Employers are also invited to advertise on the OUSSA Student facebook page.
For further information please contact rauta405@student.otago.ac.nz.

For further information:

Margaret.newall@otago.ac.nz Phone: 03 4797585



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Senior Survey Advisors

(Wellington, Christchurch, Hamilton)

The Surveyor-General's vision is to have a world leading survey system founded on principles of integrity, completeness and accuracy, that supports New Zealand's economy, contributes to community resilience, aids democratic decision making, and enables sustainable development. The survey system needs to enable connections between engineering, earth sciences and applied geography to inspire better decisions and innovation.

Senior Survey Advisors play an integral role in realising this vision, through providing advice and contributing to initiatives which have long term benefits for the development of the survey system.

We have two positions to fill in the Office of the Surveyor-General – one in Wellington, and the other in any of our three offices.

We are looking for cadastral surveying professionals with broad experience across the survey and property development sector to help drive forward our significant programme of work. A thorough understanding of the cadastral survey system and its records is essential.

Your excellent communication skills and a willingness to work collaboratively will enable you to build strong relationships within the team, across LINZ and with stakeholders. You are passionate about using your expertise to solve problems and help contribute to the development of the digital cadastral system and world class systems for managing property data.

LINZ has a great culture with a strong focus on personal and professional development. We can offer a stimulating work environment, engaged colleagues, interesting work you won't be able to do anywhere else and plenty of flexibility in how you get the job done.

Apply online at <https://careers.linz.govt.nz> and submit your CV and cover letter outlining your skills and experience for this role. We are looking for evidence of how you meet each of the key selection criteria.

Applications close 23 May 2016.

For further information please contact Anselm Haanen on 04 460 0376 or email opportunities@linz.govt.nz.



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The applicant should preferably have:

- Knowledge of CAD, eSurvey and 12d
- Good communication skills

For more information, or to lodge an application, please contact:

Robin Patterson
Director
Paterson Pitts Group
19 Reece Crescent
P O Box 283
Wanaka 9343

Phone: (03) 443 0110
Email: robin.patterson@ppgroup.co.nz

All applications and enquiries will be treated in the strictest confidence.

ADVERTISING RATES

Copy Deadlines

NEWSLINK: Copy Deadline is the **20th** of each preceding month.

SURVEYING+SPATIAL: Copy Deadline for the **September 2016** issue is **1 August 2016**.

Editor: Diane Moriarty survey.editor@yahoo.co.nz

NZIS Publication Advertising Rates

SURVEYING+SPATIAL

2015 SURVEYING+SPATIAL RATE CARD	Quarterly magazine distributed to all NZIS members and subscribers.	Exc gst
Inserts (one A4 sheet – double sided)		\$1000
Inset (up to 8 A4 sheets – double side)		\$1500
Multi A4 publication limits apply)		\$2000
A4 – back cover	210 x 297 mm + 5mm bleed top, bottom and left hand side	\$1200
A4 – inside Front cover	210 x 297 mm + 5mm bleed top, bottom and left hand side	\$1000
A4 Inside Back Cover	210 x 297 mm + 5mm bleed top, bottom and right hand side	\$1000
Full page ad – main body	180 x 270 mm no bleed, or 210 x 297 mm + 5mm bleed all four sides	\$800
Half page ad – main body	165 x 120 mm (horizontal) or 80 x 250 mm (vertical)	\$500
Quarter page ad – main body	165 x 57 mm (horizontal) or 80 x 120 mm (vertical)	\$300
Minis	80 x 49 mm (horizontal only)	\$150

NEWSLINK

2015 Newslink Rate card (Member/key partner)	Monthly online Newsletter. Note: 1 column is 7.5cm in width; 2 columns are 15.5cm wide.			
Full page height	27cm x 1 column (\$12/col cm)	\$324	27cm x 2 columns	\$648
Half page height	13cm x 1 column (\$15/col cm)	\$195	13cm x 2 columns	\$390
Quarter page height	6cm x 1 column (\$17/col cm)	\$102	6cm x 2 columns	\$204
2015 Newslink Rate card (non-member)				
Full page height	27cm x 1 column (\$20/col cm)	\$540	27cm x 2 columns	\$1080
Half page height	13cm x 1 column (\$22/col cm)	\$286	13cm x 2 columns	\$572
Quarter page height	6cm x 1 column (\$25/col cm)	\$150	6cm x 2 columns	\$300

WEBSITE

NZIS Website Classifieds		
NZIS Member/key partner	3 months exposure	\$60
Non-member	3 months exposure	\$140

NOTES:

- Copy deadline for *Newslink* is the 20th of each preceding month.
- Copy deadlines for *Surveying+Spatial* 1 February, 1 May, 1 August, 1 November.
- Payments: Overseas payments are required to be paid in \$NZ with all international bank transfer charges included.

Artwork requirements: Please supply one of the following (presented in order of preference):

- A press-ready (ie hi-res) pdf using CMYK colours (or greyscale if b+w only), with all fonts embedded
- A CMYK (or greyscale if b+w only) tiff file of 300dpi resolution or greater
- A CMYK (or greyscale if b+w only) maximum quality jpeg file.

Email artwork files to: janlawrence@surveyors.org.nz,

Post to: NZIS, PO Box 5304, Wellington 6145, New Zealand

