

newslink

NEW ZEALAND INSTITUTE OF SURVEYORS

Te Rōpū Kairūri o Aotearoa
www.surveyors.org.nz

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COPY DEADLINES



NEWSLINK:
20th of each preceding month

SURVEYING+SPATIAL:
For the June 2016 issue is
1 May 2016

Invitation

Are you coming to FIG Working Week in Christchurch?



FIG 2016 is excited to share the preliminary technical programme for the 2016 conference! It is shaping up to be another great FIG experience and we hope you can come to Christchurch, New Zealand from 2–6 May to join in the fun. Register by 8 February and you will save \$69 with the early bird fee!

FIG Working Week, 2–6 May 2016, Christchurch, New Zealand, is an exciting week-long conference that brings the international community of surveying and spatial professionals together to share innovative science with policymakers and stakeholders. Scientists, policy- and decision-makers, students, and stakeholders are invited to join the discussions on issues affecting the international surveying and spatial community today and in the future.

Unveiling the latest innovations and technological thinking, the peer-reviewed technical papers remain the cornerstone of each stream and the FIG Working Week. We have received around 400 papers of which 60 papers have undergone the double-blinded peer-review process and graded on relevance, originality, breadth, completeness and clarity.

The programme will be underpinned by invited high-level presentations in three plenary sessions covering topics within the overall theme *Recovery from Disaster*. The nine powerful keynote speakers will set the stage on knowledge sharing and cover best practices, trends and case studies. Presenters include:

(see over page)



Upcoming Events

FEBRUARY

CANTERBURY BRANCH BREAKFAST MEETING

Wednesday 17 February 2016, 7:15am–9:00am
Christchurch RSA – Trenches Restaurant – 74 Armagh Street

Register for this meeting: http://www.surveyors.org.nz/Event?Action=View&Event_id=248

GIM INTERNATIONAL SUMMIT 2016

10–12 February 2016, Amsterdam
www.gimsummit.com

APRIL

ESRI USER GROUP CONFERENCES

March–April 2016
<http://www.gisuser.org.nz/events-amp-conferences>

ASSOC. OF PUBLIC AUTHORITY SURVEYORS – APAS2016 CONFERENCE

4–6 April 2016, Leura, Australia
<http://www.apas.org.au/#!/events/galleryPage>

LOCATE 16 CONFERENCE

12–14 April 2016, Melbourne, Australia
<http://locateconference.com/>

NZ PLANNING INSTITUTE – ANNUAL CONFERENCE: OVER THE RAINBOW

12–15 April 2016, Dunedin

MAY

FIG WORKING WEEK

2–6 May 2016
www.fig.net/fig2016



WATER NEW ZEALAND 2016 STORMWATER CONFERENCE – RESILIENT STORMWATER SYSTEMS

16–20 May 2016, Rutherford Hotel, Nelson

GEOSPATIAL WORLD FORUM – WHERE'S THE MONEY, DISRUPTIVE BUSINESS MODELS

23–26 May 2016, Rotterdam, The Netherlands
<http://www.geospatialworldforum.org/>

GEO BUSINESS 2015

24–25 May 2016
Business Design Centre, London, U.K.
<http://geobusinessshow.com/>

JUNE

ESRI USER CONFERENCE

June 27–July 1 2016, San Diego, USA
<http://www.esri.com/events/user-conference>

JULY

INTERNATIONAL SYMPOSIUM ON INTERACTIONS OF ICE SHEETS AND GLACIERS WITH THE OCEAN

10–15 July 2016, La Jolla, California, USA
<http://www.igsoc.org/symposia/2016/lajolla/>

continued next page

- Ms. Lianne Dalziel, Mayor of Christchurch
- Representative from Government of New Zealand
- Mr. Duncan Gibb, Founding General Manager of SCIRT
- Dr. Hiroshi Murakami, Deputy Director General
- Mr. Gregory Scott, UN-GGIM
- Mr. Keith Bell, World Bank
- Mr. Bryn Fosburgh, Trimble Navigation
- Prof. Pengfei Cheng, Chinese Academy of Surveying and Mapping
- Mr. Sam Johnson, Student Volunteer Army.

One of the important and unique features of FIG is its capability to cover the entire spectrum of the surveying profession reflected by the range of the FIG ten technical commissions. Each commission will have a stream during the conference, allowing you to navigate the FIG Working Week with ease and maximise your time at the conference. The key themes to be discussed each day are seen through the lens of the different streams, providing a unique angle and focus – be it technical, strategic or operational.

- FIG Commission 1 stream – Professional Standards and Practice
- FIG Commission 2 stream – Professional Education
- FIG Commission 3 stream – Spatial Information Management
- FIG Commission 4 stream – Hydrography
- FIG Commission 5 stream – Positioning and Measurement
- FIG Commission 6 stream – Engineering Surveys
- FIG Commission 7 stream – Cadastre and Land Management
- FIG Commission 8 stream – Spatial Planning and Development
- FIG Commission 9 stream – Valuation and the Management of Real Estate
- FIG Commission 10 stream – Construction Economics and Management

Altogether an inspirational and comprehensive programme will be offered.

Get inspired by the preliminary programme:

www.fig.net/fig2016/technical_program.htm

Extend your Working Week experience by attending one of the pre-conference programme:

- FIG IIHSM History Symposium (30 April–1 May)
- 3rd FIG Young Surveyors Conference (30 April–1 May)
- Technical Seminar on Reference Frames on Practice (1–2 May)
- SIDS Workshop (30 April–1 May)

For more information, please visit www.fig.net/fig2016

FIG Working Week Links next page



Upcoming Events (continued)

JULY-AUGUST

THE 13TH SOUTH EAST ASIAN SURVEY CONGRESS (SEASC 2015)

31 July–5 August

Beijing

<http://www.asiaoceania.org/society/index.asp>

NOVEMBER

NZ SPATIAL EXCELLENCE AWARDS 2016

NZSEA Awards Dinner Dates and venue tbc

<http://www.nzspatialawards.org.nz/>

FIG Working Week Links

- To register online: www.fig.net/fig2016/registration.htm
- For more information: <http://www.fig.net/fig2016/index.htm>
- Technical Programme information: www.fig.net/fig2016/technical_program.htm
- For details on FIG Commissions and submissions of Abstracts: <http://www.fig.net/fig2016/call.htm>
- Download the rugby special flyer: http://www.fig.net/fig2016/downloads/Crusaders_flyer.pdf
- Details on international Star Alliance flights arranged through Air NZ: <http://www.fig.net/fig2016/flightstochristchurch.htm>

Website Changes are Afoot

Members will see changes happening to the content and site structure of www.surveyors.org.nz. There will be a clearer delineation between content intended for the general public and content for members. A key change visible now is a new 'MEMBERS' tab which contains information relevant for members such as NZIS groups, Resources and CPD and Professional Development.

The next stage will be a new email template and a move to an e-newsletter for *Newslink* every second edition. National Office hopes to commence this in March.

Making your professional profile and contact details viewable.

Now is a good time to get ready for making the most out of the new value-add features the site will offer. There will be an improved member's Profile page searchable by the public when looking for a surveyor or spatial professional. If you are an RPSurv you will have the logo shown on your profile.

To make sure that your details are available and people can find you when looking for a surveyor/spatial professional, log-in and go to *Your Dashboard* and click on *Privacy*.

This will allow you to manage who can see what details eg email, phone numbers etc.

To update your profile and add details of your experience, qualifications and organization, log-on and click on:

- **Personal details** – to change contact information such as email, phone numbers, social media, web site address, job title etc.
- **Addresses** – to update your address details
- **Edit Profile** – to add a brief description of who you are and what you do eg areas of professional specialty
- **Upload image** – to add a photo of yourself that site visitors can see
- **Privacy** – to manage who can see what of your details eg members only or public.

Update your web browser

With the development of the new site underway, now is a good time to maximise. The website is designed to run best on the current versions of the most popular web browsers such as Internet Explorer (IE), Google Chrome, Mozilla Firefox and Safari (for Apple Mac).

The following web links give information on how to update your web browser:

- Updating Internet Explorer 11 – <http://windows.microsoft.com/en-us/internet-explorer/download-ie>
- Updating Mozilla Firefox – <https://support.mozilla.org/en-US/kb/update-firefox-latest-version>
- Updating Google Chrome – <https://support.google.com/chrome/answer/95414?hl=en-GB>
- Updating Safari for Mac – <https://www.apple.com/support/mac-apps/safari/>



Latest News and Announcements

CONSTRUCTION CONTRACTS AMENDMENT ACT

This act came into effect 1 December 2015 and impacts surveyors, engineers and multi-disciplinary firms. The act does not apply to any contracts commenced prior to 1 September 2016. Read the Glenn Stone Insurance information sheet:

http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=1569

LINZ GEOSPATIAL RESEARCH RESULTS PUBLISHED

LINZ have released a research report resulting from over 200 participants attending workshops to find where geospatial R&D can deliver the biggest benefits for end users.

The findings were released at New Zealand's first Geospatial Research Conference in Christchurch.

Read the full media release: <http://www.linz.govt.nz/news/2015-12/putting-people-centre-geospatial-research>

Read the report: <http://www.linz.govt.nz/about-linz/our-location-strategy/new-zealand-geospatial-research-and-development-priorities-and-opportunities>

GETTING YOUNG SURVEYORS TO FIG WORKING WEEK IN MAY



In the spirit of giving young surveyors the opportunity to attend an international event, Auckland Branch are planning to sponsor an Auckland survey firm up to a \$1000 to send a young surveyor who they would not normally be able to send to the FIG WW in May. What a great idea!

CONGRATULATIONS TO STUART KINNEAR – RECIPIENT OF THE NZPI DISTINGUISHED SERVICE AWARD

The award recognises individuals who have made as a significant contribution to planning over many years, have undertaken original research which has advanced planning in New Zealand and overseas, have made a major contribution to the affairs of the NZPI, or have achieved national or international recognition as a leader in the planning profession. Stuart received this award in November 2015.

ARE YOU SAFE TO DRIVE? INFORMATION ON LEGAL MEDICATION

This brochure gives information for drivers taking medication: http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=1565

Legislative Notes

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

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

- A successful application for costs and disbursements following a successful appeal to the High Court against the decision of the Environment Court;
- An unsuccessful appeal by a group of people against an award of costs in an earlier case where the appellants' liability in debt for statutory charges under ss 36 and 100A of the RMA was decided by the District Court;
- Unsuccessful application for interim injunction against an adjoining registered proprietor for right of way easement registered against the title;
- A successful appeal against the decision by commissioners to adopt a Plan Change to an Operative District Plan.

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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CONNECTING



General Social Media Update

As many of our membership may have already noticed – there have been a range of updates and changes to our social media approach since the introduction of a new strategy and additional staff support. The use of social media by organisations is continually increasing in popularity and can be an incredibly useful free service to use, particularly for a non-profit like NZIS, in order to increase the reach and awareness of key messages, advocacy items and issues.

NZIS will be frequently taking advantage of a number of different social media platforms in order to have these conversations with our membership, other key stake-holders and just as importantly: with the public. The more we utilise new online avenues to engage with others, the more we spread awareness of our mission and objectives and the better our buy-in becomes with everyone. This ultimately means that in turn our social media coverage will assist the membership through generating additional value in surveying and spatial services that is also understood. The colloquial and casual nature of social media makes it easy to articulate our value proposition to laymen.

Some interesting statistics...

For example, on Tuesday 15th Dec we had a post reach on our main Facebook page alone of 310 people for that week. That means that 310 people had seen our messages or engaged with us over Monday and Tuesday alone (2 days!), already a 136.6% improvement on the week before and with 5 days left to go. Last week (18–22nd Jan) we closed out having reached 592 people through our posts for that week. We have fans in Australia, Saudi Arabia, Brazil, Zambia, Norway, Russia, the UK, Philippines, US and more. We also have a higher online fan following base of women (sitting at 24%) than is represented in our current membership pool (a positive fact for future consideration). A healthy 10% of our following is also in the age demographic of over 55.

Our top singular post in December was seen by 604 people and had 74 follow on 'click-throughs' to the link provided: this link detailed surveying and spatial's recent addition to NZ's 'Immediate Skills Shortage List' and 'Canterbury Skills Shortage List'. The 'likes, comments and shares' made by people engaging in that post led to a total of 14 'on-shares' of that post by their friends (where a friend sees the post due to seeing a friend 'like, comment or share' it and then because of this shares it with their own audience).

Another recent post containing a picture of the WIS group working in the boardroom reached 479 people,

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with 100 'click-throughs'. Currently, we are achieving these levels of engagement with just 153 'likes' of this page. It is interesting to imagine what we could do with more.

Further information...

We will maintain a constant open line of communication with membership about any content they may wish to see put up on our online channels or over any ideas you may have. If you have an article, personal interest story, photo, business result, promotion to run, quote, or the work of a colleague or member that you would like to shine a spotlight on or share then please get in touch with us. We are particularly keen to elevate member voices and content and this is always better when it comes from the experts themselves (the stats back this completely!). Simply email Lauren – laurenmcgee@surveyors.org.nz! Having a social media presence means having a surveying and spatial presence in the public.

For those who aren't sure, email us and we will get in touch with you to talk through how we're using social media and how you can use it and find us.

Otherwise, check out the links below to get involved and watch out for the **Summer Facebook Competition** starting next Monday, 9 February – running through to **22 February**.

Facebook



<https://www.facebook.com/nzsurveyors/> (Main page)

<https://www.facebook.com/NZISYoungProfessionals/?fref=ts> (Young Professionals)

LinkedIn



<https://www.linkedin.com/company/new-zealand-institute-of-surveyors> (Main page)

• Subgroups:

- <https://www.linkedin.com/groups/4283070> (NZIS General)
- <https://www.linkedin.com/groups/4057396> (Women in Spatial)
- <https://www.linkedin.com/groups/6922254> (Positioning and Measurement)
- <https://www.linkedin.com/groups/8338266> (Cadastral)
- <https://www.linkedin.com/groups/8319484> (Engineering Surveyors)

Twitter



<https://twitter.com/NZsurveyors> or [@nzsurveyors](https://twitter.com/nzsurveyors)

Contact: Relationship Manager, Lauren, 02920138387, laurenmcgee@surveyors.org.nz



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Draft Canterbury Best Practice Guidance Document Released for Comment

The *Canterbury Working Party* has released a proposed "Best Practice Guidelines" for undertaking cadastral surveys in earthquake affected areas in Christchurch. It is now ready for members' review and feedback prior to being finalised.

Although drafted for Canterbury, this document has national importance as it could be used a 'blueprint' for any NZ earthquake affected areas in the future.

Link to download the document: http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=1557

The Working Party considers that this document will:

- become a resource for cadastral surveyors working in Canterbury;
- be a developing document that is enhanced and expanded as necessary;
- be distributed to any and all practitioners for their information and feedback;
- be open for comment and feedback that will be considered and incorporated into the next version; and
- is owned and controlled by the NZIS Canterbury Branch.

Feedback can be sent to Chris Hawes (Chris.Hawes@dls.co.nz) by **19 February 2016**.

Reminder – Member's Benefits

Standards New Zealand

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

- A 20% discount on the retail price of all New Zealand (NZS) and joint Australian/New Zealand (AS/NZS) joint standards, Asset Plus, and Online Library Service subscriptions.
- A 10% discount on the retail price of international standards.
- 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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Wishing all of our readers the Compliments of the Season. Many thanks to those who provided feedback to the Cadastral Corner items during 2015, your contributions are very much appreciated. We trust that you continue to find the Cadastral Corner articles interesting and helpful.

Permanent Structures

Permanent Structure Boundary information needs to include details in the Survey Report regarding the structure boundaries with the reason for, and details of decisions made regarding each existing boundary defined by survey, and the information considered in order to reach these decisions.

In the case of Flats/Cross Lease surveys the annotations on the face of the Plan Graphic needs to also be fully explained and described in the Survey Report to comply with RCS 2010 8.2 (a) (ix)

Easement Purposes

The correct capture of Easement Purposes has been discussed before but there seems to still be some confusion of the wording.

For new Easements the Purpose should be as per Sec 2 LT Regulations; ie: 'Right to Drain Stormwater' should now be 'Right to Drain Water'.

For the more unusual Purposes ensure the wording is as clear as possible, ie: 'Easement Overhang', or 'Overhanging Easement'.

For existing Easements to be retained the Purpose should be captured exactly as worded in the Title Memorial and the Easement Certificate ie: Older Easement Purposes may not include the words 'and Computer Media', and 'Right to Drain Stormwater' may be the purpose: which should be used. Also the term 'Right to Transmit Power and Telephone' may have been used.

Survey Technician Qualifications

For a number of years NZQA and service providers have been offering Survey Assistants and Survey Technicians the National Certificate (NCS), and National Diploma in Surveying (NDS).

Some of the subjects in these qualifications have become a little outdated so a Governance Group and Working Group has been revising the qualification content as part of the periodic NZQA Targeted Review of Qualifications (TRoQ) and updated the criteria to meet today's current competency requirements as part of the NZQA Unit Standard review.

As a result, some of the Unit Standards expire this month so if there are Technicians or Assistants who have not completed the qualification then it is suggested that they discuss the uncompleted Unit Standards with their Training Organisation contacts to ensure that the correct Unit Standard Workbooks, with the current version, is being completed.

Requisitions

With the e-survey requisition rate still as around 50% there MUST be items that could/should be documented in Cadastral Corner that will go some way to assisting other Surveyors to ensure their Quality Assurance checklists cover all of the likely scenarios, and to work towards eliminating, as far as possible, unnecessary, and frustrating, requisition items.

Feedback Please.

Feedback and any suggestions from members on content and items of interest for Cadastral Corner are always appreciated. If you have procedures that differ from those recorded in Cadastral Corner then we would appreciate hearing from you as well.

Please send your feedback to either esurveys@xtra.co.nz, or the NZIS online forum when you are logged in at: http://www.surveyors.org.nz/Forum?Action=View&Forum_id=8



NZIS Advocacy & Legislative Update

Resource Legislation Amendment Bill

NZIS is still considering how we may approach creating a submission on the *Resource Legislation Amendment Bill*. If you have any suggestions on the direction we should take please email our Relationship Manager, Lauren McGee, with your thoughts (laurenmcgee@surveyors.org.nz).

"The overarching purpose of the Bill is to create a resource management system that achieves the sustainable management of natural and physical resources in an efficient and equitable way. The Bill comprises around 40 individual proposals aimed at delivering substantive, system-wide improvements to the resource management system." – <http://www.mfe.govt.nz/rma/rma-reforms-and-amendments/about-resource-legislation-amendment-bill-2015>

Ideally, we are hoping to narrow down the focus of our submission to a few key sections or points that affect the surveying and spatial professions as the Bill is too wide-ranging for us to want to submit on everything. Submissions are due on the 14th of March. Follow the below link to give it a read and then get in touch with us!

<http://www.legislation.govt.nz/bill/government/2015/0101/latest/DLM6669131.html?src=qs>

Incorporated Societies Bill – Exposure Draft

National Office will also be formulating a submission on the MBIE exposure draft of the new 'Incorporated Societies Act (New Zealand)'. This will be the first major overhaul the Act has seen since its introduction in 1908 and as a non-profit organization, NZIS will be affected by any enacted changes. If you would like to contribute any thoughts on the submission on this draft then please get in touch with Lauren (email above). Submissions are due by the 30th of June. See the link below for more information.

<http://www.mbie.govt.nz/info-services/business/business-law/incorporated-societies>

Canterbury Property Boundaries and Related Matters Bill

NZIS wishes to send out a massive thank-you and congratulations to the membership for their contributions to the NZIS Submission on the *Canterbury Property Boundaries and Related Matters Bill*. We are now waiting to hear from the Local Government and Environment Committee as to when we will be presenting in front of the Committee. We will make sure to update the membership on any developments with this. Make sure you read the final submission below.

http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=1653

Christchurch Regeneration Bill

We are pleased to announce that our submission has been well received so far. The response from the Committee to our presentation on the 11th of December by Canterbury Chair Shane Dixon and President Mark Allan was likewise positive. Committee member David Parker remarked how our involvement in the Working Group for the *Canterbury Property Boundaries and Related Matters Bill* was evidence to the fact of our ability to effect needed change without the overshadow of a government representative or minister.

Remember to check this submission out on our website.

http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=1536

We look forward to tracking the potential progress of our suggestions through the parliamentary process and will make sure to keep you all informed with any developments.

Other Issues

If you find something that you think NZIS should be getting involved in then please get in touch with us and let us know. While we do learn of a number of issues through keeping our fingers on the pulse and eye on the news, we also rely immensely on the membership expertise and knowledge base to alert us to those issues which are of most importance to you. If you care about it – let us know.

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



Websites of Interest

Sensors & Systems – Ten predictions for 2016

<https://www.sensorsandsystems.com/dialog/perspectives/37569-ten-sensors-systems-predictions-for-2016.html>

MBIE – Essential Skills in Demand List Review 2015

Surveying and spatial professions were both placed on New Zealand's 'Immediate Skills Shortage List' and 'Canterbury Skills Shortage List' after the recent 2015 review:

<http://skillshortages.immigration.govt.nz/>

Two Exhibitions featuring cartography and surveying are currently running in Wellington

Unfolding the Map – the cartography of New Zealand

An exhibition showcasing the history of maps in New Zealand at the National Library, Wellington goes until August 2016. The exhibition tells the story of this country's maps – from the surprisingly accurate charts of Captain Cook's 18th Century voyages to the GPS technology used today. Read the full press release at: <http://www.scoop.co.nz/stories/CU1510/S00206/unfolding-the-map-the-cartography-of-new-zealand.htm>

Measured Works – Surveyors' views of early European settlement in Wellington

Runs from 7 December till 26 February at the National Library. Learn stories of the people, troubles, and compromises that gave us the streets of Wellington we know today. <http://natlib.govt.nz/visiting/wellington/the-turnbull-gallery>

"The Leica Captivate solution enables Envivo to make better on site decisions improving the efficiency of our field crews and the quality of our field work. We can now visually check on site the completeness of our job, ensuring that we have captured all the data we need and thus avoiding costly returns to the site. The Captivate hardware along with Global Surveys support solutions also provide Envivo with the technological framework to allow us to cope with the industries changing needs and venture confidently into the exciting world of 3D and BIM."

MARK FINLAYSON
Survey Director, Envivo Planning,
Surveying & Engineering

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Step 2

Once you've taken the test book in for your **free** Sales & Marketing Diagnostic* worth **\$100**. Exclusively for NZIS members!
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This month's photo has been provided by Alex Liggett (Fox and Associates) showing: "an RTK machine control setup we did on one of Burnside Contractors' Cat H series graders, for subdivision earthworks at Kirwee".

GNSS positioning applications have proliferated since the advent of smartphones and other consumer devices with integrated GNSS capability. The bulk of these devices are currently capable of only navigation or autonomous positioning to an accuracy of a few metres at best. However we should anticipate that in the near future new versions of today's GNSS-enabled consumer devices will come equipped with positioning capability of at least sub-metre accuracy. This capability could be delivered via network RTK, PPP (precise point positioning), or A-GNSS (assisted GNSS) technologies already in existence, or by new innovations. And we can only imagine what new devices will emerge with GNSS positioning capability, and an accompanying new range of applications.

We are all aware of how GNSS infrastructure such as network RTK can be of benefit to surveyors and other geo-spatial professionals, but our sector makes up only a tiny proportion of the total potential future utilisation of high-accuracy real-time positioning technology. Many industries have already recognised the economic opportunities that GNSS technology provides, and the last couple of decades have seen a steady expansion of GNSS utilisation by the construction, agriculture, and transport sectors especially. Machine control of heavy earthmoving equipment by RTK GNSS has matured to the stage where it is already widely deployed. Likewise precision agriculture is a growth industry where accurate positioning already enables increased productivity of a huge and diverse range of farm machinery. Vehicle manufacturers have been investing billions of dollars every year in research and development of driver-less vehicles in addition to driver-augmentation technologies already being deployed. Accurate and real-time positioning is fundamental to enabling and improving all of these technologies, with GNSS being a key component.

Thus it is vitally important that shared GNSS infrastructures (such as network RTK services) are developed in a cohesive, coordinated and efficient manner in order to ensure that they are capable of supporting the growing number of applications and users of the positioning technology supported and enabled by them. It is not unreasonable to anticipate that the demand for high-accuracy real-time positioning applications will become so ubiquitous that the infrastructure which supports them will come to be regarded as being of the same critical importance as the mobile communications networks of today. Another parallel is that in the same way as data usage increases as increased data becomes more accessible (via increased bandwidth and lower costs), so too should the utilisation of next generation positioning technologies increase as they become more accessible - make the technology widely accessible and consumers will find all manner of ways of utilising it.

Our membership contains professionals with the necessary expertise required to understand how the positioning infrastructure which enables these technologies should be developed. We are therefore well placed to play a lead role in oversight of the development of network RTK services and other shared infrastructures which facilitate advanced positioning technologies. We should also be a strong voice in the advocacy of necessary standards, and in championing a vision for what can and might be achieved.

With this in mind, the positioning and measurement stream intends to focus a major portion of its



energies in advocacy of network RTK GNSS services in 2016. Initially we'll undertake a stocktake of the current situation for the provision of these services in NZ, which will be summarised in a published paper. Once we've reviewed the current situation we want to identify opportunities for improvement and some long-term advocacy objectives. Needless to say this will be a large task, and it would be hugely beneficial if those of our membership (and others) who are passionate about GNSS can participate. It is not necessary to be an expert in network RTK in order to make a valuable contribution - just having a passion and knowledge about GNSS in general is sufficient. Watch out for opportunities to participate in this discussion throughout 2016 and beyond.

In a similar vein, LINZ recently conducted a survey of registered users of its PositionNZ-RT service, and has circulated the results amongst those who participated (although these are not yet available on the LINZ website – perhaps LINZ could put up a link?). Around 60% of the 118 respondents identified themselves as surveyors, with a similar proportion using GNSS on a daily basis. A common theme in the feedback from respondents was the need for increased network RTK density and improved data network coverage outside of the main cities. Also of interest is that only 13% of respondents reported that their equipment was GPS-only, with 45% having GPS+GLONASS equipment, and the remaining 42% either already using multi-constellation GNSS or intending to do so in the near future.

Young Professionals



Cadastral Law Exam

It's good to see so many young entrants for the Cadastral Law Exam this year in preparation for the Professional Entrance Exams. There are 45 young surveyors enrolled to sit the exam throughout New Zealand.

A preview of the exam scheduled for **9 February 2016** is now available on the *Professional Entrance Examinations* webpage: http://www.surveyors.org.nz/Category?Action=View&Category_id=177



Continuing Professional Development

Cross-Lease Workshop

Canterbury Branch is organising a Cross-Lease Workshop for its members to be held the 3rd of March 2016. Watch out for the event registration in the website Calendar.



Business Skills Training – Special Training Offer for NZIS Members

NZIS Members now have access to a much broader range of training tools for business skills through partnership with external training organisation CDL Insight Consulting.

Through the partnership, NZIS members can access CDL training at reduced affiliate member rates.

CDL offers a wide range of CPD courses focused on helping develop effective leadership, people management and communication skills. All of these courses are delivered by expert consultants with extensive industry experience.

Members have till the 29 February to take up the special '2 places for the price of 1' training offer from CDL Insight Consulting as a result of our affiliation.

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)**.





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New Health & Safety Act – You need to be preparing for this now

The new Act comes into force April 2016 and will affect everyone. Visit the Health & Safety resources web page for more information and resources on how to prepare for the new requirements:

http://www.surveyors.org.nz/Category?Action=View&Category_id=890

Health & Safety Package

A customised package is available for businesses and firms to purchase through the NZIS website:

http://www.surveyors.org.nz/Event?Action=View&Event_id=240

New Brochure Available: Information on Legal Medication

This brochure gives information for drivers taking medication:

http://www.surveyors.org.nz/Attachment?Action=Download&Attachment_id=1565



Webinar Library

Book your webinar space via the following links:

Webinar Library – View Anytime – NZIS Seminar – CSD Quality systems and processes

http://www.surveyors.org.nz/Event?Action=View&Event_id=226

Webinar Library – View Anytime – The NZGD2000 deformation model – what is it and how should I use it?

http://www.surveyors.org.nz/Event?Action=View&Event_id=224

NEW – View Anytime – Health and Safety – Making Safety Simple

http://www.surveyors.org.nz/Event?Action=View&Event_id=217

NEW – View Anytime – NZIS Workshop Landonline Plan Generation.

http://www.surveyors.org.nz/Event?Action=View&Event_id=213

Webinar Library – View Anytime – Uses and implementation of unmanned aerial systems for surveying purposes.

http://www.surveyors.org.nz/Event?Action=View&Event_id=212

Webinar Library – View Anytime – NZIS Conference – NZ Cadastral, LINZ free GNSS post processing & surveying on shaky ground

http://www.surveyors.org.nz/Event?Action=View&Event_id=174

Webinar Library – View Anytime – NZIS Conference – Spatial in partnership

http://www.surveyors.org.nz/Event?Action=View&Event_id=173

Webinar Library – View Anytime – NZIS Conference – Maori Land 2034

http://www.surveyors.org.nz/Event?Action=View&Event_id=172

Webinar Library – View Anytime – NZIS Conference – LINZ developments & wider interests

http://www.surveyors.org.nz/Event?Action=View&Event_id=171

Webinar Library – View Anytime – NZIS Conference – Beyond the Boundaries – Experiences from our profession

http://www.surveyors.org.nz/Event?Action=View&Event_id=170

Webinar Library – View Anytime – NZIS Conference – Aerial Survey & Imagery Data Capture

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Webinar Library – View Anytime – NZIS Conference – The Marketing Company

http://www.surveyors.org.nz/Event?Action=View&Event_id=168

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Webinar Library – View Anytime – Women in Industry Workshop
http://www.surveyors.org.nz/Event?Action=View&Event_id=166

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http://www.surveyors.org.nz/Event?Action=View&Event_id=163

Webinar Library – View Anytime – Business Mentors
http://www.surveyors.org.nz/Event?Action=View&Event_id=160

Webinar Library – View Anytime – Emotional Intelligence
http://www.surveyors.org.nz/Event?Action=View&Event_id=143

Webinar Library – View Anytime – Legislative Changes to the Building Act, Now and Future
http://www.surveyors.org.nz/Event?Action=View&Event_id=106

Webinar Library – View Anytime – Resource Consent Writing
http://www.surveyors.org.nz/Event?Action=View&Event_id=104

Webinar Library – View Anytime – Building Information Modelling: Impacts the Surveyor
http://www.surveyors.org.nz/Event?Action=View&Event_id=100

Webinar Library – View Anytime – Building Information Modelling: Making It Happen Part 1
http://www.surveyors.org.nz/Event?Action=View&Event_id=99

Webinar Library – View Anytime – SketchUp Pro
http://www.surveyors.org.nz/Event?Action=View&Event_id=98

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Authorised Distribution Partner

Webinar Library – View Anytime – Negotiating Skills

http://www.surveyors.org.nz/Event?Action=View&Event_id=97

Webinar Library – View Anytime – GPS Technologies That Will Transform Surveying

http://www.surveyors.org.nz/Event?Action=View&Event_id=96

Webinar Library – View Anytime – LINZ Water Boundary

http://www.surveyors.org.nz/Event?Action=View&Event_id=95

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Registered Professional Surveyor

Dunwoodie & Green Surveyors is a well established survey firm operating on the Coromandel Peninsula and Hauraki Plains approximately 1 hour east of Auckland.

We have a vacancy for a Registered Professional Surveyor (or Licenced Cadastral Surveyor who wishes to become a R.P. Surv). We are looking for someone who can work in a team environment on a mix of resource consent applications, urban and rural subdivisions, topographic surveys and land development. A mix of office and field work can be expected in an attractive environment.

An attractive remuneration package commensurate with experience will be offered and future potential is good. The Coromandel peninsula has an attractive lifestyle with great beaches and outdoors with no traffic jams.

You are invited to forward your CV which will be treated in confidence to:

Dunwoodie & Green Surveyors Ltd
PO Box 194
THAMES 3540

Or email to: phil@dgsurveyors.co.nz

Contact: Philip Green 027 240 9525



LICENSED CADASTRAL SURVEYOR

AUCKLAND OFFICE

WOODS are seeking a **Licensed Cadastral Surveyor** to join our busy and innovative survey teams in our Auckland office. At WOODS, we employ the very best people and use the best technology available to deliver efficient and innovative solutions for our clients.

Benefits of working for WOODS include:

- Working in a broad range of surveying disciplines including land development, infrastructure, laser scanning, pacific island surveys, monitoring and construction
- Chance for experience with modern survey equipment and software.
- Having the opportunity to work collaboratively in a close team environment
- Being encouraged and supported to develop your career to become an industry leader
- Working on some of NZ's largest and most prestigious subdivisions
- A chance to manage and mentor our survey graduates and technicians
- An attractive remuneration package to the successful applicant along with career development.

We are seeking applicants with the following attributes:

- A **Licensed Cadastral Surveyor** (with current license) with 0-5 years post licensing experience in New Zealand
- Positive can do attitude
- A passion for the industry and taking their skills further
- A good knowledge of GNS3 implementation and modern surveying methods
- Experienced in 12D Model and AutoCAD software
- Solid cadastral background
- Be a problem solver and able to work with minimal supervision

If you are interested in a career at WOODS, email your cover letter and resume to: rowan.hallam@woods.co.nz with "LCS position" in the subject line. Applications close Friday 26th February 2016 and will be treated in the strictest confidence. Woods will contact those shortlisted to arrange interviews times following the close of applications

For additional information on Woods see www.woods.co.nz and www.woodslaserscanning.co.nz



3D LASER SCANNING POSITIONS

AUCKLAND AND CHRISTCHURCH OPPORTUNITIES

Woods are a market leading multidisciplinary consultancy with a focus on technology and innovation. The Woods team covers Engineering, Surveying, Planning and Urban Design disciplines. As a sector of the survey team, Woods are leaders in the laser scanning industry in New Zealand. We are looking for experienced laser scanning operators to join our team.

The ideal applicants should;

- A minimum of 1 years practical field experience in 3D laser scanning projects
- Strong knowledge of Leica Cyclone software and registration techniques.
- Be able to demonstrate a good survey practice/techniques and use of modern survey equipment.
- Have a positive attitude and have a willingness to fit into the existing survey and laser scanning team
- Must be meticulous in carrying out your work with an excellent attention to detail
- Expertise with modelling in Revit, Cyclone, AutoCAD or Geomagic is an advantage.

Woods offer;

- Laser scanning opportunities to a wide variety of disciplines
- the latest survey technology including Leica Scan Station P20 and P40 scanners
- An excellent suite of point cloud software for processing and modelling.
- A supportive environment to advance this industry

If you are interested in a career at WOODS, email your cover letter and resume to: rowan.hallam@woods.co.nz with "laser scanning position" in the subject line. Applicants for the position must have NZ residency or a valid NZ work permit along with NZ experience. Applications close Friday 26th February 2016. Woods will contact those shortlisted to arrange interviews times following the close of applications

For additional information on Woods see www.woods.co.nz and www.woodslaserscanning.co.nz

Technical Manager Geodesy

This is an exciting opportunity to join a team of surveying and geodesy experts operating as part of LINZ's Location Information group.

The Technical Manager Geodesy supports LINZ with specialist expertise in surveying and geodesy, particularly in relation to the maintenance and development of geodetic infrastructure in New Zealand, including the running of the geodetic survey and maintenance programme.

Primary responsibilities include:

- Overseeing geodetic survey and maintenance programmes
- Overseeing urgent works and mark protection activities
- Ensuring currency, accuracy and operation of geodetic database
- Considering all the relevant material, identifying issues and opportunities and recommending actions and innovative solutions
- Ensuring (as a Team Manager) that all LINZ financial, legal and internal policy risks are managed and complied with

Ideal candidates will demonstrate:

- A technical degree or relevant technical experience in surveying and/or geodesy
- Experience in undertaking and supervising survey work with geodetic or control work being an advantage
- A demonstrable understanding of the positioning system and geodetic control requirements in New Zealand
- Knowledge of GNSS systems, geodetic data, adjustments, and the geodetic database would be an advantage

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 5pm Thursday 18 February 2016.

For further information on this role please contact Graeme Blick, Chief Geodesist on 04 498 3833 or email opportunities@linz.govt.nz.

Senior Survey Advisors

Bring your BEST to drive New Zealand's success

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 are looking for two 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 15 February 2016.

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



ADVERTISING RATES

Copy Deadlines

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

SURVEYING+SPATIAL: Copy Deadline for the **June 2016** issue is **1 May 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

