



Survey and Spatial New Zealand (S+SNZ) Engineering Surveying and Positioning & Measurement Professional Streams are holding a one-day workshop in Auckland on Friday, 16 April 2021. This annual event is a joint stream initiative providing an opportunity for technical development and networking.

The workshop will commence at 9am and officially end at 5pm, giving attendees living outside of Auckland the opportunity to fly in, attend the workshop and fly out on the same day. An open forum and informal networking will continue from 5:00pm – 6:30pm. **The purpose of this event is to showcase projects and/or use of technology, in order to share learnings and inspire innovation with our peers.** Members and non-members are invited. If you're not a member, join us now and save.

This event is suitable for Land Surveyor, Cadastral Surveyor, Civil Engineer, Design Engineer, Engineering Surveyor, Geodetic Surveyor, Survey Technicians, and related professionals.

Location: Ellerslie Event Centre, Auckland

S+SNZ Diamond Partners:



16 / 04

FRI

S+SNZ Engineering and Positioning Workshop 2021
MC: Michael Cutfield & Sam Hackett

Time	Session	Learning Summary
08:00am	NETWORKING	
09:00am 15 min Intro	Opening of Seminar Presenter: Michael Cutfield Positioning and Measurement and Engineering Surveying	Our stream reps will open the seminar for the day.
WORKSHOP 1 09:15am 30 min Workshop	Surveyors and Industrial Metrology <i>From Millimetres to Microns</i> Presenter: Steve Bowden Licensed Cadastral Surveyor Cheal Consultants Steve is a Licensed Cadastral Surveyor and RPSurv working with Cheal Consultants Limited since 2005 and based in Taupo. Since 2010 he has been a team leader for the 3D terrestrial scanning services and in recent years precision measurement services largely servicing the Energy sector.	The accurate positioning of machinery in industrial facilities is paramount for a processing plant to run efficiently. Today's industrial machinery run at high tolerances and require frequent quality checks. Traditionally the demand for metrology professionals is met from overseas providers. The pandemic is making this difficult. NZ Surveyors are avid measurement experts and quality professionals. This is clearly a role we can play to service this niche industry. This presentation will introduce the viewers to the equipment, methods, customer demand, examples, and some of the hurdles you may encounter to achieve a submillimetre alignment of machinery or digitally capture a mechanical part with a handheld scanner to reverse engineer with a 3D printer.
	09:45am 15 min Presentation	Your Industry is Unique and Your Cover Should be too <i>GSI Insurance Partners</i> Presenter: Glenn Stone Managing Director GSI Insurance Partners
WORKSHOP 2 10:00am 30 min Workshop	NZTM for Construction - A Cautionary Tale <i>A power station construction project in the BOP that was started on NZTM and the problems that it caused, and how it could have been done better.</i> Presenter: Luke Nelson - BSURV (class of 2007), LCS, Surveyor Terrasurv A rural upbringing cemented Luke's love of land and a Bachelor of Surveying was obtained. He has worked in a range of consultancy roles and with a local authority which has provided a broad range of experience and the basis to become a Licensed Cadastral Surveyor.	A refresh on basic coordinate theory and better awareness of the implications of coordinate system choice for a project and a surveyors professional responsibility to protect engineers/project managers from their ignorance when it comes to the choice in said coordinate system.
	10:30am	Synergy Positioning presentation Presenter: Greg Cassidy
10:35am	MORNING TEA Supported by Synergy Positioning	
WORKSHOP 3 11:15am 60 min Presentation	The Autonomous Survey <i>Robotics in Action</i> Join David Ings, CEO at Roccos, and Haydn Bradford, Reality Capture & Construction Specialist at Global Survey, as they discuss the practical application of robotics in surveying.	This presentation will cover: <ul style="list-style-type: none">Where the global trend and future of robotics is heading and how this is going to impact youThe benefits of automating physical processes in surveying and scanningReal-world NZ and international examples of autonomous surveyingA demonstration of Spot, the robotic dog from Boston DynamicsQ&A session to discuss how this impressive technology is changing the shape of the industry
	12:15pm	AllTerra presentation
12:30pm	LUNCH Sponsored by AllTerra	
SPONSOR 01:30pm 15min Presentation	A few good words <i>Eighty4 Recruitment</i> Presenter: Mark Fisher Managing Director Eighty4 Recruitment	We love to empower people to have awesome careers by matching them with life-changing opportunities. Yes, it sounds a bit rah-rah-rah, but hey, we're enthusiastic people and we love what we do! Not to brag but our Auckland-based office works with the best clients in New Zealand in the Engineering, Surveying, Transport, Planning, Construction and Design sectors
	WORKSHOP 4 01:45pm 30 min presentation	1. Extreme Surveying - Resections from the Edge 2. Scanning the Deepest Diaphragm Wall in NZ History Presenters: Les Whalley Survey Manager Simon Poulton Engineering Surveyor Fax McKernan Statutory Mining Surveyor Simon Poulton graduated in 2005 at the Otago University Survey School and has had a variety of survey project roles in Australia including desert pipeline construction, coalmine construction and support. Fax McKernan has over 13 years tunnelling and mining experience.
WORKSHOP 5 02:15pm 30 min workshop		Mapping shallow water and shorelines in support of engineering projects <i>How combining hydrographic and topographic technology can create seamless data sets</i> Presenter: Declan Stubbing Operations Manager Discovery Marine Limited (DML Surveys) Declan oversees survey operations and business development for DML. He has extensive technical experience in delivering complex surveys and enjoys finding innovative solutions for clients. His knowledge of system capabilities is extensive and ensures he stays abreast of technology innovations that present new solutions for clients. Declan graduated from Otago University with a Bachelor of Surveying (BSurv) and has specialised in Hydrographic surveying. Declan is a qualified mariner, holding an Inshore Launch Master (ILM) certificate and is a passionate member of the S+SNZ Hydrographic Professional Stream.
	SPONSOR 02:45pm 15 min Presentation	The Global Survey Difference <i>Global Survey</i> Presenter: Bryan Claridge Survey Sales Consultant
03:00pm		AFTERNOON TEA
W6 WORKSHOP 03:45pm 45 min Presentation	S+SNZ Certification Project <i>Where is it at</i> Presenters: Ashley Church Chief Executive Michael Cutfield Technical Expert	The Certification project will provide a recognised professional pathway for members at all levels by developing and implementing a Certification Framework and Program with clear eligibility criteria, a public register, mandatory CPD, supported by a robust renewal process and quality management system (QMS). Ashley Church, will report to members on the certification framework and program and will answer any questions from delegates.
	04:30pm 15 min Closing	Closing of Seminar Michael Cutfield
04:45pm	NETWORKING FUNCTION	