



**Survey  
and Spatial  
New Zealand**

# **2018 YEAR BOOK**

**Incorporating the 130<sup>th</sup>**

**Annual Report and Audited Accounts of**

**New Zealand Institute of Surveyors Incorporated**

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*The trading name changed from NZIS to Survey and Spatial New Zealand (S+SNZ) in August 2018. Some items in this report still refer to NZIS.*

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## President's Report

KIA ORA AND welcome to the 130<sup>th</sup> Annual Report of Survey and Spatial New Zealand (formerly NZIS) – it is my pleasure to present the yearbook and report to all our members. This is my first year of presidency and whilst it has been a steep learning curve for me, I have enjoyed receiving wonderful support from fellow councillors, the Board and members. I appreciate the steady hand of previous President Mark Allan in developing our framework and look forward to progressing this during my two-year tenure. With this framework in place we're now entering an exciting phase with a new name and brand and a future full of new opportunities.

Council met face-to-face in April, at the Nelson conference in May and by teleconference in June, August and September. During our April meeting, Council agreed we needed more frequent contact as a group to develop our collective thinking on key items. For 2018 these included the

certification project, governance review, complaints process review, professional examinations review, and vertical datum seminar series.

A governance review committee comprising Bruce Anderson (ex-NZIS Board), Andrew Stirling, Mark Allan and Mike Benning was established to review our current governance arrangements and how well they are working. A governance framework was used to review our structure against recognised success factors and to identify any rules that needed to be refined or changed to keep the organisation moving forward.

One of the recommendations was to change our name to ensure our brand could be more readily recognised by the public and to broaden the appeal of the organisation. This is to ensure we position ourselves for the future (modernise), can grow our membership base and ensure our long-term survival. The spatial stream's strategy and work plan has been shared with Council and the Board, with

some of the thinking likely to feed into future marketing of our organisation and brand. An excellent example of the way a stream can provide insight to ensure our material reaches the targeted audience and hits the right notes in terms of value proposition. The proposed amendments to the rules, which largely deal with housekeeping matters, will be voted on at the AGM.

The certification project has progressed, albeit much slower than we had hoped. The paper is now with stream leaders for feedback on specific competencies required for each practice area and will be presented at the stakeholders' forum in November. From there we anticipate the new requirements will be implemented in early 2019. Earlier in the year, the working group comprising Andrew Stirling, Richard Hemi and myself recognised that despite our stream structure, many of our members do work across multiple practice areas and so we have tried to reflect that in the revised



model. While there is work required to develop application templates etc, we can say that the intent is for future applications to be submitted online. Survey and Spatial NZ is moving into the 21<sup>st</sup> century!

This piece of work, of course, ties in closely with the professional exam process. The current annual circular is to be revised very shortly by a working party comprising the examination panel chair and CSLB, YP and CSNZ representatives. The Examination Panel have been stretched beyond capacity this year with a larger than usual number of candidates sitting the Acts and Regulations Examination. Policy is being developed to provide clarity and structure around processes and expectations for the exam. We are anticipating an increase in the number of candidates attending the professional interviews in November. This is just one of the areas in which our volunteers' time commitments appear to be ever increasing, so our collective heads need to come up with some innovative ways to streamline processes. Council would like to express their

thanks for the hard work and hours put in by the Examinations Panel.

In March I attended the Pacific Geospatial and Surveying Council's (PGSC) inaugural meeting in Tonga to sign a Memorandum of Understanding between PGSC and NZIS. This was a very inspiring opportunity to meet with leaders from the Pacific and United Nations, to understand how we can support capability growth in the Pacific Islands that will lead to better preparation for and recovery from natural disasters and the effects of climate change. A Pacific Advisory Group has since been established to deliver on the MOU. The group's first meeting took place in July, and during this the concept of NZIS membership for Pacific Island survey and spatial professionals, a workshop at the Auckland conference in May 2019 and early planning for a volunteering workshop in September 2018 were discussed.

The volunteering workshop has now taken place in Dunedin. Congratulations and thank you to Claire Buxton for leading this initiative, which saw members with a wide

range of experience come together to share their knowledge with younger members and help them to understand the opportunities and requirements. It is fantastic to see our young professionals so actively engaged and our experienced members passing on their knowledge so readily.

Councillor Daniel Williams (also a member of the Board), Board Director Michelle Bain and I attended the CSNZ division's annual workshop. This was the first time I had attended a CSNZ workshop and it was a great chance to see first-hand the value that this long-running event provides our members who are business owners, managers and leaders. I really enjoyed meeting members with a slightly different focus and found the conversations very helpful in understanding the needs of this group.

We have seen the number of entries for our Award of Excellence and personal achievement/contribution categories dwindle in recent years, however the NZ Spatial Excellence Awards continue to flourish. Council still views the original NZIS awards





## President's Report continued

as important but recognise the lack of fanfare around these has likely been a contributing factor to their demise. An awards review committee is being established under the steady hand of Warren Haynes and will be responsible for reviewing the award categories and canvassing members' views, to ensure any awards we offer are appealing.

Thank you to all of our hard-working volunteers and National Office staff for their support. I look forward to meeting with members at the upcoming stakeholders' workshop, communication forum and AGM in Wellington.



*Rebecca Strang, President*

### WEBSITE

[www.surveyspatialnz.org](http://www.surveyspatialnz.org)



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## Board and CEO Report

PREPARATION, EXECUTION AND quality outcomes take time.

This year the Survey and Spatial New Zealand Board (a.k.a. NZIS) assessed our resource foundation and added staff capacity so that our business model can progress with certainty to meet current and future challenges.

Sustained office performance, contributing to sustained growth in the organisational performance indicators, is the outcome that we seek.

During 2017-18, a particular focus has been on advocacy with the new Government and on important initiatives that LINZ is undertaking.

Just as vital has been our focus on sector-related challenges. This included growing the opportunities for community recognition and leading key professional issues for members.

This year we addressed issues including Landonline performance, ASaTS progress and an Environment Court case.

The following are four major areas we have also progressed:

- *Certification model* – We have finally ‘zeroed’ in on the model that will meet the needs of members for a modern, flexible and professional qualification capable of responding to their expanding needs. Whilst the gestation of this project has been lengthy, a lot of views have been considered to get to the final model. The results will be a key focus at this year’s Stakeholder Workshop and AGM.
- *Staff* – A lot of work has also been done on ensuring we have the staff structure needed to support our membership focus. At front and centre have been CPD events that can be accessed throughout NZ by live streaming and webinars, a new social media focus, greater support for our volunteers and a conference that is evolving and growing support as the premier annual event for our members.



*Stakeholder forum*

- *Vision* – Establishing a new name to ensure we are well placed to realise our future vision. New partnerships with ACENZ and the Diversity Agenda are exciting initiatives that will add value going forward.
- *Change* – Preparing the organisation and members for change has been vital and now the marketing of our profession to NZ communities can proceed under a new marketing plan. Members will see a focus on marketing our refreshed brands through 2019.



## Board and CEO Report continued

The transition to a new trading name, Survey and Spatial New Zealand, is an important change that will increase the recognition and acceptance of our organisation. It will enhance understanding of the knowledge, skills and ability of our members to support important national challenges, such as the housing crisis.

Members can be assured that the internal systems and key stakeholder relationships are in place along with robust and expanding revenue streams. These will give us the capacity to grow and add value to membership and the profession.

The Kairūri Community Trust is now live and if we all consider what we can do to support the trust, it will become an important beacon for our profession in the years ahead.

Andrew and Hadyn would both like to thank our members, especially those in leadership positions, our commercial partners, key stakeholders and everyone who has given their time to support Survey and Spatial New Zealand (NZIS). Not only is it appreciated but it has made a difference.

The past year was busy and successful at every operational level in the organisation.

The foundations are in place and key elements of the Council and Board focus will be evident in 2019. We look forward to a year that will deliver exceptional value to members.



*Andrew Stirling,*  
Board Chair



*Hadyn Smith,*  
CEO



*Stakeholder forum*



## Career Story: Nick Stillwell



# No Single Trajectory

THE GREAT THING about surveying is that it opens up a tremendous range of career options and that you aren't stuck on a single trajectory. In my relatively short career (8 years), I have had the opportunity to be involved in a variety of projects. Some areas I have worked in have included:

- Cadastral surveying for subdivisions, infrastructure legalisations, treaty settlements, and Māori Land Court partition orders
- Geodetic survey of some 300 new order 5 marks in rural Gisborne
- Engineering surveying for: roads, transmission lines, and water infrastructure
- Managing spatial information for infrastructure projects
- Researching methods for capture and use of spatial information within organisations
- Leading multi-disciplinary teams to solve problems for private and public sector clients.

Since October 2017 I have had the

pleasure of representing surveying and spatial professionals in LINZ's project to replace Landonline. Through this work I have been able to get out and about, meeting with surveyors and spatial professionals from all over New Zealand. The broad range of ideas and solutions that people have come up with,







and the innovative workarounds developed to undertake cadastral surveys using the Landonline system are nothing short of remarkable. I am looking forward to the challenge of advocating for your views as the

project unfolds – it is a colossal task and not one that I take lightly.

In more recent times, I have been involved with more NZIS activities and it is great to see the range of people who roll up their sleeves and contribute to our profession for our collective benefit. The amount of time that goes on behind the scenes to increase the influence our profession has is inspiring, and it is great to see a growing number of people willing to lend a hand to the wheel. If you are even slightly interested I would encourage you to get involved – someone once told me that you always get more out of volunteering than you put in, I have always found it rewarding from a personal growth perspective.

I am proud to be part of a profession with a rich heritage – we deal with a fascinating blend of historical documents, mathematical interpretation, artistic judgment, rapidly advancing technology, and the ability to collaborate with and lead professionals from a range of backgrounds.





# Council and Board Meetings

## Council Meetings

Council meetings were held:  
17 February, 18 October 2017, 13 April 2018.

### Council 2017-2018

#### President

Rebecca Strang, Auckland

#### Vice-President

Guy Panckhurst, Napier

#### Councillors

Michael Cutfield (Engineering Surveying Stream)

Matt Ryder (Cadastral Stream)

Emily Tidey (Hydrography Stream)

Julia Glass (Land Development and Urban Design Stream)

Robert Mears (Young Professionals)

Elaine McAlister (Women in Surveying/Spatial)

Rachelle Winefield (Positioning & Measurement Stream)

Kat Salm (Spatial Stream)

Prof. Christina Hulbe (Tertiary)

Paul Newton (CSNZ)



## Board Meetings

Board meetings were held on the following dates:

**2017:** 1 June, 18 August, 17 October.

**2018:** 6 March, 12 April, 14 June.

### Board 2017 -18

#### Chair

Andrew Stirling, Auckland  
(Division Representative to Board)

#### Board Members

Daniel Williams, Auckland  
(Board Representative to Council)

Simon Jellie, Wellington  
(Stream Representative to Board)

Thomas Gibbons, Hamilton (Independent)

Michelle Bain, Auckland (Voting Member)

Jordan Alexander, Wellington (Independent)

*S+SNZ Board: Michelle Bain, Daniel Williams, Andrew Stirling, Thomas Gibbons, Jordan Alexander, Simon Jellie*



**Membership Demographics**



# Council and Board Support

## Complaints and Ethics

The Ethics Committee has been very active over the past 12 months. There is a continuing trend of an increasing number of complaints. As per previous reports from the committee, the common themes continue to be:

- A lack of appropriate terms of engagement with clear expectations; and/or
- Failures in communication on the part of the member.

Often the trigger for a complaint relates to a fees dispute; the committee specifically does not assess or adjudicate over anything to do with fees and specifically only addresses questions related to professional conduct of members.

Of note this year, a complaint was upheld where unprofessional conduct was identified. As a consequence, the member has had membership suspended pending suitable remedial professional education to demonstrate understanding and acceptance

related to the behaviour with a requirement to make fresh application for admittance as a member.

This action taken against a member is a reflection that the committee regards NZIS membership as a privilege for those who understand and adhere to the high standards and ideals of the NZIS as a professional body.

## Professional Examinations

Tēnā koutou katoa.

The November 2017 and April 2018 examinations have seen a total of 29 candidates presenting for the professional entrance examinations. Numbers are steadily increasing each year.

There were some exceptional candidates presenting to a high professional standard in both their projects and their interviews. What set them apart was their knowledge about the relationships between the different disciplines being examined in, understanding of their limitations and the training and support received from their licensed cadastral surveyors. Unfortunately, there was also a very high number of requisitions and a fail given. The concern is that these candidates are being let down by their licensed cadastral surveyors (LCS). The LCSs need to take a more active role in preparing the candidate for their examinations and ensuring that the candidate is ready to present, with the view



to obtaining a full pass on the day of the professional entrance examination.

The Cadastral Law Examination has continued to average 50 candidates. Moving the examination out to June 2018 saw the number of candidates reach 75.

The Cadastral Survey Licensing Board (CSLB) sent a representative to attend the professional interviews as an observer in November and April to ensure that the panel is examining in the competencies set by CSLB and to the standard required for CSLB to issue the candidate with a licence based on the Certificate of Competency issued by the panel. The CSLB report to Council was very favourable about the examiners' interviewing techniques and the robust process followed by the examiners especially when it came to passing, requisitioning and failing candidates.

Alongside the exams and queries the panel is involved with, we are also working on providing input to the new Annual Circular and the terms of reference. The number of examiners on the panel needs to increase to

cope with the increase in candidates coming through and general workload. Replacement examiners are required in land development engineering, planning design and resource management and cadastral surveying due to resignations.

I'd like to thank the members of the panel, Ross Thurlow, Mark Dyer, Jeff Irving, Rachelle Winefield, Lloyd McGarvey, Kevin Taylor and substitute examiners David Stewart and Dion Mead who put in many volunteer hours reviewing projects, setting exam questions, marking projects and interviewing candidates. We get to see some really exciting projects and how technology is being utilised to carry out the work.

Ngā mihi nui,

*Jo Johnston*, Chair Examinations Panel





### Honours, Awards and Prizes

The following honours and prizes were awarded during the year:

- **Maurice Crompton Smith Memorial Prize** – Graeme Peter Crouchley, Christchurch
- **Percy Dyett Award** – Eymard John Carter, Lower Hutt
- **State Sector Award** – Heath Kent Dawson, Christchurch
- **Bogle Young Surveyor of the Year** – Taryn Michael Martin, New Plymouth
- **McRae Award** – Lloyd McGarvey, Christchurch.

Three new Fellowships were conferred on:

- Warren Haynes, Christchurch
- Ross Thurlow, Auckland
- Steve Critchlow, Wellington.



*Graeme Crouchley video – click to play*



*Three new Fellows with President Mark Allan, second from left. From left, Warren Haynes, Mark Allan, Ross Thurlow, Steve Critchlow.*



*Eymard Carter receiving the Percy Dyett Award.*



*Taryn Martin receiving the Bogle Young Surveyor of the Year Award.*



*Lloyd McGarvey receiving the McRae Award.*





The New Zealand Spatial Excellence Awards (NZSEA) are now in their fifth year and continue to showcase the importance of spatial technology in everyday business throughout New Zealand. For a relatively small market sector, we continue to have strong interest in the awards evidenced by the number of entries received and the diverse nature of each entry. Spatial data cuts across every sector in New Zealand, including conservation, earthquake recovery,

iwi, transportation and urban planning.

NZSEA continues to be the key vehicle highlighting innovative ways spatial technology is being used to engage communities, businesses and government in working together. We are also seeing diverse areas where spatial technology can be applied.

The winning list is full of Survey and Spatial members (or 'NZIS', as it was at the time) and worthy of reflection. The Supreme Award winner was Trimble and its Catalyst system. Catalyst is a breakthrough technology that puts global navigation satellite system (GNSS) capability into the hands of smartphone users. The full list of 2017 winners were:

### ORGANISATIONS

#### Environment & Sustainability

*Winner:* Land Information New Zealand

*Title:* Wilding Conifers Information System

#### Innovation & Commercialisation

*Winner:* Trimble

*Title:* Catalyst

#### People & Community

*Winner:* New Zealand Cartographic Society

*Title:* 2016/2017 NZ Children's Map Competition

#### Spatial Enablement

*Winner:* Far North District Council

*Title:* 'Let's Plan Together' Community Engagement in the District Planning



*All go!*



*MC for the awards, Mark Sainsbury*



*Scott Campbell presenting the Award for Outstanding Contribution to Spatial to Roger Smith*



*Kate Waterhouse, Finalist for Young Professional of the Year and Mary Sue Critchlow*

### Technical Excellence

*Winner:* AJJV (Arup Jacobs Joint Venture)

Auckland Light Rail Technical Advisers

*Title:* Auckland Light Rail Utilities Clash

Detection Interactive Model

### INDIVIDUALS

#### Professional of the Year

*Winner:* Trevor Hart

#### Young Professional of the Year

*Winner:* Kate Waterhouse,

Western Bay of Plenty District Council

#### Postgraduate Student of the Year

*Winner:* Euan Forsyth, University of Auckland

#### Undergraduate Student of the Year

*Winner:* Craig MacDonell, University of Otago

This year will also see a new focus for the awards night as the finalists will be charged with telling their stories before the winners are announced.

The awards also attract committed foundation and commercial partners – without the support of these organisations, the event

would not be such a success. These include: Foundation Partners SIBA, LINZ, S+SNZ; Diamond Partner Eagle Technology; Gold Partners e-Spatial and Stats NZ; Silver Partners Core Logic, New Zealand Esri Users Group, Critchlow and Trimble and Bronze partners Geospatial Research Institute, Locus – FME and Orbica.



*Hadyn Smith, CEO and  
Rebecca Strang, President*

### Pacific Advisory Group

A Pacific Advisory Group (PAG) that will report to the Board and work with the CEO in an operational support role has been formed. The objective is to lead the delivery of value under the MOU signed between Survey and Spatial NZ (S&SNZ) and the Pacific Geospatial and Surveying Council (PGSC). The group aims to positively influence life in the Pacific through improved surveying and spatial outcomes. Actions include:

- Engage widely with Pacific Island Countries and Territories (PICT) and PGSC
- Support achievement of goals identified in the PGSC strategy 2017-2027
- Build relationships with MFAT and donor organisations and advocate to them for greater investment in surveying and spatial needs in the broadest sense
- Promote educational and training opportunities, increase scholarships and funding



## Council and Board Support continued

- Support tertiary provider relationships between New Zealand and PICT
- Collaborate with interested organisations including SPC, PGSC, FIG, UNGGIM-AP
- Provide and support opportunities for capacity development through workshops and other means
- Promote business opportunities between NZ and PICT
- Support Pacific members of S+SNZ
- Support the response to climate change and tenure insecurity
- Support spatially responsible governance.

The group is planning to organise a workshop in conjunction with the S+SNZ annual conference in Auckland in May 2019.

Members of the group are John Hannah, Chris Pearson, Matt Amos (LINZ representative), Malcolm Archbold, Claire Buxton (Young Professional's representative), Angina Lal, John Hermann, Bill Robertson and Andrew Stirling.



*Director of Tuvalu Lands and Survey Department Faatasi Malologa and S+SNZ President Rebecca Strang signing the Pacific Geospatial and Surveying Council MOU in April 2018.*





### 2018-19 Survey and Spatial NZ Stakeholder Engagement

Engagement with our sector is crucial if we are to achieve our goals and outcomes as set in the Strategic Plan and Business Plan. Our Stakeholder Engagement Plan takes account not only of the requirement for high-level Council and Board interactions, but also the status of staff resources and the need to have proportionate and targeted engagement to support and advocate for our priority projects such as certification, ASaTS, workforce and housing. It also ensures we support our vital membership and funding bases.

The full 2018/19 S+SNZ Stakeholder Engagement Plans for Council/Board and National Office/Technical Experts are available online. National Office/Technical plan: [https://www.surveyspatialnz.org/Attachment?Action=Download&Attachment\\_id=5338](https://www.surveyspatialnz.org/Attachment?Action=Download&Attachment_id=5338). Board and Council plan: [https://www.surveyspatialnz.org/Attachment?Action=Download&Attachment\\_id=5339](https://www.surveyspatialnz.org/Attachment?Action=Download&Attachment_id=5339)



# Obituaries

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IT IS WITH deep regret that we record the deaths of the following members during the year.

Ross Moulton, FNZIS  
Christchurch

Frank Easdale  
Auckland

Robert Gifford Middleton  
Christchurch

Ian McIntyre  
Orewa

Alex Parton  
Auckland

Thyge (Dan) Madsen  
Auckland

Jim Tobin  
Gisborne

Joshua Graeme Tingey  
Mt Maunganui

Janet Holm Honorary MNZIS  
Wellington





# Tabled Report to Business Plan

## Communications



### Conference

A very successful conference held in Nelson in mid-May was enjoyed by nearly 300 attendees and supported with communications activities leading up to, and during the event. The website was refreshed and a new interactive, real-time application, 'sli.do', was trialled, allowing real-time polls, questions and comments to be posted during presentations.

### Kairūri Community Trust Launch

An exciting activity during the year



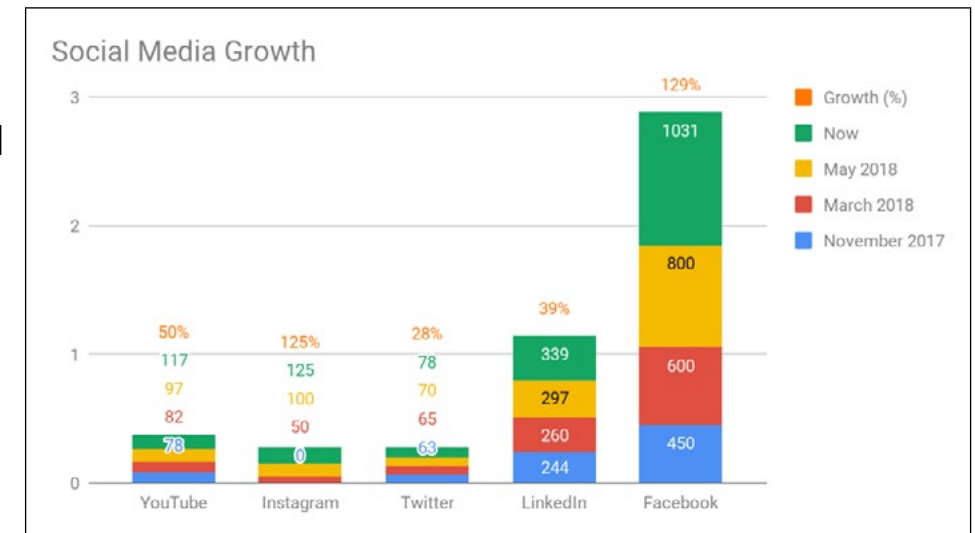
was supporting the launch of the independent Kairūri Community Trust and website to members, sponsors and commercial partners.

The purpose of the trust is to benefit the profession and the community and create a legacy for the future. The trustees' objective is to build up awareness, grow and educate the public on the surveying and spatial community. This future focus gives benefactors the opportunity to provide educational scholarships, support inclusive school programmes, foster diversity and encourage the next generation of surveying and spatial professionals.

See how you can get involved at [www.kairuri.org](http://www.kairuri.org).

### Social Media

Participation in the social media space has steadily grown throughout the year with increased engagement, activity and followers across all platforms and introduction of some new ones. We have consolidated



our Facebook account by removing some individual Facebook pages, such as the Young Professionals, and reforming them into a group under the @surveyspatialnz umbrella. This ensures we have consistency of brand messaging. Our current social platforms are Facebook (including [Facebook groups](#) connected to our main page), [Twitter](#), YouTube, [Instagram](#), sli.do and [LinkedIn](#).

### Website

There has been continued strong use of the website 'Jobs Board' throughout the year reflecting the shortage of surveyors in the market, particularly licensed cadastral surveyors.





## Tabled Report to Business Plan continued

The Professional Entrance Exam pages were updated, and new pages created for the exam procedure and the Cadastral Law Exam. The Young Professionals created a video to help demystify the annual examination procedure:



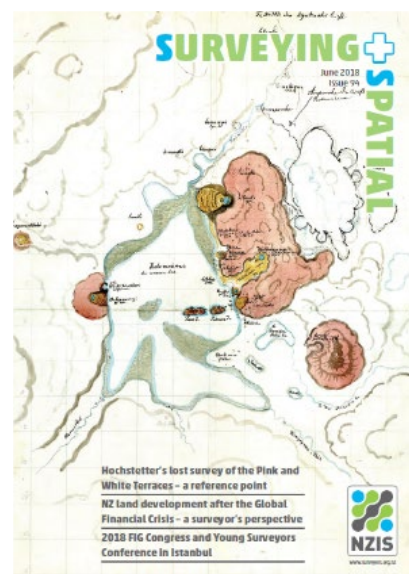
Uptake by streams and branches of the additional functionality that allows them to edit pages and send emails to their group has been slow.

We are monitoring the traffic and user behaviour across our main website and the conference website independently, with the integration of Google Analytics. This information is important to understanding how users interact with our information and provides insight into the type of information

users are seeking. (Refer to the graphs under Membership Demographics).

### Publications

Issue 304 of the *NZ Surveyor Journal* was published in December. The issue was compiled and curated by editor Peter Knight. The four papers have been contributed by Brian Coutts, Mick Strack and David Goodwin. A limited number of hard-copies were produced, and the journal made available online. [https://www.surveyors.org.nz/members/nz\\_surveyor\\_journal](https://www.surveyors.org.nz/members/nz_surveyor_journal)



### Surveying+Spatial Magazine

Rachel Harris continues to produce high-quality magazines with thought-provoking content under her editorship. An article featuring a survey in the 1800s of the lost Pink and White Terraces was a highlight in the June 2018 edition.



Rachel Harris,  
*Surveying+Spatial*  
magazine editor

Preparations have been made to take the *Surveying+Spatial* magazine online due to a growing number of members preferring this option and the environmental benefits that result from moving to electronic publications.



## Tabled Report to Business Plan continued

Members who place a high value on receiving a hard-copy magazine can continue to do so. Approximately 200 members indicated this preference.

### Increasing Brand Awareness through Media and Engagement with Members

The Engineering Surveying Stream, supported by National Office, participated in the Civil Contractors New Zealand Association of Consulting Engineers New Zealand 2018 conference held in Hamilton in early August. Experiential marketing was trialled by getting participants to draw a bridge which had a positive impact and proved popular with participants. This activity changed the awareness of our brand for most of these people. A brochure was created for this event, explaining the advantages of hiring an NZIS member and explaining RPSurv.

Following the conference in July, we held another “Who Am I” competition using products left over from the conference. Our members were pleased to receive the prizes and their achievements were posted on social media.



Michael Cuttfield (right)  
Chair of the Engineering Surveying Stream



### Media

S+SNZ Fellow Bill Robertson featured several times in the media. He was recognised by the University of Auckland in its Distinguished Alumni Awards and he featured in an article in Issue 151 of the *NZ Geographic* magazine.



NZ Geographic image of Bill Robertson by Rob Suisted





Michelle Bain, S+SNZ Board member, was interviewed by Mark Sainsbury on the Radio Live show in March as part of the Global Surveyor's Day. Read [media release](#).

Melissa Harrington, Rob Mears and Claire Buxton were all featured in the monthly *Leaving School* magazine which is issued free of charge to all school leavers.

### BACHELOR OF SURVEYING LOCAL AND GLOBAL OPPORTUNITIES ABOUND

writer **SARA CARBERY**

During her final year at Timaru Girls' High School, when she was tossing up between degrees in geography or civil engineering, **MELISSA HARRINGTON's** geography teacher suggested she throw a degree in surveying into the mix.

Put simply, surveying involves mapping the Earth's surface to determine boundaries, locations, topographic features and man-made structures; hence the fit with geography. Intrigued, Melissa headed to an open day at the University of Otago



The two-year programme has seen the 28-year-old testing leading edge technology, defining future products and working at Trimble SketchUp (formerly Google SketchUp).

Now, based in Boulder, Colorado, she is travelling around North America and further afield, selling technology solutions to Trimble's customers.

"What I love about my job the most at the moment is the people, the travel opportunities, and playing a key role in defining the future technology to be used by surveyors."

As Melissa's career is growing, the opportunities

CADASTRAL SURVEYOR

### THE SCIENCE OF LAND MEASUREMENT SURVEYORS IN STRONG DEMAND

writer **SARA CARBERY** // photographer **ALAN STEVENS**

**ROBERT MEARS** chose surveying as a career because working outdoors and with large-scale, visual projects interests him. He likes maths too, which helps, but most of all he enjoys using his skills to solve real-world problems.

"It is massively rewarding to come up with a solution for a problem using skills that are unique to our profession," Robert says.

With a Bachelor of Surveying from the University of Otago to his name, Robert is a Licensed Cadastral Surveyor and Survey Team Lead with WSP Opus in Auckland. His job involves defining – and solving problems around – land boundaries and property rights.

"Boundaries are often affected or changed due to changes to the land form," he explains. "It is my job to change or amend boundaries and depict where boundaries or rights lie."

The most challenging part of his work is keeping up with the rapid advancements in surveying technology.

"Both software and hardware are developing constantly and there is always something new to learn that will add efficiencies or allow us to better express our work."

Robert (26) grew up in South Otago on a dairy farm and boarded at Otago Boys' High School. In his final two years of NCEA he took Calculus, Statistics, Graphics, Chemistry, Physics, English and PE.



Sometimes that is on a flat piece of paper, which means that we need to know what views will most

"What I enjoyed most about the surveying degree was that the classes were small and because everyone

### BECOME A SURVEYOR MIXING HISTORY, SCIENCE & COOL TECHNOLOGY

written by **SARA CARBERY** // photograph by **MARTY MELVILLE**



IF YOU LOVE NEW ZEALAND AND LIKE THE OUTDOORS, MATHS AND PROBLEM SOLVING ... BECOME A SURVEYOR, SAYS **CLAIRE BUXTON**.

CADASTRAL SURVEYOR

89



### Education and Continuing Professional Development

#### Examinations

##### Cadastral Law Exam

This year, a record number of 75 candidates attempted the exam. Fifty-five candidates achieved a PASS, representing 73%. Twenty candidates did not reach the minimum mark of 60% required to pass, representing 27%.

##### Professional Entrance Exam

In April, 18 candidates attempted the entrance exam, with 7 achieving a pass without further requisitions (38%).

The Young Professionals group has developed a series of live stream webinars to help candidates study for the Cadastral Law Examinations, with a good attendance rate.

#### Continuing Professional Development

With the change of staff at the end of the year, a revised strategy focusing on live streaming events came into place. We are now able to live stream events from any location.

The Young Professionals Group was the first to explore that opportunity, developing a study group series delivered by experts for the Cadastral Law Examination. These study groups were live streamed in order to include all S+SNZ members around the country. The webinars were of high quality, with great attendance. Those events were followed by a three-part geospatial webinar series, which also generated great interest from our members.

#### Events

UAV Law and the Construction Contracts Act  
External Spread of Fire  
Gas Testing  
Traffic management Seminar  
Property Law Seminar  
Project Management  
GNSS/GPS Seminar for Cadastral Surveying  
Introduction to SNAP

#### Webinars

Useful Geospatial Tools for Surveyors  
Geospatial Data of Interest to Surveyors  
YP Cadastral Law Exam Study Group

In summary, Survey and Spatial New Zealand events will aim to include all members by providing them with an opportunity to participate in CPD events online. Our events will create higher engagement and provide members with a way to be connected with other members regardless of where they are.

We encourage participation in our events as it highlights networking and sharing of knowledge with your peers.







## Commercial Partners

Survey and Spatial New Zealand (S+SNZ) commercial partners have grown in relevance over the last few years and our profession is fortunate with the calibre of support provided by them. Through their actions, they have consistently shown that they are more than investors; they are a growing part of our culture and add something new and unique to our profession. They do this as they have been personally exposed to our people and our profession and they enjoy the fellowship that is so evident within our culture.

The contributions made by Glenn Stone Insurance, AllTerra, Global Survey, Accurate Instruments, Eighty4 Recruitment, WINC and Position Partners are much more than a line

item in the budget. They are contributing context and delivering content at branch meetings, our conference and in almost every project we offer in support of membership.

The Diamond Partners are the prime focus for our partnership and support structure with AllTerra (Premier Conference Partner); Glenn Stone Insurance (the Gala Conference Dinner); Global Survey (Conference and event support); Eighty4 Recruitment (recruitment and HR support); WINC (NZ-wide office equipment and support) and Accurate Instruments (equipment and training) standing with our membership. These relationships are growing annually as each finds a fit in our sector.

In effect, this family of six are called diamonds because they support our ability to exposure our members to sector related

businesses and importantly, allow us to offset our membership costs. Our Diamond Partners plus Position Partners (our Gold Partner), are the second largest financial contributor to our operational and project related costs. We ask of members, in return, to support each by adding them to the marketing mix when considering any purchase or the need for services. That outcome is important, and a quick check of the financials should suggest why that is growing in importance.

We also have many companies who support the annual conference by way of trade stands and with technical contributions.

S+SNZ gratefully recognises and acknowledges this growing investment and support given by this significant group of companies.



### Policy and Advocacy

Since the position was filled in November 2017 work has been heavily skewed to advocacy.

NZIS briefed and met with the incoming Minister for Land Information, Hon Eugenie Sage, to discuss the role of the survey profession in ensuring the maintenance of the integrity of the title system upon which our economic development depends as well the contributions that survey and spatial professions can make in helping to critical issues such as the housing shortage and climate change. At the ministerial level we have also advocated for full funding of ASaTS to deliver greater functionality to the Minister of Finance, the Minister for Land Information, and the Minister of Housing and Urban Development. Making our professions' contribution more visible and advocating for greater high-level involvement of NZIS will continue on critical issues such as housing, workforce shortages and climate change.

In addition to ASaTS, we continue to work with LINZ on a number of matters including advocating for the uptake of NZVD2016

which will start with a pilot in Hawke's Bay and the roll-out of a joint LINZ-NZIS national implementation programme next year.

Our engagement with other national and professional bodies continues to expand with the Memorandum of Understanding (MOU) with the Pacific Survey and Geospatial Council that was signed in Tonga in April 2018. Also, in April, an updated MOU on Quality Planning Partnerships was signed with the Ministry for the Environment and a number of professional organisations. At year-end Memoranda of Understanding with the Cadastral Surveying Licensing Board and ACENZ (Association for Consulting and Engineering Professionals) were being developed, along with NZIS becoming a founding member of the Diversity Agenda.

NZIS is continuing to advocate its position by responding to calls for submissions on matters that relate to the profession:

- we advertised the International Land Measurement Standards consultation on *Draft Standards for International Reporting* for members to provide direct feedback
  - the Cadastral Professional Stream prepared a submission on the first phase of the Surveyor-General's review of the *Rules for Cadastral Survey 2010*
  - at year-end, submissions were in progress on the second phase of that review and also on the Ministry for the Environment's *Draft National Planning Standards*.
- NZIS also made legal representation and provided an expert witness to support to a member's application to the Environment Court seeking a declaratory judgment on whether conversion of cross-leases to fee simple title fell within the ambit of section 218 of the Resource Management Act 1991.

On the policy side we have assisted with the Governance Review, documentation relating to the Examination Panel and updating of a number of internal policies. Quarterly scans of proposed legislation have been introduced so that NZIS can contribute to policy development at the Select Committee (or earlier) stage on matters affecting our survey and spatial professions. Scanning of local authority websites is now



something that branches may wish to do after the first national scanning exercise associated with the long-term plan reviews by local and regional authorities.





# NZIS Strategic Plan Key Objectives – Results 2017-2018

THE FOLLOWING KEY outcomes were sought in Year Two of the 2015 to 2020 NZIS Strategic Plan. The traffic light reporting system is explained as follows:



RED = **Not achieved**, unlikely to be achieved or now a focus for the next financial year



ORANGE = Progressing but there is a problem with timing, budget, personnel etc that has caused this outcome to **be delayed**










GREEN = **On track** to be achieved or actually achieved

Key Objectives	Score	Comment
<b>1. Support and add value to members and the sector</b>		
Growth in membership numbers		Small growth achieved. Need a sustained campaign in 18/19.
Increase the value of CPD and training opportunities		Review of policy delayed but will take place in 18/19. Committee numbers being increased to reflect volunteer demands.
Increase diversity across the organisation		Big focus at conference and in the buildup to signing on to the Diversity Agenda. Much more to do but heading in the right direction.
RPSurv is the recognised advanced professional standard for S+SNZ		Tied up with certification review that is ongoing and should be launched around the 2019 AGM.
<b>2. Uphold and promote professional standards</b>		
Ethical complaints responded to and reported		Complex complaints have stretched resourcing, but outcomes are well responded to and reported by the Ethics Committee.
Review of all professional policy and procedures in an agreed cycle.		All priority policy updated but more work required in 18/19 to ensure a regular cycle is applied.
<b>3. Lead and advocate for the profession</b>		
Identify and partner with like-minded organisations		Strong partnership bases being developed with like-minded organisations such as ENZ, ACENZ, QP, Planning Institute and similar.
Grow our key leadership base		Insights into Governance Seminar ran as part of the AGM with 20 supported to attend. Looking to repeat a similar course in 2018/19.

## Strategic Plan Key Objectives – Results 2017-2018 continued

Key Objectives	Score	Comment
NZIS recognised as the peak body representing the surveying and spatial sector in NZ		Good traction being made on key issues that are a focus for the new Government and our sector. Dedicated staff now able to support members with key submissions.
<b>4. Enhanced recognition and understanding of our role</b>		
Review and enhance the educational scholarship structure		Launch of the Kairūri Community Trust – a registered charity, was a major achievement. Awareness campaigns will grow over the next year.
NZIS recognised as the peak body representing the surveying and spatial sector in NZ		Good traction being made on key issues and topics that are a focus for the new Government and our sector. Dedicated staff now able to support members with key submissions. Marketing Plan using the new name and focused on external awareness of our profession will grow awareness.
Meet annually with key local and government representatives		Good connections being made. Dedicated staff now able to support any required focus.
Produce in conjunction with universities and polytechs a school leavers information pack		Partially developed and online. Campaigns to support and raise awareness and value being rolled out in 18/19.
Establish a social media presence through branches, streams, divisions and SIGs		Our social media presence has expanded dramatically with support for dedicated staff for every platform. Live streaming and webinars are now common and reliable platforms. Public access to information is growing on every social media platform.

Key Objectives	Score	Comment
<b>5. Grow the sector</b>		
Engage with LINZ and other Government organisations		Good levels of interaction being made with a key focus on ensuring ASaTS reflects our professions vision.
Consolidate existing, and develop new, commercial connections and partnerships		Good levels of traction being achieved in all key areas.
Evolve a S+SNZ event to a highly recognised state		S+SNZ Conference and NZSEA presentations evolving well and key to our progress in 17/18. Reversing our financial loss, a focus for next year. S+SNZ Awards a priority for 18/19.
Review of our rules		Rules review complete. Name change put to members and passed. Remaining review to be resolved at 2018 AGM.
Establish an annual sector economic survey		Working with key partners to establish a format that will support our ability to influence growth that will support our profession and the outcomes needed by our communities.
Establish long term forward planning to address identified professional shortages		A White Paper is being written by S+SNZ and should form the foundation for some strong advocacy in 2018/19.
<b>6. Ensure a sustainable NZIS</b>		
Key plans, risk analysis, budgets, staff and policy in place to ensure the appropriate compliance focus for S+SNZ		All systems and plans are overseen by the S+SNZ Council and Board and adhere to all legal and compliance required, as indicated by the positive audit result.



## Career Story: Elle Archer



It is SATURDAY morning and I have just sat down at my kitchen table to write this piece that I have been procrastinating over from the time I was asked to submit it.

Today, like many other Saturdays before it, is no different to the rest. The alarm went off at an unspeakable hour because I forgot to disengage the damn thing, I caught up with a few customers, reviewed board papers, and got stuck into the obligatory housework that waits for no-one.

At this moment, my dreary old mop and bucket stare at me from across the kitchen, and I am happy to avoid their glare for as long as it takes me to pen this article for you. I question why it matters so much to me to mop my floor, as I did it just last week.

My declared dithering on this write-up stems from the fact that I have been mulling over how to present myself and my professional journey to you all. Primarily due to fact that most of you have a fairly logical structured intellect with perhaps a touch of brilliant scepticism, and also because I feel



*Elle Archer in Italy*

that the pathway I took to get to where I am today can be construed as going against traditional norms (whatever they are deemed to be these days). So, I think it best I present me as me and move forward.

As I have a limited amount of words, I think it only fair that I start this condensed version of my professional pathway with how I was shaped to walk it.

I was raised to be independent, to work hard, to take responsibility, to know the value of a dollar, to respect my elders, to listen, to

## The Purpose of a Mop





learn, to understand that there is a lesson in everything, to serve first before taking the lead, to speak up when I had value to add, to be humble, to be bold when the need arose, to broaden my shoulders, to eat well, to call a spade a spade, to play a straight game, to love, to fight when needed, to read every day, to never be afraid to admit my failings, and to earn the right to sit in the seat I choose.

As a child I wanted to know how *everything* worked. From mechanics to electronics, emotions to psychologies, business to economics, science to technology, how life came to be, what controls it, and why does it end. My parents tell me that I always wanted to understand the wider picture of everything, so I could understand my place in it. It is a fairly basic way of looking at things, but that is how I am built.

I have been earning my way in this world since I could walk. I was the kid that wagged school to go to work, the one that left home early because I knew everything, the one that could take on the world and nothing was impossible. In some ways I am still that kid, although a little less ignorant. Johnny Carson

outlines my thoughts on this best; 'I was so naïve as a kid that I used to sneak behind the barn and do nothing'.

Hospitality and sales is where I planted my first professional flag. As with everything in my professional walk, I started from the bottom, worked my way through roles, and climbed the ladder. I was often referred to as the 'baby boss', a title I was only too happy to shake as I aged up. I left these arenas after a decade-plus in general management positions, as I understood that without capital to start my own business I had reached the ceiling. I left a large loft apartment in Auckland city, a flash car, a rather large cash-in-hand pay packet per week, to start work within the trade technology industry as a filing assistant for \$10 dollars an hour. For those that have lived through starting again at the bottom in a different profession, reciprocal high-five.

I realised quickly that without a formal or trade education (I only had psych quals at this stage), that I wasn't going to go as far as I wanted. Also, the kid who wanted to know everything about everything, well her curiosity



was in peak mode. So, I put my head down, reactivated brain cells, opened my ears, and went about educating and upskilling myself.

I started with utility survey field work, moved onto an ultrasonic inspection trade certification, and then completed a business degree majoring in strategy. I was hooked on learning in these spaces, and was a sponge

from then on in. I took up apprenticeships, logged hours, completed papers and courses in multiple hard sciences, and went from theoretical study to practical applications in multiple fields.

My primary focus areas were in spatial infrastructure and structural testing and analysis. Because I had people who believed in me (Accurate Instruments (NZ) Ltd had a lot to do with it as they released me to develop myself. I will always be grateful, and it is one of the reasons why I work on this entity today), I was given the privilege to travel around the world, speaking too and learning from multiple specialists in each field. I am glad to say that I have strong relationships with those individuals to this very day.

As the years went by I finally realised what all the learning, commitment, and hard work amounted to. I was multi-science educated and because I understood the sciences individually I could also see patterns in how they interacted with each other. When this thinking was applied to technology, integrative solutions thinking was an organic progression. And thus, Elle the *technologist* was born.

One of the main things that I have taken away from my experiences thus far, is like everything in life, we get out what we put in, and we must ensure that we put back what we got out.

To be honest with you, as I now prepare to move into my 40s, in some areas I feel that I am only just beginning, whereas in others I feel confident that I can add significant value to key spaces.

At this moment I am going through a restructure in my professional life. There are 3 main reasons for this. The first is that I have built successful areas and it is time to hand these over to others to build upon, so I can focus working *on* causes and not *within* them.

The second reason is simple. I am not Superwoman, at times I stretch myself too thin, and I can't aid in adding value to the universe if I am not here to do so.

And finally, I want to start transitioning a percentage of my time into my, and my husband's, core purpose (the reason we get up every day), which is founding our foster leadership home. Our purpose is clear; To help and nourish those that have been

undernourished, so they can move forward and become productive valuable members in our communities. It is a part of life, but sometimes our professional causes (and there are many) have overshadowed this purpose and hindered our personal contribution to society. I think this happens to a lot of us.

At the end of my life I want to look back and know that I have done the very best with the time I was given, and that the legacy I leave behind will be for the betterment of all. In this thought landscape everything we do influences our own outcomes, therefore everything we do matters. Every interaction, every social media post, every job, every speaking engagement, and every mundane task – it all matters.

So, I am going to save this document, get up from this chair, pick up that dreary old mop, and clean my floor. Clean floor, clean environment, cleaner mind, cleaner slate. I suppose that mop is not looking so bad.

*You will see Elle next at the Positioning and Engineering Conference in Auckland, 29 October 2018, where she will be presenting on Aerial Mapping and Concrete Analysis Technologies.*





# Branches

**17 BRANCHES**  
**Smallest branch: Gisborne 7 members**  
**Largest branch: Auckland 410 members**

BRANCHES ARE THE lifeblood of our membership and people who take on the challenge of being the Chair, Secretary or part of the branch executive are to be congratulated for all the time, effort and commitment they put into their profession at a local level. Our 17 branches are run by volunteers who bring members together, welcome new members, organise networking events, site visits and guest talks. Through branches, members in all career stages get an opportunity to network, share experiences and build friendships.

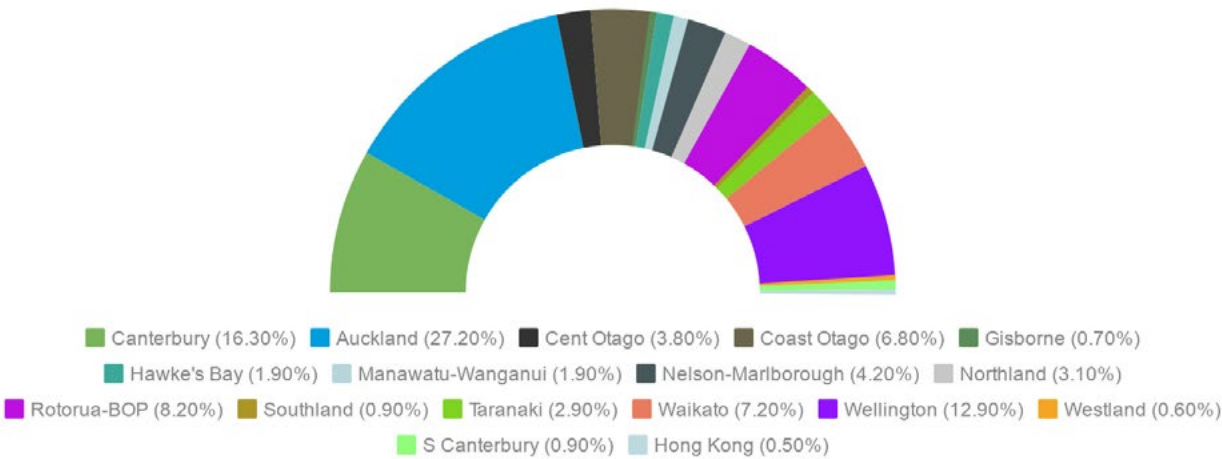


Andy Blackman

Meet Andy Blackman, Chair of our biggest branch with just over 400 members. Andy has filled this role for five years.

*“Personally, I thoroughly enjoy the role. It’s really rewarding and it’s great being in a position to assist others, in the same way that so many have helped and encouraged me at various stages of my career.”*

Branch Membership



## Branch Reports (click to view)

- Auckland
- Waikato
- Rotorua-Bay of Plenty
- Hawke's Bay
- Taranaki
- Gisborne
- Wellington
- Nelson Marlborough
- Westland
- Canterbury
- South Canterbury
- Coastal Otago
- Central Otago
- Southland
- Hong Kong



## 2018 Conference Nelson



WE RECEIVED GOOD support from our commercial partners and members attending the 3-day event in Nelson in May.

Nearly 300 people including presenters, sponsors, delegates, partners and exhibitors gathered at the Rutherford Hotel. The new format of Thursday to Saturday was followed to help minimise disruption to attendees. The local Nelson branch enthusiastically carried through the theme of 'Lord and Lady Nelson' during both the conference and the conference dinner which was held at the newly renovated Trafalgar Centre.



Once again, the National Technical Committee did a stellar job of creating a programme of local and international speakers who reflected the theme of Ambitious, Diverse and Connected.

We had over 64 speakers including the dynamic opening speaker Mai Chen, public law and super-diversity expert; Matt King, Professor of Polar Geodesy at the School of Technology, Environment and Design, University of Tasmania, and an uplifting, closing final presentation from Liam Malone, gold medal Paralympian and AI specialist.

A highlight at the conference dinner was the announcement of the Kairūri Community Trust (KTC) where key sponsor Glenn Stone



very generously presented a cheque to trustee Jayne Perrin.





# 2018 Conference Nelson continued

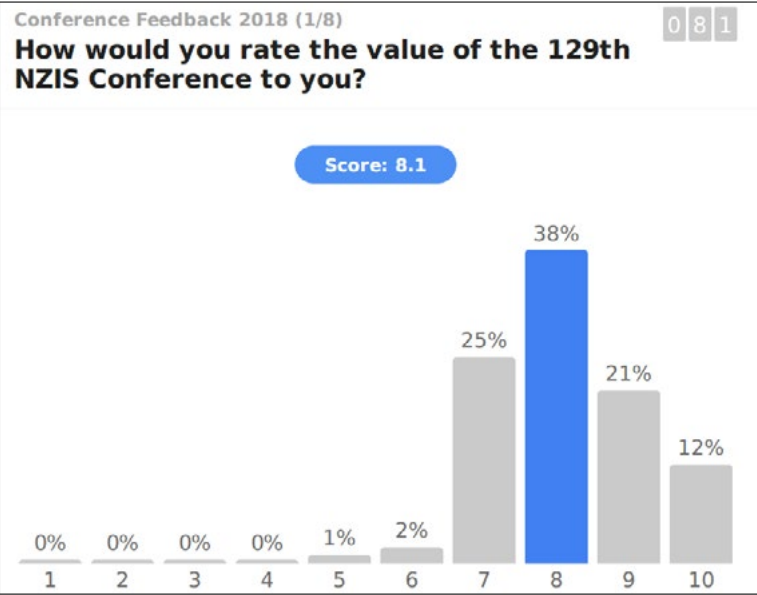
To increase engagement from delegates, a new interactive conference application called ‘sli.do’ was trialled this year for the first time, allowing real-time polls, questions and comments to be posted during presentations. This proved popular with frequent use by delegates over the three days, who were also able to evaluate the conference in real time.

We wouldn’t be able to have a conference without the support of our commercial partners and exhibitors and we thank the following organisations for their continued support of this event. Glenn Stone Insurance, Global



Survey, Eighty4 Recruitment, Accurate Instruments and WINC and all our conference exhibitors: Topcon, 12D Synergy, 12D Model, Listech, Ferntech, Position Partners, Survey Solutions, LandPro, Faro, Global Pos, The

Insurance Place, Trig Instruments, Overview Surveying, A2K and Carlson Software.





# Kairūri Community Trust

THE FIRST YEAR of the Kairūri Community Trust (KTC) has been about building up the trust reserves, developing the KTC brand, launching the website and inviting involvement from interested parties. In May, at the conference in Nelson, the KTC was formally launched to members at the conference dinner.

The launch included an auction of items contributed by Accurate Instruments, Allterra and Global Survey and was followed by a very generous donation from Glenn Stone Insurance. With the launch, the trust got off to a great start with \$20,000 raised on the night.



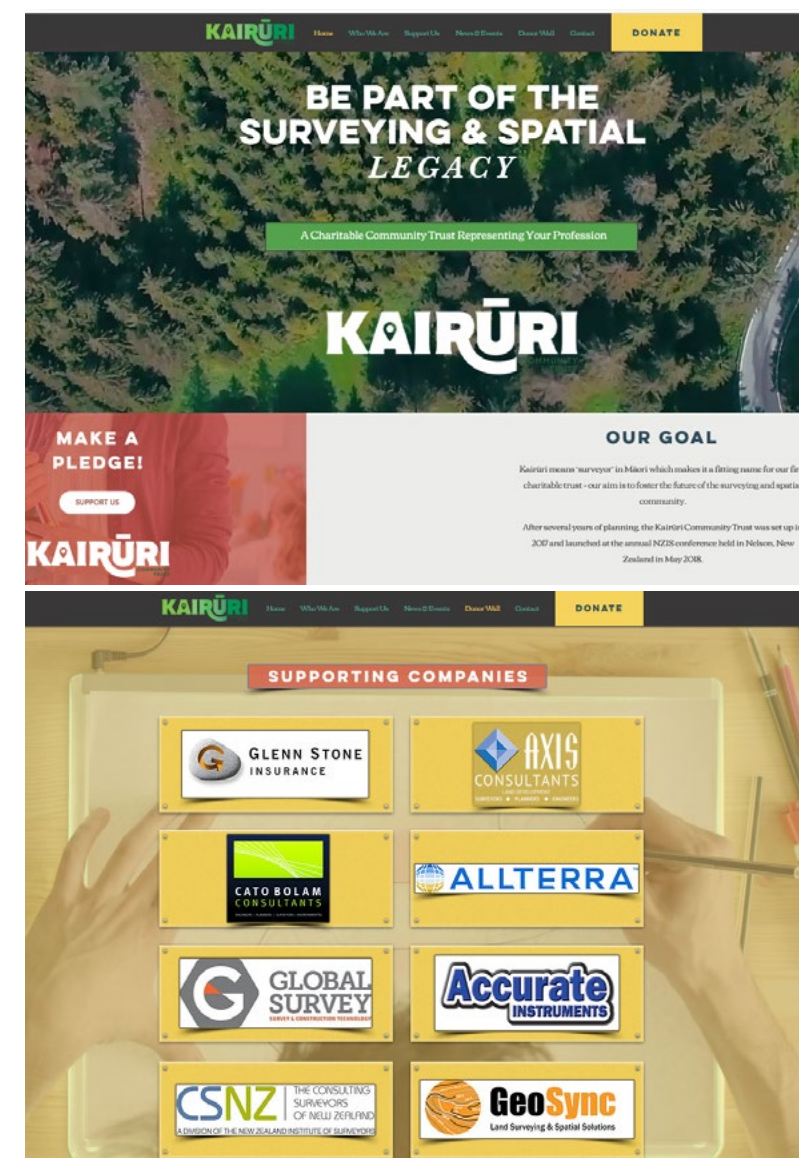
Trustee Jayne Perrin accepting Glenn Stone Insurance's donation to the KCT.



The purpose of the trust is to benefit the profession and the community and create a legacy for the future. The trustees' objective is to build up awareness, grow and educate the public and profession on the surveying and spatial community. This future focus gives benefactors the opportunity to provide educational scholarships, support inclusive school programmes, foster diversity and encourage the next generation of surveying and spatial professionals.

An essential aspect of the trust, reflected in the charitable status and the appointment of independent trustees, is the complete independence from Survey and Spatial NZ operations. The trustees are well respected in the surveying and spatial community. Trust Chair Bill Robertson, ONZM is joined by trustees Jayne Perrin, of Beca, and David Fox, founder, of Fox & Associates.

The trust will grow in significance in the coming years and the trustees look forward



to raising awareness and involvement within our profession and communities.

[www.kairuri.org](http://www.kairuri.org)

Bill Robertson  
Kairūri Community Trust Chair







# Stumbling into Opportunities

I WAS CLOSE to going down a very different path to surveying on multiple occasions. Growing up on a dairy farm in South Otago, plying my trade on the footy field was all that I was really interested in. It was the sole reason for deciding to attend Otago Boys' High School and being an academic success was a long way off my radar. Rugby was soon overtaken by rowing, and classes were used as recovery time between trainings. I was told by a few

teachers that it would be more comfortable if I just bought a pillow to class... Somehow, through pure luck mostly, I managed to get achieve University Entrance by a single credit. Tertiary education was still something that I regularly palmed off. I spent the University of Otago open day helping a mate install a new set of bullbars on his truck. Regardless of my lack of interest in NCEA, maths was the class that I found most enjoyable and where I got most of my credits.

My partner's mother, rather than beating some sense into me with it, dropped the Otago Prospectus in front of me and told me that I better study a degree if I was going to date her daughter. I flicked through, landed on surveying, which sounded like a good time to a farm kid who liked maths and problem solving, and then all of a sudden I was enrolled.

I still love going back down to the School of Surveying, it's like a big family. The all-out panic study sessions or the 3-week grid of "Hell Camp" are some of my fondest memories now, even if they were less than



## Rob Mears continued

pleasant at the time. Somehow I ended up as OUSSA President, to the amusement of the bloke who nominated me on the fly. It was all fun and games until the visits to the Dean's office to explain whatever mishap had occurred at our latest event.

My only stipulation for a job was that I would not be working in Auckland. Simply wasn't interested. Turns out this company called Woods sounded right up my alley, so I applied and got offered the job and then promptly moved to Auckland in November 2014. The city life didn't turn out too bad, and neither did the work. In fact, I absolutely thrived on it. I enjoyed the scale of working on large land development projects, and the problems that needed to be solved to make them work. I particularly enjoyed when there was the opportunity to venture into the rural fringe of the city, rather than surveying well-worn marks that were observed every day. Over the next three years I worked my way along the path to becoming a LCS, and in November 2017 finished it off with the Professional Interviews.

Professionally, one of the best opportunities I have been presented with was to be involved with NZIS's Young Professionals Group (YPG). Within the first 6 months of being at Woods, Managing Director Dan Williams pointed me in the direction of the YPG Executive Committee, and three years later I'm now the Chair of the group. I have learnt untold amounts of skills from the group that I have had the privilege of working with. It's inspiring to work with such motivated and passionate individuals. Serving on the NZIS Council and advocating for YPs has been a highlight, and I've seen our voice increasingly valued over the time I've been involved. Attending both NZIS and FIG conferences has given me a broader understanding of the skills and mindsets of the people within our profession, and it's something that I think has given me skills that I would never have gained elsewhere.

The surveying profession is something that I definitely stumbled into, and I sort of feel like I have been stumbling ever since entering it. I think I could have quite easily



*Young Professionals from left: Rob Mears, Jono Renwick, Melissa Harrington, Claire Buxton and Taryn Martin.*

fallen over several times if it hadn't been for the fact that I feel I've become good at grabbing at opportunities. Sometimes those opportunities have been easy to reach and almost happened by coincidence, others I've had to fight for, while some have been placed in front of me. I hope that moving forward, more young people in our profession see the value in grabbing the opportunities that are put in front of them. I just know that I make a lot better surveyor than a rugby player or a dairy farmer.



# Professional Streams

Smallest stream: Hydrography 63 members

Largest stream: Cadastral 575 members

Our PROFESSIONAL STREAM leads are the technical specialists advising on members' interests and concerns through their representation on the Council. Stream input is critical – they form ideas and plans ensuring we hear the technical 'voice'. It is through the commitment of highly skilled volunteers that streams operate successfully – they generously give their time and expertise to the public and members.



Meet Rachelle Winefield, Chair of the Positioning and Measurement Professional Stream since 2013.

*"I have enjoyed being the Chair as the P&M Stream embed ourselves in S+SNZ. We have an enthusiastic committee, who are leading the stream in a clear direction. However, one of our biggest challenges is how to best interact with our members."*

## Professional Stream Reports (click to view)

Cadastral

Engineering Surveying

Hydrography

Land Development and Urban Design

Positioning and Measurement

Spatial

## Special Interest Reports

SPECIAL INTEREST GROUPS are formed as they are required and can be project driven, or more permanent, such as our Young Professionals Group. They are run by committed volunteers and technical specialists who have the expertise to understand and work through complex issues.

### Young Professionals: 266 members

The Young Professionals Group provides a support network for professionals building up their careers. They help graduating students and early-career surveyors and spatial practitioners develop their careers and provide opportunities to meet up, exchange ideas and build networks. With representation on the Council, they provide a channel for the 'young voice' to be heard. Their work helps members to accelerate their learning and their careers.



Meet  
Rob Mears,  
Chair of  
our Young  
Professionals.

*"Professionally, one of the best opportunities I have been presented with was to be involved with NZIS's Young Professionals Group (YPG). It's inspiring to work with such motivated and passionate individuals. Serving on the NZIS Council and advocating for YPs has been a highlight, and I've seen our voice increasingly valued over the time I've been involved."*

Rob is a licensed cadastral surveyor at Opus WSP in Auckland.

### Special Interest Reports (click to view)

[Young Professionals](#)[Women in Spatial/Survey](#)[Consulting Surveyors NZ](#)[University of Otago](#)[Royal Society](#)[Advanced Survey and Title Service](#)[FIG](#)[Cadastral Survey Licensing Board](#)



# Audit and Risk Report

THE AUDIT AND Risk Committee (A&R) is a subcommittee of the Board. The role of A&R is to provide independent financial and risk advice to the Board. The committee meets five times per year, generally one or two weeks prior to board meetings. The minutes of A&R meetings are reported to Board meetings and assist the Board during consideration of the financial reports. The August 2018 meeting is where A&R considers the 2017-2018 end of year financial result and audit report and is the end point for reporting on the financial year.

The four members of A&R are unchanged from the previous year. Syd Beguely, a chartered accountant, brings strong commercial and accounting experience to the table. Bruce Kiddle is a business development director at Beca in Wellington and has now taken over as Chair of A&R for 2018-2019. The other members are Mark Goodin from the LINZ office in Wellington and Andrew Stirling, Chair of A&R 2017-2018 and Board representative. The CEO prepares reports and

minutes for A&R and attends all meetings.

Key work areas for A&R during the year included:

- Oversight of cashflow, debtors, profit and loss, performance against budget and balance sheet
- Oversight of NZIS investments managed by Forsyth Barr
- Consideration of risk and review of the organisation risk matrix
- Review and input to the 2018-2019 budget
- Review of financial reserves policy
- Investigation into qualitative & quantitative reporting examples
- Review of annual conference financial result and procedures
- Meeting with auditors Moore Stephens to review the audit report and discuss findings.

A&R considers that the 2nd audit conducted by Moore Stephens was thorough and covered some new areas of the business. The audit report recommended a number of

improvements to office processes which have been accepted and implemented by the CEO. The auditor's report and financial statements follow.

The financial statements this year have a different look to them. During the year the Kairūri Community Trust (KCT) was established as an independent charitable trust. The trust deed provides NZIS with the power to appoint trustees and therefore, NZIS is determined to have a controlling interest in the KCT. As a result, NZIS is required to present financial statements as a consolidated group for the 2018 financial year. For clarity we have set out the accounts in four columns, starting with the current year result for KCT, then the result for NZIS, then the result for the consolidated group and finally the previous year result for NZIS.

Consolidation of the financial information for the group presents a positive message for members. NZIS provides services and support to its members while KCT ensures that there is an ongoing strategy to secure



appropriately qualified professionals into the industry. Together the two organisations, and therefore the group, work for the benefit of the profession.

The financial report shows that NZIS suffered a disappointing loss of \$34k for the year on turnover of \$1,339,409. NZIS remains in a strong financial position with equity of \$404k.

*Andrew Stirling,*  
Audit and Risk Committee Chair

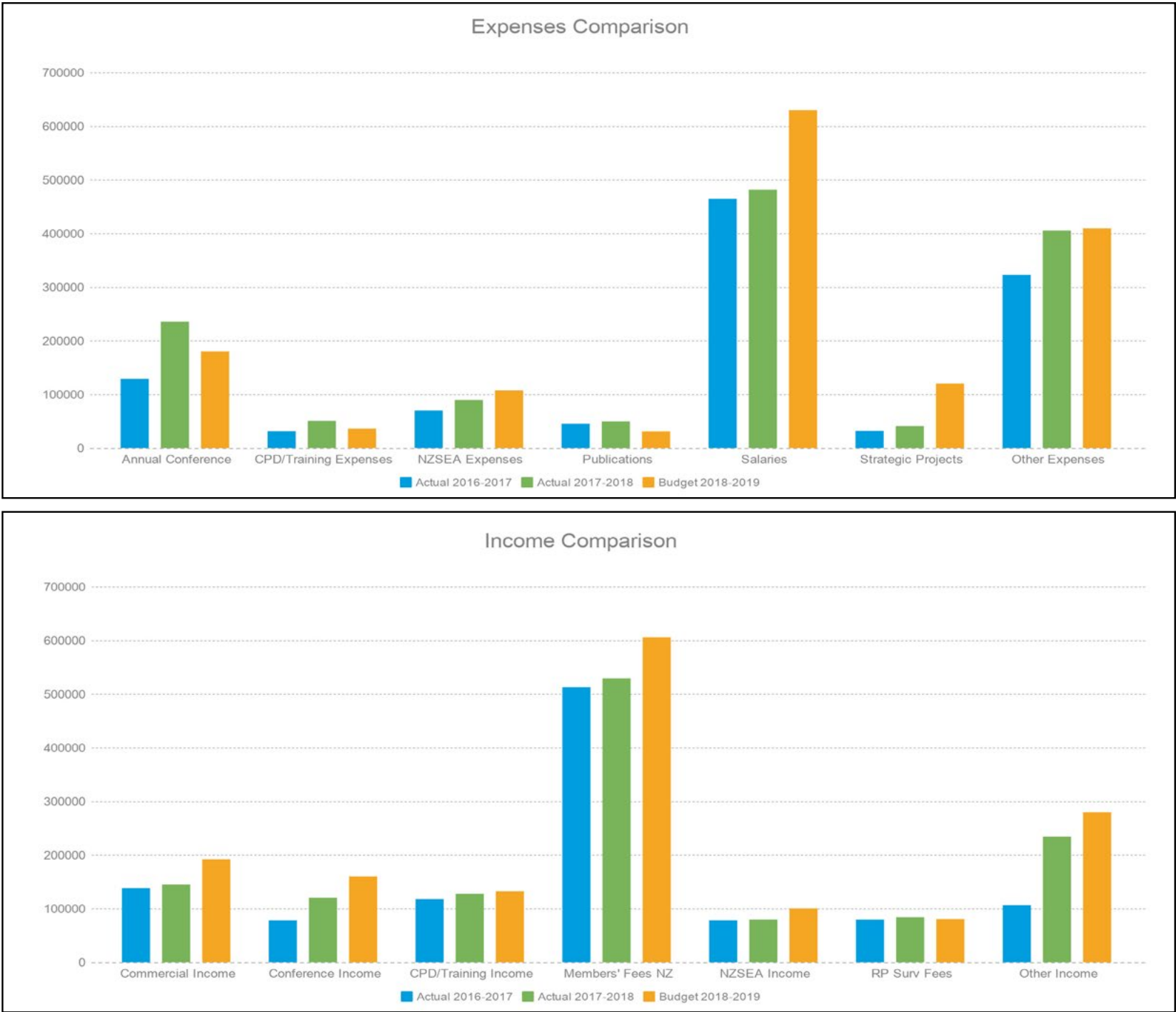


# Annual Financial Report

To READ THE full 2017-2018 annual financial report, please go to:

[https://www.surveyspatialnz.org/Attachment?Action=Download&Attachment\\_id=5331](https://www.surveyspatialnz.org/Attachment?Action=Download&Attachment_id=5331)

## Expense and Income at a Glance – 2016-2019 Comparisons



# NZIS Strategic Plan 2018–2019 Key Objectives

THE BASE FOR the plan has been simplified down to four headings. Our objectives remain the same but some of the headings have merged or evolved. The following key outcomes are sought in Year Four of the 2015 to 2020 NZIS Strategic Plan. The objectives stated will be reported on at the end of the 2018/19 financial year.

Key Objectives	Comment
<b>1. Growth – Grow NZIS by providing leadership and governance in standards, training certification, planning and financial management.</b>	
Remain relevant – lead the way by identifying future opportunities and embracing new technologies.	Membership value relates to relevancy. The name change and indeed our success revolves around ensuring our members remain connected and valued.
Develop and strengthen the S+SNZ brand.	A big focus needs to be given to community awareness and connection to our professional skill sets.
Deliver value to members and support their innovation, currency and competency.	A prime focus must be in ensuring we are identifying professional gaps and addressing them.
Develop a sustainable governance succession plan.	Leaders are a priority and a focus will be given to identifying and nurturing our future leaders for the profession.
Ensure prudent management of NZIS equity.	Good governance and management will safeguard and grow our equity as is required to support the profession.
<b>2. Advocacy.</b>	
Engage on relevant local, national, regional and international issues.	S+SNZ has the resources to support all level of advocacy with the appropriate focus. More traction is the target for 18/19.
Gather workforce data to identify gaps in the sector and seek solutions.	As part of our White Paper we need to assemble and prepare this data to support any proposition we wish to make.
Lead and uphold ethical behaviour.	This will be enhanced in 18/19 as we review the policy and increase the numbers on the Ethics Committee.
Promote the value of professional standards.	We must make this a community issue. Professional membership must be a sought-after item from the public.





Key Objectives	Comment
<b>3. Relationships.</b>	
Build a unified, strong brand.	The changing of our trading name was one step. We now need to progress our focus on certification, diversity, awareness and growth.
Engage with LINZ, other government bodies and organisations with similar interests.	Our stakeholder engagement plan is well established and will be applied by the Board and staff in 18/19.
Communicate and connect with members.	Communication must underpin every aspect of S+SNZ and the use of face-to-face, teleconference, webinars and all manner of social media interactions will be a targeted focus in 2018/19.
<b>4. Diversity.</b>	
Identify and recruit new membership.	The activities of the Kairūri Community Trust and our membership of the Diversity Agenda will assist but we also need to ensure we are relevant and supportive to existing members and towards new and young members.
Connect with secondary schools and tertiary institutions.	The activities of the Kairūri Community Trust will assist as will partnerships with LINZ and developing school programmes.
Develop and promote opportunities for sector minorities.	The Diversity Agenda will assist but we must be seen to lead the process towards change.



# Branches

## Auckland

Chair: Andrew Blackman

104 Associate members

178 Voting members

Over the last year, we have enjoyed meetings with the following themes and speakers:

**Sept 2017: AGM** – Andrew Stirling & Jamie Whyte – Negotiations with Watercare and Requirements of their Compliance Statement Policy.

**Nov 2017:** Jordan Friis – FIG Volunteer Community Surveyor Programme in Nepal and Johann Bernhardt – Subdivision Layouts to assist Passive Solar Design.

**May 2018:** Intro to Max Will, new NZIS Events & Marketing Coordinator and Andrew Stirling – Update on Meetings with Council's GMs of Regulatory Engineering & Resource Consents

**June 2018:** Kevin Marshall – Update on LINZ & Landonline, James Mowat – ASaTS and Nick Stillwell – NZIS Lead Consulting Surveyor for ASaTS.

This year there has been advocacy by the branch on the following:

- Traffic Management Requirements
- Cadastral Boundaries around Terrace Houses
- Retention of Trig Beacons on Volcanic Cones
- Watercare's Compliance Policy Statements & Access to Manholes
- Issues with the Rural & Urban Addressing Standard
- Council's Processes for Development Engineering & Resource Consents

From April to June 2018, the branch's Young Professionals representative, Jeanette Ma, organised a series of study sessions to assist candidates prepare for the Cadastral Law Exam. Thank you to those experienced surveyors that gave their time to tutor the group and assist them in understanding the practical application of the written legislation.

In May 2018, the branch and Unitec collaborated to attract secondary school students from the Auckland region, jointly attending the Careers Expo for School Students at the Epsom Showgrounds. Over the three days of the expo, Unitec lecturers,



a group of younger surveyors and Richard Hemi, from Otago University, engaged with school students, greatly increasing the visibility of the profession. Thank you to all those who assisted, especially Rowan Hallam from Woods, who prepared a great video and posters and arranged to have an eye-catching drone to display.

While we will continue to progress many of the above issues, planning is now progressing towards hosting the national conference in Auckland next year, with the Local Organising Committee starting a regular series of meetings.

*Andrew Blackman, Chair*





## Branches

### Waikato

Chair: Hannah Reader

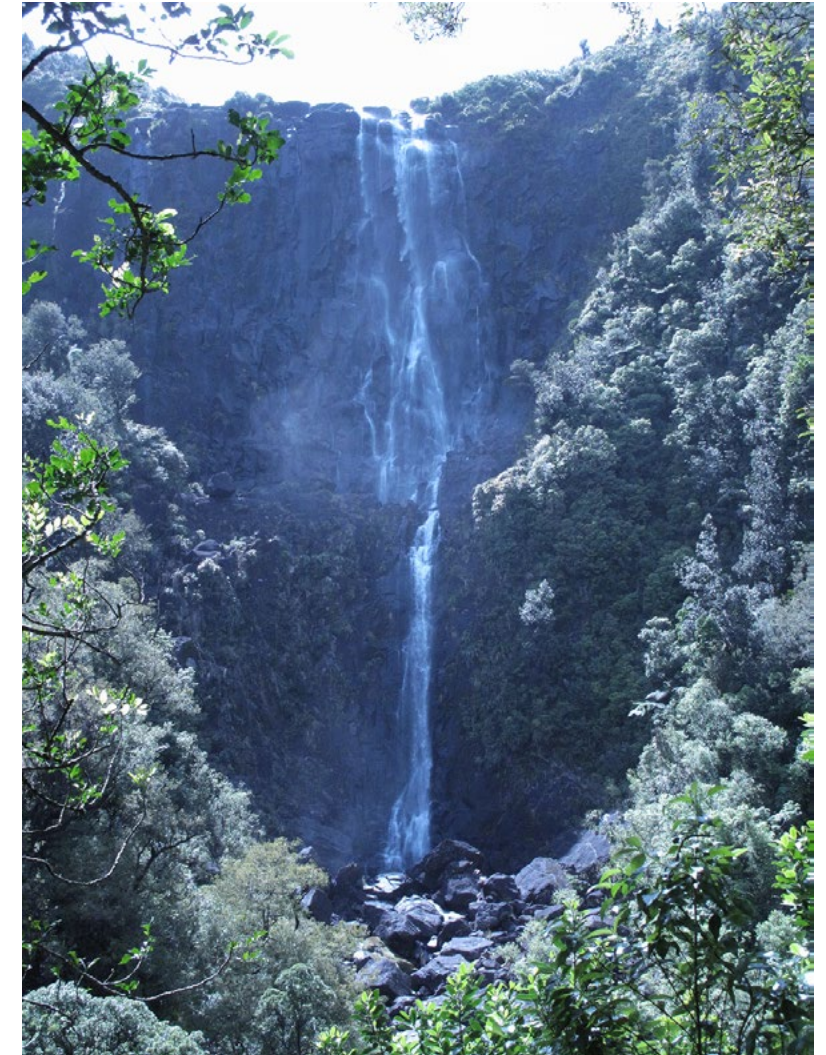
18 Associate members

57 Voting members

Over the past year the Waikato Branch has had a keen number of attendees at meetings. The highlight for the year was the combined lawyers and surveyors meeting, with an AsaTS update from Nick Stillwell beforehand. The turnout was much larger than anticipated, with a last-minute change in venue required in order to have space for 100 people. The meeting was a success, with lots of interested participation in the ASaTs discussion, and many questions asked during the lawyer and surveyor meeting which was themed around how lawyers and surveyors can work together better in the subdivision process. Many thanks to Thomas Gibbons and his team from McCaw Lewis on their participation in this.

The NZS3910 construction law meeting, held at the Avanti drome, was also well attended. The branch also advocated to the Waikato Regional Council regarding their lack of consultation with the NZIS regarding the changes to the stormwater management guidelines for the region and managed to get the deadline for submissions extended so a Waikato Branch submission could be prepared. Following this the Regional Council specifically requested contact details of members who would want to attend workshops on the changes, so this is seen as a success for advocacy in the Waikato. The aim is that the branch meetings will continue to attract high attendance rates over the coming year.

*Hannah Reader, Chair*



*Wairere Walls, Te Aroha (Photo-R.Fone)*



## Branches

### Rotorua/Bay of Plenty

Chair: Andrew Perry

21 Associate members

69 Voting members

The Rotorua/Bay of Plenty branch has once again had great turnout to branch meetings, with an increasing number of young professionals attending.

This year has been another busy year and doesn't appear to be slowing down any time soon with a buoyant local economy and migration of Aucklanders moving south. The change in government has seen some roading projects in the area go on hold, but that is countered by the increase in housing occurring and some larger infrastructure projects under way for the current and future growth of this area.

We have had 4 branch meetings with a mixture of interesting speakers including Mark Allan – NZIS President, Adele Hadford – Tauranga City Council, several speakers from LINZ, and Nick Stillwell – NZIS ASaTS Lead Consultant.

For our end of year event we had a great lawns bowls evening held at the Taupo Bowling Club. The weather was superb and once people worked out which way the bowls curled (we're used to dealing with straight lines!) there were some close matches. Thanks to all of the branch members who are turning up regularly and making this an active branch and a special thanks to our branch exec, who keep things running smoothly. Looking forward to another busy and interesting year!

*Andrew Perry, Chair*



## Branches

### Hawke's Bay

Chair: Brian Daly

8 Associate members

15 Voting members

The highlight of last year was a reciprocal social event which entailed inviting the Gisborne Branch to Hawke's Bay for a tour of the Cape Kidnappers wildlife sanctuary. This visit was organised with the assistance of branch member Andrew Taylor who has a close relationship with one of the land owners, Mr Andrew Lowe. The sanctuary had recently received national media recognition through the TVNZ series *Coast* and so was of particular interest to those who visited. The sanctuary is protected by a significant double predator fence arrangement with those most precious species being homed at a coastal cliff environment inside both barriers. The inner sanctuary has a significant population of tuatara and a growing population of

nesting seabirds and takahe. A picnic lunch was prepared by Nicole Alexander and enjoyed at a bach/operations base positioned close to Ocean Beach. The sanctuary tour was guided by the area manager Beau Fahnle. Beau explained the historical significance of the area to local Iwi and how the area had been transformed from an ecological desert to a valued environment with a significant halo effect for the wider Hawke's Bay area. The day finished with dinner and drinks at a local restaurant called the Bare Knuckle BBQ. NZIS was generous enough to provide some financial assistance for the event to cover some of the catering costs.

The event was a great success and a timely thank you to the Gisborne Branch for their own efforts a few years before.

*Brian Daly, Chair*





## Branches

### Taranaki

Chair: Vaughan Redshaw

6 Associate members

18 Voting members

A total of 3 branch meetings were held throughout the last 12 months with ASaTS lead consulting surveyor Nick Stillwell attending the latest to give us an update on the progress with ASaTS.

#### Workshops

A couple of workshops were held in conjunction with the New Plymouth District Council. One early in the year being a stormwater seminar, another being an update on the New Plymouth District Council's Draft Digital District Plan. The council is looking to implement the new District Plan on a digital platform rather than a paper-based platform. We look forward to seeing the progress of this.

### New Plymouth District Council Long Term Plan.

A submission was made by the Taranaki Branch on the New Plymouth District Council's Long Term Plan, opposing the Council's recommendation to partially sell off a portion of reserve land in Central New Plymouth. This was a contentious issue for the district as a whole, with widespread opposition to the proposal. Following the submission process, the council did a u-turn and withdrew the recommendation. Thanks to Pat Sole for spearheading the submission. Following on from this, Pat has been in discussions with LINZ and Puke Ariki to formulate a plan which would enable Taranaki land records to be returned to the province.

### NZIS AGM and Stakeholders Workshop

The Taranaki Branch Chair and Secretary (Callum Johns) attended the NZIS AGM and stakeholders' workshop last November; this

was an excellent couple of days with some good content and interactive workshops provided. It also provided a good chance to meet and discuss with other members of the Institute the many and varied aspects of the profession.

By and large, things still appear pretty busy in the province with plenty of work around. We look forward to the upcoming year.

*Vaughan Redshaw, Chair*



## Branches

### Gisborne

Chair: Paul Ericson

3 Associate members

4 Voting members

At last year's AGM I expressed my concern that we were in danger of disappearing as a branch if we weren't careful. One suggestion to revitalise meetings was to invite guest speakers and have the odd social gathering. Unfortunately, we didn't invite any guest speakers in the past year, but I think we should make that a goal for this year.

Fortunately, this year we were very pleased to welcome two young members in Tim Ronke and Patrick Pierard. We have now gone from 5 to 7 members and the input of youth is vital in keeping the branch refreshed and encouraging the input of fresh and new ideas.

Tim became a licensed cadastral surveyor in March this year, the first surveyor to gain this locally since some time in the 1990s. Patrick sat his laws and regs exam in June this year, one more step on the path to becoming licensed. These are positive signs

for the future of our profession and the Institute locally.

I attended the NZIS Stakeholders' Workshop and AGM in Wellington in November last year and I have prepared a separate report on that.

On the social front, a good muster of members and their wives convened at the Works Restaurant in December last year to gather socially and catch up over the year's events. The Hawke's Bay Branch hosted a return joint branch get-together in February this year which was attended by Paul and Peggy, Adrian and Heather, Tim and Cate and Kevin and Diane. It was extremely well organised. We started with coffee at the Red Bridge Café, where we caught up Phil Winters who some of you will remember was a registered surveyor for Lands and Survey many moons ago. We then congregated at Ocean Beach, where we were taken on a guided tour of the Cape Sanctuary. This is a fascinating area between Ocean Beach and Cape Kidnappers owned and funded privately and containing many native fauna including

takahe and tuatara. There is an ongoing pest management programme in place.

At the end of the day we drove back to town and met at the Bare Knuckle BBQ venue, which gave us a chance to catch up with a few more members and round off a very successful weekend.

I appreciate the support and interest the members have shown over the year, but I believe we all could put more into the Institute at a branch level, so let's make that our goal for the next year.

*[The full report of this abridged version is available at [https://www.surveyspatialnz.org/members/governance/Attachment?Action=Download&Attachment\\_id=5332/](https://www.surveyspatialnz.org/members/governance/Attachment?Action=Download&Attachment_id=5332/)]*

*Paul Ericson, Chair*



## Branches

### Wellington

Chair: Naomi Walker

45 Associate members

80 Voting members

The Wellington Branch kicked off the year with a very brave Ryan Rose from Wellington Water coming to speak to us and answer our questions about goings-on at Wellington Water. Next up we had Nick Stillwell from NZIS to explain what is happening with ASaTS and his role within. To add a little balance to our schedule, the branch held a bowling night, where firms could compete for a chance to win the “Hubcap” also known as ‘The-Interconsultantal-Award-for-Mediocrity-in-Sport’ from defender Lucas Land Surveys. Congratulations for Cuttriss for taking this out.

It was a big year for advocacy within the branch, with the branch voting to put together a case to investigate the excessive price hikes coming out of Wellington Electricity. A big thanks to Colin McElwain for your efforts with this, very much appreciated.

Thanks also to Sarah Duggan and Annette



Wilkinson for their efforts organising events for the Wellington Young Professionals this year. Not only have they hosted 11 monthly drinks sessions for the young survey and spatial members to get to know each other and invited LINZ to speak about Landonline, but they also teamed up with the young engineers, young planners and young landscape architects to organise two WAYD sessions (What are you doing Wellington). These included quick fire presentations from different members each explaining

their sector. On top of this, Sarah Duggan, organised the ‘laws and regs’ study sessions, which were broadcast nationwide, while trying to study for the exam herself.

A very special thanks to all our branch members who volunteered their time to help with this, the Young Professionals are very appreciative of your efforts. Lastly an extra big thanks to all the exec members, for giving up valuable time from your already busy lives to organise these meetings. Arohanui.

*Naomi Walker, Chair*





## Branches

### Nelson/Marlborough

Chair: Steve Neal

13 Associate members

29 Voting members

The first half of my tenure as Chair of the Nelson/Marlborough Branch is nigh. Attending the Leader's Insight, Stakeholders' Workshop and AGM in Wellington last November proved a useful introduction into the Institute and my role.

Four branch meetings have been held over the last year at Slip Inn and Captain's Daughter in Havelock, and Rai Tavern and Foresters Café in Rai Valley. Guest speakers John Hannah presented the Development of the RPSURV Competency Standards and Ross Paton gave us an informative talk with photos, on his 48 years of surveying in

Marlborough and beyond. Nick Stillwell is scheduled for an interactive discussion on ASaTS at our AGM on 20 August.

Marlborough is buoyant, and surveyors' skills are in demand. We are still in a state of post-earthquake recovery, and vineyard development is in full swing again. There is a strong demand for sections and housing, which is being partly satisfied by infill subdivisions and three greenfield developments. Submissions and hearings for the proposed Marlborough Environment Plan continue to put demands on our local members.

Nelson put on brilliant weather for the NZIS Conference 17-19 May. Chris Walker (Chair), Stuart Wallace (Secretary), John Hannah, Jody Postles and Trevor Garnett

formed the hard-working local organising committee. A highlight was the Lord Nelson themed conference dinner and dance with Napoleon (aka Andrew Stirling) winning the best dressed. Having Anne Holmes attend for the presentation of the Holmes Peg to Auckland branch was special. The formation of the Kairūri Community Trust was well received, and the band ensured that dancing continued well into the evening.

Development in Nelson is steady with the new airport build and the continued residential expansion around Richmond. Tasman District and Nelson City Councils' hosted two surveyors meetings with a positive response from both councils to adopting the NZVD2016.

*Steve Neal, Chair*



## Branches

### Westland

Chair: Jan Coll

3 Associate members

6 Voting members

Westland Branch has seven members

– Jan Coll (Chair), Lara Kelly (Treasurer/Secretary), Chris Coll, Lynda Watson, Laura Coll McLaughlin, Murray Marsh and Duncan McDonald, spread from Hokitika to Westport.

We have not had an AGM in the 2018 year however we will do this at a meeting that we are trying to get Nick Stillwell from NZIS to the West Coast (hopefully in the next few months). Lynda Watson attended the NZIS conference in Nelson and Lara Kelly has been advocating at a recent school visit about surveying as a career choice for school leavers.





# Branches

## Canterbury

Chair: Craig Hurford

69 Associate members

114 Voting members

The Canterbury Branch has had another steady year. Once again, residential work is still ticking along, with perhaps more of a focus now being on infill development and commercial type work.

There is now some real action in the CBD, with anchor projects well under construction. The convention centre, Metro Sports and also the Central Library are all under way. There are also areas such as The Terrace being open now which are attracting more people into the city centre.

I would like to thank the executive committee for the work that they have put into the branch exec this year, which has included organising various functions and meetings throughout the year.

Lyndon Endicott-Davies, Shane Dixon and Phil Conway have now stepped down from the executive. I thank them for the input that they have had.

There have been several key branch activities this year:

- Branch meeting held at the Russley Golf Course to garner feedback from the membership on the papers and matters to be discussed at the National AGM. The Canterbury Peg was also presented to Todd Airey at this event.
- Emma Cook and I attended the communications forum and AGM in Wellington where we presented the Canterbury Branch view on a number of topics and issues.
- Branch breakfast meeting sponsored by Glenn Stone Insurance. A well-earned breakfast was had at the Trenches restaurant in the RSA building and an informative talk was given by Glenn Stone.



- Branch meeting at Aurecon. This was followed by a presentation by Simon Yorke from Aurecon in relation to Augmented Reality and Visualisation. Looking forward to another busy year ahead.

*Craig Hurford, Chair*





# Branches

## South Canterbury

Chair: Matthew Kerse  
2 Associate members  
7 Voting members

Heavy workloads for all involved made consistent meetings and attendances challenging. However, we managed 4 throughout the year; 2 branch, 1 general and an AGM. Items discussed include: Review of the Rules for Cadastral Survey 2010, preparation of a submission on behalf of the branch regarding the proposed RPSurv Competency Standards, a general meeting to discuss plans and progression of the branch going forward and a branch AGM. We

will be looking to improve involvement and benefit for our branch members going forward. This will include:

- Holding 'Case-Study' nights
- Incorporating national office CPD webinars into specific branch meetings
- Coordinating with other professional streams in the area (ENZ, NZPI)
- Utilising guest speakers more often.

*Matthew Kerse, Chair*



## Branches

### Coastal Otago

Chair: Kurt Bowen

8 Associate members

31 Voting members

This year has been much the same as last year: a number of branch meetings, some with guest speakers, and several social activities. The branch has been active in providing specialist advice to Dunedin City Council in support of aspects of the proposed District Plan. Branch members have all been busy, whether this is in private practice, education or other areas of surveying and spatial. It is hoped that we can enhance our local CPD programme over the coming year. I would like to offer my thanks to the branch executive committee and the previous branch chair for their support over the year.

*Kurt Bowen, Chair*





## Branches

### Central Otago

Chair: Anthony Field

12 Associate members

34 Voting members

The Central Otago Branch has had another successful year with members and business within the region undertaking many varied and interesting projects. Growth within the region has again been strong, following on from a strong year last year as well. This is reflected by the ever-increasing number of younger members and graduates moving to and starting their professional careers in the Central Otago region.

The branch has held a range of successful meetings and presentations, with strong

attendance at all events. The Christmas function was a particular highlight with members joining together in Arrowtown to sample some yummy French cuisine accompanied by a selection of tasty beverages! Other highlights this year have been presentations by Precision Partners, LINZ, and a very informative presentation by Andy Burrell on UAV technology. As always, the Central Otago Branch is grateful for the support from NZIS HQ, and we are looking forward to another exciting and interesting year ahead.

*Anthony Field, Chair*





## Branches

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### Southland

Chair: Chris Walker

12 Voting members

The Southland Branch has had another quiet year as a branch, though members have generally been experiencing high workloads with a variety of interesting work. The branch supported one of its members to attend the 2017 AGM and Stakeholders Forum in Wellington. It was valuable having a member attend, Ben Wilson reported back some of the matters discussed including the LINZ ASaTS project and the NZIS review of the RPSurv Certification. These topics have continued to be discussed within the branch, with a

submission being made on the proposed changes to the RPSurv Certification. We have a mixture of registered, licensed and graduate surveyors and are interested in how our hard work and experience will be reflected in a revised certification structure. We hosted Rod Hope, Tony Nikkel, and Nick Stillwell as they came south to present and discuss good practice and changes in their respective areas. We appreciated the effort they made to travel and visit our branch and were glad to hear that LINZ have been gaining more staff with valuable surveying experience.

*Chris Walker, Chair*



## Branches

### Hong Kong

Chair: TN Wong  
6 Members

The branch has had a quiet year with a good attendance at the few meetings we have organised.

In December TN and his wife Sue had an opportunity to meet with Judy and Bill Robertson over a dinner in the prestigious Wellington Club.

He pointed out to Bill that the land surveyors' services should be extended to include BIM in civil engineering and building construction. Bill went on to suggest that he should float the idea they had discussed to the NZIS HQ. In relation to BIM, TN has recently given lectures to surveying and engineering groups on BIM, and at those functions has invited those with surveying qualifications to apply for Associate membership of the NZIS. He considers that the branch can assist in approving local applications.

He was invited by Geodetic Engineering Institute, Philippines in June to give a technical session on land surveyors' contribution to the process and management of 3D BIM Modelling in Geodetic Engineering and Construction.

He also spoke in August on the land surveyors' challenges towards the process and management of the 3D BIM Modelling focus on Infrastructure and Construction at the 6th Sabah Surveyors' Congress and AFLAG 2nd Land Governance Summit in Kota Kinabalu, Sabah, Malaysia.

In April the branch also had the privilege to receive our immediate Past President Mark Allan and his gracious wife Maureen to meet the members of the branch on the 20th of April. At a dinner held at the Royal HK Yacht Club, Mark kindly gave the presentation of the NZIS Overseas Membership proposal, and this was discussed earlier in great detail prior to the branch AGM. It was decided that some firm proposals/suggestions will be



sent to NZIS HQ for consideration as soon as possible.

Branch member Dr Merrin Pearse is part of a Citizens Task Force on Land Resources which has over 20 specialists from the surveying, engineering and planning professions working on examples to highlight to the people of HK that we are not short of land for housing – rather we are short of well zoned and planned land use. As land professionals we should be looking at the long-term benefits of good planning ahead of the short term profits provided via construction and developer led projects.



## Branches

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Our branch members working on major civil construction projects in Hong Kong are experiencing a ramp-up in the sensitivity of the effect of the works on adjoining structures requiring heavy geotechnical instrumentation component to ensure movement, tilt and settlement monitoring. We recently noted the tunnelling project that one of our members works on, where the police called at 2am in the morning due to a car-sized slump of road outside an occupied residence, at the location of an active excavation.

Hong Kong has now implemented BIM as mandatory on all Government civil capital works contracts over \$HK30 million in value, providing another spatial workload for

surveyors in the preparation and validation of 3D models and also the UAV & Laser Scanning surveys required for point cloud comparison with the design model.

The current construction boom is now slowing to the downside of the cycle, but with large scale reclamation under consultation as a solution to Hong Kong's housing woes, the next boom may not be far away.

The local survey institute has also been actively rejecting mutual recognition of other professional survey bodies, which is a reminder of the importance to maintain the current high professional standing NZIS has earned, allowing members to provide their expertise globally.

*TN Wong, Chair*





## Professional Stream Reports

### Cadastral

The Cadastral Leadership Team meets by web-conference on the second Thursday of every month. Members of the Leadership Team are:

- Matt Ryder – Cadastral Professional Stream Chair – Taupo
- Richard Hemi – Student Education Liaison – Dunedin
- Darren Hocken – Knowledge Improvement – Christchurch
- Brian Curtis – Cadastral Stream Homepage – Manawatu
- Trent Gulliver – LINZ Stakeholder Management – Wellington
- Karl Wilton – LINZ Stakeholder Management – Wellington
- Toni Hill – National Technical Committee – Auckland

Business and projects worked on during the past 12 months have been wide ranging and include:

- Maintaining the Cadastral Professional Stream LinkedIn webpage
- Several contributions to the *Surveying+Spatial* magazine
- Contributing to the ASaTS working group
- Running a successful seminar on GNSS for Cadastral Surveys
- Contribute to the National Technical Committee
- Submissions on the Rules for Cadastral Survey review
- Submissions on the Environment Court case for a determination if conversion of a crosslease title to fee simple is a subdivision under the RMA.

Looking towards next year, the working groups and consulting with LINZ on the development of ASaTS, the Landonline replacement, will continue to be a key focus along with the review of the Cadastral Rules. The groups are already working at a high



level with LINZ and in the next year we will be working with members to ensure that the Rules are a good fit for both the surveyors using them and LINZ.

As a group we are planning at least one seminar for the upcoming year which

we intend to stream live. Continuing to drive for improvement within LINZ and for changes to the Cadastral Survey Rules are significant goals and challenges ahead, and we ask all members to do what they can to play a role in achieving these.

*Matt Ryder, Chair*



## Professional Stream Reports

### Engineering Surveying

Chair: Michael Cutfield

As expected, the technology in our industry continues to impress. For many now, drones/ UAVs are commonplace among surveyors and 3D scanners are old news. With all this new technology, we are constantly being asked if there is a future for the average surveyor.

Many of us are no longer reducing field notes and applying miscloses, but rather processing gigabytes, or terabytes worth of data-sets, either to be fed into automated processes, or as the product of the latest survey tools. So, indeed the future is bright if we continue to adapt, and this past year has proven this; for example, the Survey School in Otago is experiencing unprecedented demand for their graduates, and Auckland is experiencing a drought of surveyors. This winter has been one of the wettest for many, causing construction on many projects to fall behind, which will put a lot of pressure on this coming dry season to catch up.

Engineering surveyors of Auckland are welcoming the news now that Unitec is taking its first steps to providing its own surveying

degree, hopefully this will ease some of the surveyor drought in the future. This degree has the potential to align with the upcoming revised RPSurv certification to provide a clear pathway for school leavers wishing to pursue a surveying career.

26 May 2017 saw the first one-day seminar run by the Positioning and Measurement and Engineering Surveying streams. This was held at the Novotel, Auckland Airport, allowing simple day access to those travelling from outside the Auckland area. This event saw 130 delegates and speakers, and exhibitions from 7 stands. We had a mix of speakers, ranging from the Diamond Sponsors, to university lecturers, to survey professionals. There was a strong emphasis on survey technology, but there was also some interesting discussion on the survey basics, which are important not to forget. There was also interesting talk about the non-technical side, such as recruitment and insurance. Feedback from the day was resoundingly positive, and we will endeavour to do it all again next year.



*Nightworks at SH16 Lincoln to Westgate project – installation of water main at Royal Road Bridge featured in March Surveying+Spatial magazine.*

The Engineering Stream made the audience aware of the organisational structure of NZIS, and the upcoming developments, especially the anticipated reshaping of the RPSurv.

The Engineering Stream would once again like to thank the exhibitors, the speakers and the Diamond Sponsors for their contribution to make the first event a very successful one – and the Positioning and Measurement Stream has been an excellent partner.

*Michael Cutfield, Chair*





# Professional Stream Reports

## Hydrography

Chair: Emily Tidey

The Hydrography Professional Stream (HPS) currently has 73 registered members (at 14 August 2018). There is a growing awareness that the HPS can provide value to members in an unregulated industry, particularly as the Australian charting market becomes commercialised with fixed certification requirements which are likely to increase certification demands in other aspects of hydrography.

Activities for the HPS this year have included:

- Stream news and feature articles for the NZIS S+S magazine.



- Discussions with the Hydrographic Commission National Committee (HCNC) of the SSSI to have a HPS representative on the Australasian Hydrographic Surveyors Certification Panel (AHSCP) and the HCNC, with reciprocal representation on our HPS.
- In conjunction with National Office and conference organisers, running a very successful “Hydro Day” as part of the NZIS Conference on 17 May 2018.
- Supporting and advertising HYDRO18, the yearly international conference to be hosted by the Australasian Hydrographic Society, in Sydney in Oct/ Nov 2018.
- Supplying comment and feedback on the NZIS draft certification policy.
- Continuing to contribute to the Maritime New Zealand review of the Guidelines of Good Practice for Hydrographic Surveys of NZ Ports and Harbours.
- Working with education providers in NZ on a conversation on the shortage of hydrographic training in New Zealand.



*Hadyn Smith, S+SNZ CEO Welcoming attendees to Hydro Day, at the 2018 Conference (Photo: G Chisholm)*

The HPS leadership team has been holding bimonthly teleconferences and posting the minutes on the NZIS website and to our stream members. The position of Chair changed from Bruce Wallen to Emily Tidey in November 2017. Thank you to Bruce for his great work from HPS inception and thank you to the leadership team who give a lot of their time to our stream.

*Emily Tidey, Chair*





# Professional Stream Reports

## Land Development and Urban Design

2017/2018 has been another busy year for land development. Continued demand in residential property market has seen an increase in high density and terraced housing developments in many areas. This changing nature of subdivision highlights the key importance of good urban design to ensure vibrant, livable neighbourhoods. Our members continue to play an integral role in delivering these quality developments.

The 2018 Conference in Nelson was a great opportunity to tour some of the land development projects that have been completed by members in the area. There were also a number of informative speakers who covered a range of topics regarding current land development trends.

It has been excellent to see the Land Development and Urban Design Stream Committee grow in numbers this year. It now has the following members:

- Julia Glass (Stream Chair & Council Representative)
- Phil Cogswell
- Brett Gawn
- Paul Turner
- Dick Hudson
- Russell Bengé
- David Gibson.

Throughout the year the committee has been involved in the following:

- The review of the content of the Quality Planning Website
- Preparation of a submission on the Draft National Planning Standards, with the assistance of Karin Knedler from National Office
- Contributions to the *Surveying + Spatial* magazine
- Participation on the National Organising Committee for the Nelson Conference and arrangement of guest speakers.



For the upcoming year the committee aims to focus on increased engagement with stream members including more professional development opportunities.

*Julia Glass, Chair*



## Professional Stream Reports

### Positioning and Measurement

Chair: Rachelle Winefield

Since its inception in 2014, the P&M Stream has continued to develop. However, 2017/18 has seen the stream come into its own; the stream's purpose and value to our members and S+SNZ are now established.

The stream committee is made up of five members, from across the country with diverse backgrounds. We meet once a month by teleconference and provide the meeting minutes on our stream webpage.

In late 2018 the stream ran its second biennial membership survey. The major finding of this survey was that we need to find a better way to connect with our members and get more involvement with the branches. The stream has been trialling a few ideas such as increasing our LinkedIn posts, providing a networking event at the

annual conference and partnering with the Engineering Stream to hold an annual seminar.

This year's stream theme has been: *Datums Projections and heights for non-practitioners*. This has tied in well with the decision from the stakeholders' workshop to advise for the uptake of NZVD2016. The stream committee has been involved with the working group for the Hawke's Bay pilot and is working on providing materials for the branches.

However, we may have underestimated the content that such a theme could cover and the real need for easy read documents for the decision makers on job sites. Therefore, this theme will continue through 2018/19 with more focus on projections.

The committee has had a strong interest in a number of NZIS initiatives such as



contributing to the certification review and supporting the annual conference, the Pacific Geospatial and Surveying Council (PGSC) and the upcoming young S+SNZ Volunteering Toolkit Workshop.

Thanks to all the stream membership and look forward to your ongoing contributions.

*Rachelle Winefield, Chair*



# Professional Stream Reports

## Spatial

**Chair: Kat Salm**

The Spatial Professional Stream has 177 members overall of whom 48 uniquely identify with Spatial as their primary stream.

It has been a year of 'teething' as the relatively new Spatial Stream goes from an establishment phase into a development phase. This includes addressing some of the big, but vitally important, issues that need to be resolved for the spatial stream to succeed.

We are continuing to address our Work Plan, and we are working with the NZIS National Office to further develop and implement some of the focus areas.

Key focus areas for the past year have included:

- Working with spatial representatives from the Board, Council and membership to better define the 'spatial value proposition' for NZIS. This has included considerations of the changing nature of the spatial industry, and the services that would provide most value to members involved in this industry, cognisant of the other initiatives and developments happening in other spatial industry groups and organisations.

- Discussions around the RPSurv qualification, its relevance for spatial members and employers, and alternative options for recognising spatial professional competency. This has included considerations of the pathways into the spatial industry, and the diversity and tranches of activities that comprise the industry. Note: As per the agreement with SSSI, we are also supporting GISP-AP certification.
- Ongoing efforts to reach out and raise awareness of NZIS to those in the spatial community.
- A review and prioritisation of activities in the Work Plan for 2016/17.
- Support of events and networking activities including the NZ Spatial Excellence Awards, the NZ Geospatial Research Conference, FIG Working Week in Christchurch, and various branch activities.
- Some developing areas for the year ahead include:
- Completing and implementing the communication strategy for connecting with and providing information to spatial members, and a forum to engage with spatial members.
- Completing a review of possible pathways

into the spatial industry, and pathways to certification.

- Working with spatial business owners to understand how they would recognise value from professional membership, development, and certification of staff.
- Ongoing development of links with NZIS branches through presentations to branch meetings and by bringing in potential new members – this will be happening over time as we gain greater numbers in the regions.
- Further outreach and increasing awareness of the NZIS Spatial Professional Stream, as well as liaison with other spatial organisations to ensure we are supporting and enhancing the industry rather than duplicating effort.

The Spatial Professional Stream Committee includes:

- \* Kathryn Salm (Chair)
- \* Greg Byrom (Council Co-Rep)
- \* Ben Dash (NZIS Regional Branch Exec rep)
- \* Catherine O'Shaughnessy
- \* Shane Turk
- \* Jennifer Ryan
- \* Elaine McAlister
- \* Jasmine Callosa-Tarr.

*Kat Salm, Chair*





## Special Interest Reports

### Young Professionals

For the Young Professionals Group (YPG) the last 12 months has followed a theme of improve on our core roles and look to explore areas where we can add value for our members. This has been an exciting period to see the old moulds broken and new initiatives explored.

A huge thanks must first be given to the following individuals who have represented the YPG part of the Executive Committee:

- Jono Renwick (Secretary)
- Claire Buxton (Education Representative)
- Taryn Martin (General Representative)
- Mariana Pagan (Education/General Representative)
- Emma Cook (Social Media Representative).

Their efforts have allowed the group to continue to be as active and effective as we have been.

Historically, one of our key roles for YPs has been a focus on educational support. Over the last year our group has worked to shape the pathway to becoming a LCS

to be more favorable for the majority of YPs. The most noticeable of these changes has been moving the Cadastral Law Exam (CLE) to the winter months from traditionally being in summer. This was done following consultation with the Young Professionals, NZIS National Office, the CSLB, and the Examinations Panel. We found an overwhelming preference for change. As a result, this has seen an instant rise in the numbers sitting the exam and this will hopefully have a flow-on effect to more people obtaining LCS status.

Another result of membership consultation was the desire for interactive webinars to be utilised where possible. With the assistance of National Office, 7 webinar sessions were broadcast live as well as saved as reference material. This allowed expert “helpers” time to be more effectively used and shared around the country. This was



especially for rural members who couldn't attend sessions in person but were also saved for later reference by everyone. None of the sessions would have been possible without the help of local YP representatives, some of whom were tasked with both organising these study sessions while studying for it themselves. Thank you to you all!

During the last 18 months, it became very apparent that there has been a drop-off in YPs investing in their professional development. This was evident in the low





## Special Interest Reports

attendances from our group to both the Napier and Nelson conferences, and also low applications for the Eighty4 Recruitment sponsorship to the FIG Congress in Istanbul, Turkey. As a result, Claire Buxton and Robert Mears organized and held a workshop at the conference to identify the key benefits for both YPs and their employers in attending professional development opportunities. Participants included conference sponsors, public and private sector leaders and a range of YPs with varied background. The results of the workshop were published in the *Survey+Spatial* June 2018 issue. Moving forward, we are hoping to increase YP participation in events across the board by better communicating the benefits and making the value proposition of these events more appealing to business owners.

The ability to use our skills in volunteering situations was a hot topic at the FIG Working Week in Christchurch back in 2016. Since then, Claire Buxton has grabbed the concept with both hands. The first NZIS Volunteering Workshop will be held in Dunedin in September 2018 and will serve as a pilot for

future workshops throughout the country. The workshop aims to educate attendees on different programmes available, land tenure systems, software and challenges previously encountered. A range of both local and international speakers will attend to share their experience and aim to give attendees the skills to hit the ground running if they get the opportunity to volunteer abroad.

Some of the other roles we have maintained, and where possible enhanced, have been regular articles in the *Survey+Spatial* magazine, guest lecturing at the School of Surveying, social media communication, advocacy within the NZIS



Council and wider NZIS community, and leading the international survey community where we can.

The group has had the luxury of having some extremely dedicated individuals involved who have helped us reach our goals. Branch representatives continue to offer the Executive Committee support and work as key points of contact around the country. We



## Special Interest Reports

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would like to thank all of these members for giving their time and energy to assisting the group.

We would also like to say a special thanks to Taryn Martin for his work on the Executive Committee over a number of years. Taryn is moving on from the committee, and we all admire his passion for the profession, general work ethic and efforts made around advocacy. He will be missed.

The NZIS YPG relies heavily on the whole NZIS membership for collaboration and assistance to achieve our goals to better the future of the profession. We would like to thank everyone who has assisted us over the last year. Without all of you we would not have been able to achieve what we have. If there is anyone reading this who would like to become more involved with the YPG, we strongly encourage you to get in touch and start the conversation. We can't wait to hear from you!

*Rob Mears, Chair*





## Special Interest Reports

### Women in Spatial/Survey

#### Committee members

Elaine McAlister (GeoEd Ltd) – Chair, Charlotte Dawson (LINZ), Dionne Hansen (LINZ), Kathryn Salm (Aurecon, Christchurch), Jan Lawrence (NZIS), Catherine O'Shaughnessy (Eagle Technology Ltd), Tracey Mauchlen (WCC).

#### WIS membership

Membership has increased to **426**, up by **64** members since last year. WIS is actively encouraging men to join the WIS LinkedIn group and attend events, as we feel everyone can benefit from the topics covered and information shared in these events.

#### Events & WIS Survey in 2018

WIS has held four events this year so far, including a lunch at the NZIS conference in Nelson and an Auckland breakfast. The best attended was the mid-winter lightning talk event in Wellington with 70 people registering. It was great to see both genders represented and to hear interesting talks from the WIS group.

### New WIS initiatives in 2018

#### Women in Spatial Survey

This is run biennially, however this year we have redesigned the survey in conjunction with Victoria University, to enable more research into women in the NZ spatial industry and in particular, find out why women are not well represented in senior spatial positions. Results will be released later this year.

#### Women in Spatial membership of NZIS

A question posed in the WIS survey asked the WIS group if they wanted to be a formal member of WIS (NZIS by proxy) and how much they would be prepared to pay for this membership. We will evaluate the results and if favourable, will discuss with NZIS a new WIS membership charging model.

#### Women in Spatial Conference Sponsorship

Congratulations to Rosey Harris –recipient of the inaugural Women in Spatial Conference Sponsorship Award. This is the first time WIS has sponsored a conference attendance. Pending WIS sponsorship we intend to make this an annual event by sponsoring the most



*Rosey Harris –  
first recipient of WIS  
Conference Sponsorship  
Award*

deserving WIS member to attend a conference of their choice.

#### NZSEA Women in Leadership Award

This is the first year the Women's Leadership Award has been included in the NZSEA awards (thanks to the lobbying

of the WIS committee). The award provides an opportunity for women in spatial to be recognised for their work behind the scenes and demonstrate their contribution to the spatial industry whether it be through serving on committees, mentoring or leadership in their field. There have been several entries this year proving the popularity of the category and the justification for its inclusion in the NZSEA awards.

#### Conclusion

Another successful year for WIS, thanks to our sponsors, members and committee.

*Elaine McAlister, Chair*



## Special Interest Reports



### **CSNZ Chair's Report to the New Zealand Institute of Surveyors For the year ended 30 June 2018**

ON BEHALF OF the Management Committee, it is my pleasure to report the activities of CSNZ for the year ending 30 June 2018.

NZIS is now trading as Survey and Spatial New Zealand. However, the name change had not been adopted as at 30 June 2018, so I will continue to refer to NZIS.

#### **Meetings**

The Management Committee meet in September, December, March and June. The minutes from those meetings are available on the website. Paul Newton, Guy Panckhurst and Wendy Sheedy also attended a NZIS Board meeting on 17 October 2017.

The NZIS Board and National Office have encouraged more open communication with CSNZ. Attendance of Board meetings now and again is part of that initiative. As Chair

of the CSNZ, I also have a position on the NZIS Council. The Management Committee is very supportive and will continue to look for opportunities to work with NZIS and National Office to utilise their resources when possible and for the benefit of CSNZ members.

#### **Annual General Meeting**

The AGM is not able to be held at the traditional time in conjunction with the NZIS AGM in Wellington. As was the case last year, the AGM was held to coincide with a branch meeting in an active area. Over 20 Christchurch CSNZ members attended and hosted Guy and Paul this year.

During the AGM there was discussion about options to introduce Young Professional NZIS members to CSNZ as they are our future members. The Management Committee will invite a YP rep to a meeting to explore options.

There was some discussion about options to utilise National Office for secretarial services. The Management Committee has seen the enormous benefit of having our own secretary who identifies with CSNZ and our

specific needs so did not consider that to be in our members' best interests.

Geoff Bates has stepped down from the Management Committee and Guy acknowledged his huge contribution to CSNZ over the years. It was also recorded that Geoff has kindly agreed to continue his close association with our National School of Surveying through lectures to students, and liaising with Christina Hulbe and other staff members. He will provide periodic reports to CSNZ. CSNZ considers the school crucial for supplying quality graduates to the surveying profession.

The executive members elected at the Annual General Meeting on 30 November 2017 in Christchurch were as follows:

#### **Management Committee**

Chairman	Paul Newton of Nelson
Vice Chairman/ Southern Rep	Carl Fox of Christchurch
Northern Representative	Neale Faulkner of Auckland
Central Representative	Mike Stott of Mt Maunganui
Central Representative	Paul Turner of Wellington
Immediate Past Chairman	Guy Panckhurst of Hawke's Bay
Secretary	Wendy Sheedy
Auditor	Grant Thornton



## Special Interest Reports

### Area Representatives

Northland	Denis Thomson
Auckland	Geoff Webster
Waikato/Bay of Plenty	Nick Davies
Gisborne	Kevin Taylor
Hawke's Bay	Guy Panckhurst
Taranaki	Geoff Bland
Manawatu/Wanganui	Kevin Judd
Wellington	Ashley Houghton
Nelson/Marlborough	Terry McGrail
Canterbury	Peter McAuley
South Canterbury	Andrew Rabbidge
Otago Central	Matt Suddaby
Otago Coastal	Geoff Bates
Southland	Don Moir
Westland	Chris Coll

The Surveyor-General, Mark Dyer, also attended and presented an address at the end of the AGM.

### Membership

Membership as at 30 June 2018 stood at 286 full members and 6 retired members, represented by 159 member firms.

### Secretarial

Our new Secretary, Wendy Sheedy, has taken over the role since Liz Blake stood down and made the transition very easy for the Management Committee. On behalf of the

Management Committee, I would like to thank Wendy for the great work she has done for CSNZ this year. Wendy has implemented Xero and online banking which has streamlined the financial aspects of the running of CSNZ. Wendy has quickly become a valuable member of the Management Committee.

### Workshop

The CSNZ annual workshop was held in New Plymouth for the first time ever. It was well attended and received great feedback. Belinda Willis led the local organising team and was well supported by Fiona Lysaght and Erena Patterson. The online registration managed by Conference Innovators also worked very well.

Papers presented and the topics covered were very well received. There was also time set aside in the programme for discussion of topics that were of current concern to members and as always there was plenty of time between sessions and during the social events to talk with like-minded business owners and gain valuable support from our peers.

Liz Blake has kindly offered to continue with collating and analysing the Annual Practice Survey. Liz presented the results at workshop along with some great commentary. We took the opportunity to present Liz with a gift and acknowledged her enormous contribution to CSNZ. The gift was a piece of Nelson pottery art by Katie Gold. Have a look on google to see the art Katie creates.

The next workshop will be held in Wanaka, 21 to 24 March 2019. Neale Faulkner will be the convenor. Fiona has advised us that this will be her last workshop. It is likely that her role will be filled by a conference organiser unless someone knows of another Fiona out there somewhere who would be keen to take on the role.

### NZIS Annual Conference

“Ambitious Diverse Connected” was held in Nelson 17 to 19 May 2018. As Chair of CSNZ I have a position on the National Technical Committee. We oversee the organising of the conference. The other members are stream leaders, Survey School representatives and a local organising convenor.





## Special Interest Reports

Guy Panckhurst put in a lot of effort to prepare papers for the 2017 Napier NZIS Conference, but they were not well attended. With the Nelson Conference only being two months after our workshop we did not have the resources to commit to content specifically aimed at business owners. It also became apparent to me that the programme was very full, providing content for each of the streams.

### Awards and Scholarships

The CSNZ Professional Practice prize was established in 1998. \$200 is awarded annually to the student who attains the highest standard of achievement in the SURV 450 Professional Practice paper. This year the prize went to Joseph Carey.

The 2017 CSNZ Scholarship for the National Diploma in Surveying was very popular this year with 11 applicants. Guy and Paul Turner determined that since some previous winners had dropped out and therefore did not collect the scholarship, that it was appropriate to award more than one scholarship of \$2,000. The scholarships

were therefore awarded Aimee McCaughan, Peter Latu, and jointly to Liam Ireton and David Hayward. The purpose of the award is to encourage completion of the qualification during the period of study.

### ASaTS Cadastral Survey Working Group

Guy Panckhurst represents CSNZ in the ASaTS Cadastral Survey Working Group. Since the change of government, progress has slowed. However, Nick Stillwell has been employed by NZIS to represent the views of all surveyors and has recently been visiting branches to determine what is good and bad about Landonline. CSNZ will continue to take a role to ensure business interests are properly considered during development.

### Manual of Practice

An ongoing project this year includes completely rewriting and reformatting the Business Practice Manual. The bulk of the document is intended to be published by the end of the year.

### Strategic Review

The Management Committee has

commenced reviewing the strategic direction of the Division, which will result in a new formal strategy document. The Management Committee spent a day workshopping the current Strategic Plan with reference to the current draft of the NZIS Strategic Plan to keep our directions aligned. The day was facilitated by Angus Davidson, a colleague of Kevin McCaffrey who facilitated a session for us in 2013. We are continuing to refine the plan as time permits prior to publishing it.

### Website

The Management Committee is not happy with the format of our presence on the NZIS website and considers that our members would be better served with a dedicated website that is linked to and from the NZIS website. We are exploring options to progress this.

### Area Representatives

The Management Committee is supported by 15 Area Representatives across the country, and the Committee appreciates their contributions to the running of the Division.



## Special Interest Reports

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Activity reports from almost all regions indicate workloads are high or very high. A common message I hear is that it is difficult to attract new staff to help cope with the workloads.

Finally, I would like to thank the members of Management Committee who diligently volunteer considerable time out of their working days, during the evening and over weekends throughout the year to represent members' interests and manage the affairs of the Division.

*Paul Newton, CSNZ Chair*



## Special Interest Reports

### University of Otago, School of Surveying

#### Students

A total of 56 BSurv students graduated in the Aug 17/Dec 17/May 18 ceremonies, including 4 First Class Honours and 9 Distinctions. The upcoming graduating class is expected to number about 51.

The 43<sup>rd</sup> Intake into the BSURV included a total of 67 students, 58 of whom were normal admissions, 3 of whom applied with external entry qualifications and 3 of whom are special admissions to the restricted papers only, and 3 of whom were admitted early by the Division of Science. Eight applications were declined. The average grade for students accepted into the BSurv was a B. Six admissions are women. Eleven of the total applications (78) identified their ethnicity as non-New Zealand, and 7 identified as Māori. The largest number of NZ students were from Auckland (13) and the Otago area (17).



Included are 3 students admitted into the third and fourth year of the BSurv.

Three applicants were recommended for the Turnbull Thompson First Year Scholarship. A member of the BSurv 43<sup>rd</sup> intake class was awarded the 2018 Campbell-White Scholarship.

About 90 students are in the SURV101/ SURV102 first year sequence this year, down from last year and near the lower end of the range over the last decade. We sought advice from the University's Schools Liaison Office, who inform us that students are not aware of the profession or what it entails.

The number of students taking up an honours thesis is again very low this year (1). Overall, this is the case due to the larger workload it entails and because students do not see the value in the additional thesis work relative to future employment. When we ask graduates to reflect on what they gained from honours, they emphasise having learnt to frame and conduct a project on their own.

#### Staff

Dr Crystal Filep has joined the School as lecturer in Urban Design. Dr Filep previously led the Dunedin City Council's Urban Design Team and has a background in both urban design and architecture. Her research focuses on human experience and the creation of meaning in urban landscapes and she is an advocate of the Global Street Design Guide, recently adopted by the DCC.

Dr Robert Odolinski has been promoted to Senior Lecturer and confirmed in his role lecturing in geodesy. Dr Odolinski's research in multi-constellation GNSS positioning was recognised with a 2018 Otago Early Career Award for Distinction in Research.

#### Student Recruiting

The School has been involved in a variety of marketing and recruitment efforts this year and continues to maintain a steady minimum intake. However, first year numbers fluctuate and the School, S+SNZ together





## Special Interest Reports

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with its branches and the profession as a whole, must collaborate to sustain visibility of the profession and educational options to maintain and grow these numbers. Effort is also required to grow the numbers undertaking a GIS as a minor and the BAppSc degree course.

The School participates in a variety of regularly scheduled careers events and *ad-hoc* presentations at schools and prospective student visits to Otago. The formal events include the University of Otago tertiary open day held May and postgraduate open day in August. The tertiary open day includes a booth in the common hall (staffed by lecturers and students) and two presentations in the School. The presentations were well attended this year, with approximately 100 students and parents in total. Conversations during the open day focused on career options, the types of firms where graduates might work, and the highly social context of Surveying at Otago. The School of Surveying offers a half-day project

within the 'Hands on at Otago' week-long schools programme in January, and a similar programme within the University's Science Academy programme in January and June.

Other events this year include a combined stall with S+SNZ/Unitec/SoS at the Auckland Careers Expo, a University of Otago Careers Advisor seminar in Wellington, a surveying careers evening in New Plymouth facilitated by the University of Otago Liaison Office, the Nelson Schools surveying careers seminar held during the National Technical Conference, as well as a number of school visits/teaching exercises.

*Professor Christina Hulbe,*  
Dean, School of Surveying



## Special Interest Reports

### Report of Royal Society

The Royal Society of New Zealand (RSNZ) Constituent Members met on 27 June 2018. In his briefing, the outgoing RSNZ President, Richard Bedford, expressed that he would like to see a stronger relationship with the humanities, and for the Constituent Organisations (COs) to have a closer relationship with the RSNZ Branches. As pointed out at earlier CO meetings, and again stressed by Vice-President Richard Blaikie, the COs are important to the RSNZ. The RSNZ branches hold meetings that NZIS members might be interested in attending, and vice versa, and a closer relationship could be beneficial to both groups. This, perhaps, is something NZIS could discuss with its members.

The incoming President, Wendy Larner, outlined three presidential priorities in her strategic plan for the RSNZ:

- Mātauranga Māori, and the importance of incorporating Māori knowledge systems in the RSNZ;

- Equity and diversity and the importance of widening the diversity of the RSNZ fellowship to match the diversity of the research community, and ensuring that the wider research community reflects the diversity in the wider community;
- Early and mid-career researchers and how the issues they face today differ from those of earlier generations.

Widening the Fellowship of the RSNZ is a matter that NZIS might consider – it may be, for example, appropriate to nominate researchers at the Otago University Surveying Department for Fellowships of the RSNZ. As pointed out in my 2016 report, Constituent Organisations can suggest suitable people for Fellowship nomination, as well as for RSNZ medals and awards. This, perhaps, is something for the NZIS Council to consider. The RSNZ has offered assistance with application processes if required.

A draft proposal for a revised Council and Academy Executive Committee (AEC) structure was outlined by the RSNZ Chief

Executive, Andrew Cleland. Six domains were identified for membership of the AEC, including the group: technology, applied science, and engineering. This group includes NZIS, and there may be scope here for NZIS to extend its relationship with the RSNZ.

In an update on the Expert Advice programme run by the RSNZ, it was noted that there is a new project on *Artificial Intelligence and Emerging Technologies* now under way in collaboration with Australia. There may be potential interest here for NZIS as this project develops. On the matter of Expert Advice, the provision of Expert Advice by the RSNZ is undertaken in collaboration with the Prime Minister's Chief Science Advisor (PMCSA), and also the Expert Advice and Practice Committee of the RSNZ. Provision of expert advice may be something for NZIS to be involved with. Where advice is needed, for example by RSNZ Branches speaking out on issues of relevance to surveying, NZIS could contribute with expert knowledge and opinion.



## Special Interest Reports

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### **Update on Digitisation of Old Survey Records**

The *Report for Constituent Organisations*  
*RSNZ Meeting Friday 8 December – Update*  
*on Digitisation of Old Survey Records* is  
available on [www.surveyspatialnz.org](http://www.surveyspatialnz.org)

[Link to report: [https://  
www.surveyspatialnz.org/  
Attachment?Action=Download&Attachment\\_  
id=5330](https://www.surveyspatialnz.org/Attachment?Action=Download&Attachment_id=5330)]

*Bruce McFadgen*, Representative





## Special Interest Reports

### Advanced Survey and Title Service (ASaTS)



The business case for the programme of work to replace Landonline, (ASaTS) is expected to go to ministers for consideration late in 2018 so this is an excellent time to take a step back and look at how survey and spatial have been (and will continue to be) represented as the programme unfolds.

Survey and Spatial NZ are formally represented at three levels:

- At the governance level, the ASaTS Stakeholder Forum provides an opportunity for our President (Rebecca Strang) to engage with LINZ's senior management about the high-level direction of the programme.
- The ASaTS Survey Working Group is a representative group of senior survey and spatial professionals who engage with LINZ on the progress of the programme and the direction it is heading.
- The ASaTS Consulting Surveyor is a

full-time role to engage with survey and spatial professionals, to work with the ASaTS Survey Working Group, and to ensure the voice of our sector is considered in the design of ASaTS as it proceeds.

The Stakeholder Forum and the Survey Working Group are regularly updated on progress and have both met in Wellington once this year, supplemented by updates and teleconferencing from LINZ. The frequency of these meetings will increase as the programme moves through the business case phase into the design and implementation phases.

Hopefully, many of you will have had a chance to meet the ASaTS Consulting Surveyor (Nick Stillwell), our full-time representative on ASaTS, as he has travelled around the branches, and attended the national conference in Nelson. He has gathered several hundred feedback items from our members which will form the basis of the key opportunities we will advocate for implementing, and the key issues we will advocate for being addressed as a sector.

It is really important that as a sector we pull together a clear picture of how we want the cadastral survey system to work so that we can articulate a clear direction we want things to head in.



*Nick Stillwell, Lead ASATS Project*



## Special Interest Reports

### XXVI FIG Congress

**6 to 11 May 2018, Istanbul, Turkey**

**Theme – *Embracing our Smart World where the Continents Connect: Enhancing the Geospatial Maturity of Societies***

The FIG Conference was well attended with over 2300 participants including a record number of Member Associations from around the world.

The New Zealand Delegation was well represented with 13 delegates including representatives from NZIS, LINZ, Otago University, our Young Professionals, Trimble and the private sector. Our delegation included Brian Coutts Chair of Commission 1 (Professional Standards and Practice) and Simon Ironside Chair of Commission 4 (Hydrography) Working Group 4.1 – Standards and Guidelines for Hydrography.

This was an amazing opportunity to network with our international peers and to showcase the expertise and experience of New Zealand surveyors, our use of technology and our significant experience with land administration systems.

I had the pleasure of attending the Young Surveyors Network (YSN) Workshop *'Invest in Yourself'* where I was given the opportunity to engage with the future leaders of our profession. I commend Melissa Harrington and Claire Buxton for their work with our emerging professionals.

As Head of Delegation I attended:

- The Pacific Geospatial and Surveying Council (PGSC) *'Capacity Development'* Special Forum
- The FIG Member Association Forum
- The Forum of Regional Bodies
- International Land Management Standards (ILMS) Forum
- Presidents' Forum – Attended by 88 presidents and Heads of Delegation representing 57 countries and 66 organisations.

There were many common themes in these forums:

- Automation of Land Administration Systems
- Impact of Technology / Smart Cities / GIS / BIM
- Climate Change / Sea Level Rise

- Training / Resources / Certification
- Mutual Recognition / Reciprocity
- Ageing Workforce
- Capacity Building.

New Zealand has the opportunity to show strong leadership in New Zealand and in the South Pacific. FIG provides the opportunity for New Zealand surveying and spatial professionals to contribute their expertise and experience on a global scale to resolve challenges for our industry and for the people who depend on our services.

NZIS nominated Brian Coutts for President of FIG. Brian has considerable experience in leadership and governance and the position was strongly contested. Brian was unsuccessful in his bid for the presidency, however NZIS was pleased to have the opportunity to support Brian to represent our interest in the Asia Pacific. We wish to record our thanks to Brian for accepting our nomination.

Thank you for the opportunity to attend as Head of Delegation and thank you to the New Zealand delegates who represented us so well.

Mark Allan, Head of Delegation ►



## Special Interest Reports

### Commission 1

As the four-year cycle of FIG concludes at the end of this year, Commission 1 looks to carry over some topics of an ongoing nature. There have been four Working Groups (WGs) in operation over the last four years. WG 1 (Ethics), chaired by Gary Strong of the UK, will continue and should complete its project on involvement with the International Ethics Standards Coalition (IESC) by proposing an amendment to update the current FIG statement on ethics. This should have happened at the 2018 Istanbul FIG Congress, but technical issues caused delays. FIG Member Associations are encouraged to adopt the updated ethics statement produced by the IECS. WG 2, chaired by Don Grant of Australia/New Zealand, will produce a publication that supplements FIG publication No 59 International Boundaries by the end of 2018. A third publication related to moveable international boundaries will continue the series, produced jointly with Commission 7. WG 3, co-chaired by Robyn McCutcheon of Australia, and Winnie Shiu



*Left: The Advisory Committee of Commission Officers (ACCO – Commission Chairs and Chairs-elect) with the President of FIG Chryssy Potsiou (in red) and Vice President Diane Dumashie, Chair of ACCO.*

*Right: Mark Allan, Brian Coutts and Simon Ironside, members of the NZIS delegation at the FIG Foundation Dinner at the FIG Congress in Istanbul, May 2018.*

*(Photos sourced from the FIG website, <https://www.flickr.com/photos/132951677@N02/> and <https://www.flickr.com/photos/132951677@N02/page2>)*

of Hong Kong SAR, China, will carry over the topic of Women in Surveying into the next quadrennium. WG 4, chaired by Kate Fairlie of UK/Australia has proposed to move its topic, Mutual Recognition, to the Regional development network, which has accepted the challenge.

Winnie Shiu of Hong Kong SAR, China, currently Vice Chair Administration and Communication of Commission 1 and Co-Chair of Women in Surveying, will replace Brian Coutts as Commission Chair.



**CASLE (Commonwealth Association of Surveying and Land Economy)**  
CASLE will celebrate 50 years (along with the Commonwealth Associations of Planners, the Commonwealth Association of Architects and the Commonwealth Engineers Council) in 2019. Its celebratory will be kicked off with a function at Marlborough House in September 2018, the home of the Commonwealth Secretariat. NZIS was the first body to sign up to CASLE in 1969 when it was formed in response to a request from the Commonwealth Heads of Government Meeting (CHOGM). CASLE remains active, particularly in Africa and the Caribbean.

While a founding member, currently NZIS has no direct representation to CASLE, although Dr Brian Coutts, past president of both CASLE and NZIS, remains an adjunct to the Management Board as Adviser (Land Surveying).

*Brian Coutts, Commission 1 Chair*

### Commission 4

**The mission of Commission 4 is to:**

- Promote the aims and objectives of FIG to hydrographers through the active





## Special Interest Reports

involvement of national delegates from member associations and other interested parties in the activities of the commission.

- Foster closer links with all sister organisations currently active within the global hydrographic community.
- Develop guidelines and standards that will assist hydrographers in the provision of their services.
- Disseminate information relevant to the profession through participation in international meetings, conferences and committees.

The 2015-18 Commission 4 work programme was undertaken through Working Groups whose final reports were presented at the FIG Congress held in Istanbul in May 2018. The term of the Commission 4 Chair, Angela Etuonovbe of Nigeria, also ended in Istanbul and the post is currently vacant.

### **Working Group 4.1 Standards and Guidelines for Hydrography** (Chair: Simon Ironside, NZ)

#### **Objectives**

- Assist in the development of standards

of competency for hydrographic surveyors

- Assist in the development and review of technical standards and guidelines
- Promote the need for, and benefits of, professional hydrographic surveyor certification
- Cooperate with FIG Commissions, sister organisations and other appropriate bodies.

### **Working Group 4.2 Maritime and Marine Spatial Information Management** (Chair: Dr. Jonathan Li, Canada)

#### **Objectives**

- Assist in the development and promotion of marine and coastal spatial information
- Cooperate with FIG Commissions, sister organisations and other appropriate bodies.

### **Working Group 4.3 The Blue Economy** (Chair: Gordon Johnston, UK)

#### **Objectives**

- Developing and promoting sustainable management of our seas and oceans
- Cooperate with FIG Commissions, sister

organisations and other appropriate bodies (IHO, UN-FAO, World Bank, NGOs).

The 2019-2022 work programme is currently being finalised, but it has been decided that WG 4.2 will disband and the work of WG's 4.1 and 4.3 will continue. An exciting collaboration between Commission 4 and the Young Surveyors Network has led to the formation of a new Working Group *Mapping the Plastic* (Chair Simon Ironside, NZ) committed to finding solutions to the problem of plastic pollution in our oceans. It will cooperate with, and participate in international programmes where appropriate but will focus primarily on a comprehensive investigation of plastic pollution at source. Major river systems are known contributors to the problem and a pilot project is being set up in Vietnam, host of the 2019 Working Week, to quantify the extent of plastic waste flowing into the South China Sea at the outfalls of the Mekong and Red Rivers. The intention is to extend the Vietnam pilot to other major river systems identified as significant plastic waste contributors.

*Simon Ironside, Commission 4 Delegate*



## Special Interest Reports

### **Cadastral Surveyors Licensing Board (CSLB) 2018**

The Board has recently been working through licence renewals to 30 June 2018. Numbers are slightly up on 2017, and we anticipate 679 surveyors being licensed this year. The renewal period had its challenges this year as our service provider (ENZ) has had both technical database issues and a resourcing shortage which affected our processing in a timely manner.

Changes that will occur with our service provider has meant that the Board is currently exploring other options. We will be aiming to have our own database for the holding of the Register of Licensed Cadastral Surveyors as required under the Act, which will in the future allow for online registrations

and payment directly through our CSLB website. We will be endeavouring to have a new system up and running before renewals at the end of 30 June 2019. At the same time the website will also be updated to provide more practical information for both surveyors and members of the public on the functions of the Board.

The number of Section 7(1)(d) significant failure complaints from the Surveyor-General has been relatively consistent throughout the year, and represents about 2% of surveyors lodging datasets. We are seeing a slight increase in repeat significant failures which is a concern to the Board. The significant failures and subsequent corrective active actions are generally being found by later surveys, staff investigations and field audits.

An area of practice where the Board does see further issues arising is where multiple parties are involved in the submission of one dataset. By this we mean one surveyor carrying out the fieldwork, another the calculations, data entry into Landonline and then the LCS signing. For an LCS to sign that a dataset is correct requires robust verification checks from fieldwork to signing.

The Board has received a few complaints from the public, none of which have been accepted as professional misconduct. It did not renew the licence for one LCS in 2017 because of professional practice issues, and it has received one case of alleged professional misconduct from the Surveyor-General in 2018.

*Vicki Nalder, Chair*

