



# FIG YSN CONFERENCE

2016

CHRISTCHURCH  
NEW ZEALAND



## Hello - Welcome - Haere mai

friends and colleagues!!! Welcome to the 3rd FIG Young Surveyors Conference in Christchurch, New Zealand. This year's conference is all about the FIG Working Week Theme 'Recovery from Disaster'. We invited innovative Young Surveying Professionals to tell their stories, share their experiences and invite you to take part on the way of recovery. Our profession is imperative in all phases of Disaster Risk Management. We are playing a vital part in that! It is our ideas, knowledge and passion for our profession, for land and for new technologies which is mostly needed. With this conference we want to give a fresh and positive outlook on the challenges we are facing.

Join us during this 1 day Conference and tell us your ideas, take part developing ideas further and be active in spreading this message to your friends and colleagues.

**'Alone We Can Do so Little, TOGETHER We Can Do so Much'** - Helen Keller

**Eva-Maria Unger**, Austria

**Paula Dijkstra**, The Netherlands

**Melissa O'Brien**, New Zealand

chair FIG Young Surveyors Network

vice-chair of Administration FIG Young Surveyors Network

NZIS Young Professionals

## Key Facts

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### :: Venue

Rydges Latimer Hotel, 30 Latimer Square  
8011 Christchurch, New Zealand  
+64 3 379 6760

<http://www.rydges.com/accommodation/new-zealand/latimer-christchurch/welcome/>

:: **Registration** 30 April 2016; 08.30 am - 09.00 am, Rydges Latimer Hotel

:: **Opening 3rd FIG YSC** 30 April 2016; 09.00 am, Rydges Latimer Hotel

:: **Young Surveyors Dinner** 30 April 2016; 06.30 pm, Rydges Latimer Hotel

:: **YS Exploring NZ** 1 May 2016; 09.00 am Rydges Latimer Hotel

:: **FIG YSN Charity walk/run** 1 May 2016; 05.00 pm, Hagleys Park





## 9:00 - 10:30 Opening Ceremony

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We are welcoming our dear friends and colleagues to the 3rd FIG Young Surveyors Network Conference in Christchurch, New Zealand. Let's make this an inspiring and more important fruitful event to contribute to the 'Recovery from Disaster', the FIG WW 2016 theme.

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|--|---|
| :: <b>Mark Allan</b> , New Zealand         | President New Zealand Institute of Surveyors (NZIS) |
| :: <b>Chryssy Potsiou</b> , Greece         | FIG - International Federation of Surveyors         |
| :: <b>John Hohol</b> , USA                 | FIG Foundation                                      |
| :: <b>Eva-Maria Unger</b> , Austria        | FIG Young Surveyors Network                         |
| :: <b>Paula Dijkstra</b> , The Netherlands | FIG Young Surveyors Network                         |
| :: <b>Melissa O'Brien</b> , New Zealand    | FIG Young Surveyors Network                         |



## **11:00 - 12:00 #1 Rescue Life and Work in the Disaster Zone**

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**Chair: Claire Buxton** (New Zealand)

**Rapporteur: Franka Grubišić** (Croatia)

Young Surveyors share their experiences from the day the disaster hit. We want to set the scene with 3 short TedTalks/fire presentations.

The session puts a focus on the immediate response after a significant natural disaster. You will hear personal accounts from young professionals involved in the rescue.

Whether it was monitoring buildings, assessing large scale damage to infrastructure, or making decisions at a higher level, those affected had their own personal issues to cope with. A series of short TedTalks/fire presentations will be given. Learnings will be taken from other people's experience of working in a high-pressure and, at times chaotic, environments.

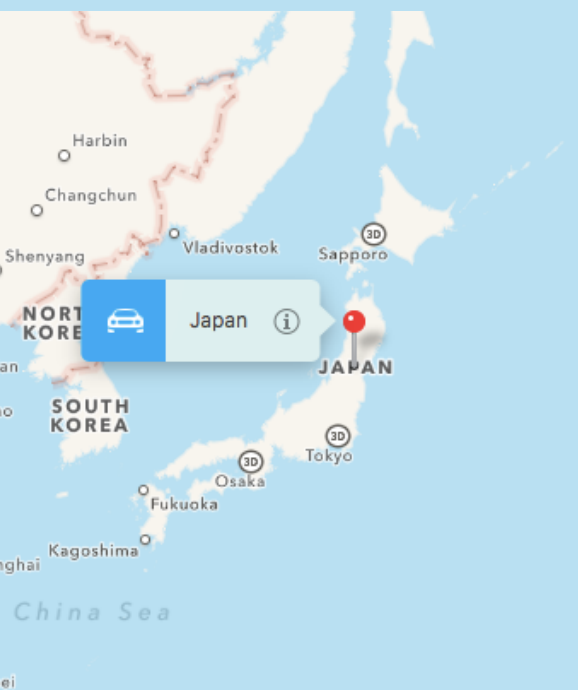


## On Shaky Ground

Mark Myall and Nick Saunders, New Zealand

40.9006° S, 174.8860° E

An earthquake occurred in Christchurch on 22 February 2011 at 12:51 p.m. local time (23:51 21 February UTC) and registered 6.3 on the Richter scale. The earthquake struck the Canterbury Region in New Zealand's South Island and was centered 2 km west of Lyttelton, and 10 km south-east of the centre of Christchurch, at the time New Zealand's second-most populous city.



## Knowing tasks for a disaster

Kazuaki Fuji, Japan

36.2048° N, 138.2529° E

The 2011 earthquake off the Pacific coast of Tōhoku was a magnitude 9.0 (Mw) undersea earthquake off the coast of Japan that occurred at 14:46 JST on Friday 11 March 2011, with the epicenter approximately 70 kilometers east of the Oshika Peninsula of Tōhoku and the hypocenter at an underwater depth of approximately 30 km. It was the most powerful earthquake ever recorded to have hit Japan, and the fourth most powerful earthquake in the world since modern record-keeping began in 1900.

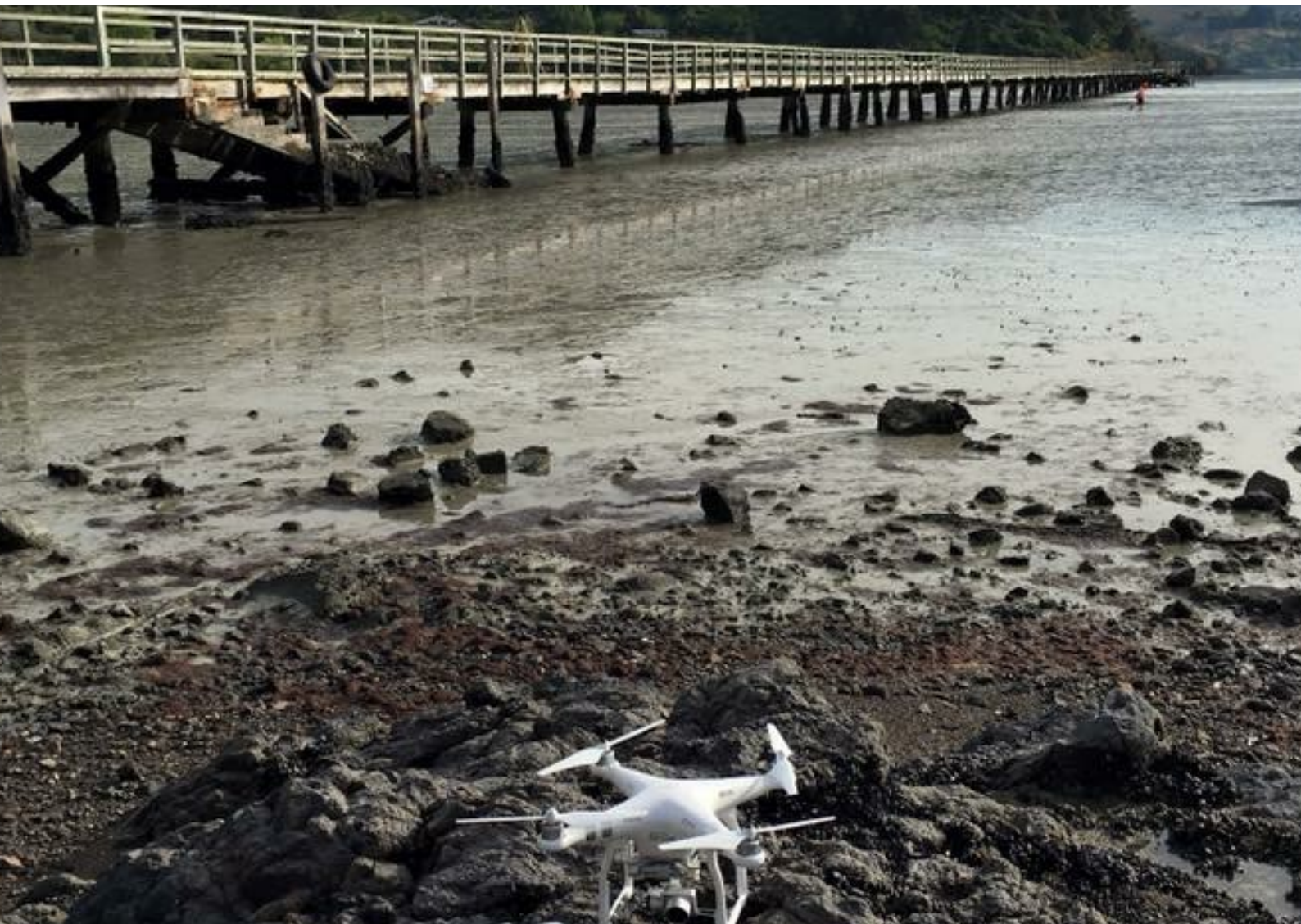


## Rescue after Cyclone Winston

Chethna Ben, Fiji

17.7134° S, 178.0650° E

Severe Tropical Cyclone Winston was the strongest tropical cyclone to make landfall in Fiji and the South Pacific Basin in recorded history. The system was first noted as a tropical disturbance on 7 February 2016, when it was located to the north-west of Port Vila, Vanuatu. The cyclone reached its peak intensity on 20 February, with ten-minute sustained winds of 230 km/h (145 mph) and a pressure of 915 hPa (mbar; 27.03 inHg), shortly before making landfall on Viti Levu, Fiji.



## **12:00 - 13:00    #2 Rescue Action in the Disaster Zone**

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**Chair: Melissa O'Brien** (New Zealand)

**Rapporteur: Annette Hadler** (Germany)

Have you ever wondered what is needed most in the aftermath of a disaster when thousands of people can suddenly find themselves battling to save lives and livelihoods. Information!

Before aid agencies can help them, the first requirement is information. Which areas have yet to be reached? Where are the relief resources? Where are the people in greatest need?

MapAction delivers this vital information in mapped form, from data gathered at the disaster scene. Get to know from first hand what is needed and how you as an individual, how we as a network and how we as young professionals can get involved and are needed.



**14:00 - 16:00    #3 Rescue**  
**Thriving in Uncertain Times**

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**Chair: Liam Jagvick** (New Zealand)

**Rapporteur: Tuomas Jylha** (Finland)

Once the dust has settled, the rebuild from the aftermath begins. This interactive session looks to explore the types of technology and how it can be used after a significant natural disaster.

The importance of technology and new innovation will be highlighted in this session. Young Surveyors will present new technology and ideas.

First you will hear their presentations and then we will separate in groups to work together on their development and application. In this session it's not about what is already out there - it's about what is needed, how we can release it and how we can accelerate it.



## Hashtags for relief, rescue and recovery

How social media hashtags can be used for post disaster information management?

**Shuman Baral, Nepal**

This tool 'Hashtags for relief, rescue and recovery' was first introduced in Kathmandu, Nepal after the devastating earthquake. Shuman together with his colleagues are working on the advancement and application of this tool.

# #relief

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## FIG YSN OSM Mapping activities

How can you contribute even if you're far away?

**Franka Grubišić, Croatia**

This tool 'FIG YSN OSM Mapping activities' was first introduced at the FIG WW 2015 in Sofia, Bulgaria. During the 1h session of the Working Week we all together mapped and tried to help our colleagues in Nepal from the distance. The tool is an easy way to be active and using this tool through the Networks platform guarantees a greater outreach in our profession.



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## Technology and Disaster Recovery

How can technology helps to recover from disaster?

**Mark Nichols, New Zealand**

Trimble is working on the forefront of this tool 'Technology and Disaster Recovery'. During and especially after the devastating earthquake in Christchurch various up to date technological solutions have been used and further developed.



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## Recovery Activities 2011-2016

Tohoku Earthquake and Tsunami

**Kengo Okada, Japan**

Ripro has and continues to support the recovery efforts from the catastrophic Tohoku earthquake and tsunami. The tool will highlight the disaster areas and discuss the recovery efforts involved, 2011-2016.





**16:30 - 17:30 #4 Recovery**  
**The Art of Recovery**

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**Chair: Mark Myall** (New Zealand)

**Rapporteur: Kelvin Tang** (Malaysia)

After years of unsteadiness, the opportunity that comes with a natural disaster is realised.

This session puts focus on the long term learnings and changes that will come about to prepare communities for future disasters. A series of presentations will give young surveyors a fresh and positive outlook on the new environment we live in.



## Rapid rebound

Applying the learnings of the Canterbury earthquakes to the geodetic system

### Nic Donnelly, New Zealand

How are geodetic systems influenced by such natural disasters? What is needed for a geodetic system to be able to react to changes on the surface as well as in the underground?

Nic will answer our questions regarding the geodetic system in New Zealand and how it could adapt to the circumstances after the 2011 earthquake. But he also wants to hear your questions!



## The Earthquake Generation

### Maureen Allan, New Zealand

Are we the earthquake generation? What is driving us? What is our contribution and how are such events influencing us - as professionals and as individuals.

Maureen will give us an insight on how she sees the earthquake generation and she is keen to hear your input.



## Getting Better / Acting, Learning, Sharing

### Nyncke Emmens, The Netherlands

Nyncke will explore with us the use of the addresses and buildings databases, the use of databases of topographical information by the police or as an information source when a disaster occurs. Also the role of spatial planning/land consolidation as an instrument to create safer living environments and use for relocate purposes.

## 17:30 - 18:00 Closing Ceremony Haere Ra

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**Chair: Eva-Maria Unger** (Austria)

**Rapporteur: Paula Dijkstra** (The Netherlands)

Within this Closing Ceremony we are summing up the conference, define the lessons learned and decide on future activities. Further upcoming events and possibilities for Young Surveyors/Young Professionals will be presented.

But more important this Closing Ceremony shall be used by the participants of the 3rd FIG Young Surveyors Conference to reflect on the conference, the Network activities as well as their own contribution as individuals.

Also we will take this opportunity to thank our hosts and the awesome team of Young Surveyors from New Zealand.

Cheerio!





## KIWI LANGUAGE TERMS

**Eh** – compulsory addition to the end of a rhetorical question... "Last night was bloody good, eh"

**Sweet as** – great, as in "sweet as pie"

**"ie"** – often found at the end of shortened words, e.g. pressie (present), hottie (hot person)

**Heaps** - used instead of "lots"... "We saw heaps of dolphins in Kaikoura."

**Bro** – friend or brother

**Togs** – swimsuit

**Jandals** – flip-flops

**Sunnies** – sunglasses

**Wop-wops** – out in the back country (middle of nowhere)

**Tiki Tour** – to drive around casually taking the scenic route

## MAORI LANGUAGE TERMS

**Kia Ora** (key-or-a) – hello, goodbye, thank you.

**Haere Mai** (high-reh-my) – welcome

**Haere Ra** (high-reh-rah) – goodbye

**Whanau** (far-no) – family

**Whare** – house

**Ai** – Yes

**Kau** – No

**Kia ora tatou** — Hello everyone

**Tena koe** — Greetings to you (said to one person)

**Tena koutou** — Greeting to you all

**Kei te pehea koe?** — How's it going?

**Kei te pai** — Good



and Kia Ora!!!

We would like to say **Thank you and Kia Ora** to our **Platinum Sponsor Trimble, Silver Sponsor Ripro, the FIG Foundation and the FIG Office**. Without the great support and sponsorship of these we could not arrange such a conference and address so many Young Surveyors/Young Professionals.

:: **Platinum Sponsor**



:: **Silver Sponsor**



# XXV FIG CONGRESS 2014



## FIG Foundation

The FIG Foundation, an independent body under the International Federation of Surveyors (FIG), was established for the purpose of raising funds to finance educational and capacity building projects and scholarships with the goal of helping to build a sustainable future. One of our seven initiatives in our goal is "To support by seed funding conferences, meetings of young surveyors and similar events".

The FIG Foundation has supported the FIG Young Surveyors Network for over 10 years, ever since being established as an FIG Commission 1 Working Group in 2006. The Foundation has enthusiastically supported meetings and conferences of young surveyors on six continents. We hope that our support of this important conference will help identify the young surveyors who will become our future leaders.

The FIG Foundation wishes you all a successful gathering in Christchurch and I look forward to meeting each of you.

**John Hohol**  
President FIG Foundation



...TBC