



**New Zealand Statistical Association
Operations Research Society of New Zealand**

Joint NZSA + ORSNZ Conference

**23–26 November 2014
Victoria University of Wellington, New Zealand**



Image from

<http://architecturenow.co.nz/articles/victoria-university-of-wellington-campus-hub-and-library/>

Conference Welcome

Welcome to this joint conference of the New Zealand Statistical Association (NZSA) and the Operations Research Society of New Zealand (ORSNZ). The two societies hope to continue with joint conferences, following the success of last year's joint venture in Hamilton. The School of Mathematics, Statistics and Operations Research at Victoria University of Wellington is the host and a sponsor for 2014. We all hope you enjoy the next few days of interesting talks, meeting people and exploring the city.

There are several outstanding plenary speakers lined up:

- Geoff McLachlan, University of Queensland
- Chid Apte, IBM Thomas J. Watson Research Center, New York
- Peter Green, University of Technology, Sydney and University of Bristol
- Miguel Anjos, Trottier Energy Institute, Polytechnique Montreal
- Alan Brookhart, University of North Carolina

The conference programme covers a wide range of topics in Statistics and Operations Research. Also there are special sessions on: Applications of hierarchical Bayesian modelling to small domain estimation problems in Demography and Public Health, Bayesian methodology, Capture-recapture / multiple systems methods for population estimation, and Statistics Education (now almost a regular event). We also have the NZ Analytics Forum on Monday afternoon (principally sponsored by IBM, but also by the Faculty of Engineering, University of Auckland) and a SAS Workshop on Tuesday morning.

We are very grateful for the generous support received from our conference sponsors: SAS (our platinum sponsor), AgResearch, Derceto, the Department of Biostatistics and Epidemiology (AUT University), the Department of Engineering Science (University of Auckland), Harmonic Analytics, Orbit Systems, Statistics New Zealand, and Victoria University of Wellington.

A highlight of the conference is the NZSA best student presentation prize (sponsored by Harmonic Analytics) and the ORSNZ Young Practitioners' Prize (sponsored by Derceto).

It is an interesting challenge to 'make' a conference. There's the early stage of "it's still a long way off", to booking the rooms "but they can't start work on the new biological sciences building next door to where we've booked the conference, can they?", to building the conference website "Andrew please help, Mark's broken it", to hoping there will be a few registrations, to constructing the conference programme (using R&R, i.e. Richard and R), to running down the corridor to fix the jammed photocopier. We hope you notice none of these things though, and can just enjoy the final conference.

Hopefully all the information you need is in this booklet or on the conference website:

<https://secure.orsnz.org.nz/conf48/>

If you have any questions, please ask – at least one of the people below should be able to help.

John Haywood (Conference Chair) – with huge thanks to everyone below.

Organising Committee

John Haywood (Chair; Victoria University of Wellington – VUW), Richard Arnold, Mark Johnston, Ivy Liu (all VUW), Andrew Mason (Past-President, ORSNZ), Shirley Pledger and Ginny Whatarau (both VUW). Further administrative support at VUW from Jill Purvis and Emily Simons.

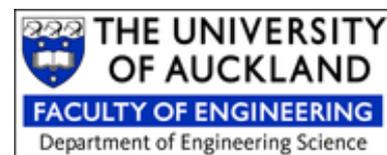
Advisory Group: James Curran (President, NZSA), Harold Henderson (AgResearch), Golbon Zakeri (President, ORSNZ).

Sponsors

We gratefully acknowledge the support of our platinum sponsor, SAS.



We are also very grateful for the generous support from:



Conference Venues

- **Welcome Reception and Conference Registration, Sunday 23 Nov, 5:30–7:00pm**
The reception on Sunday night will be held at the *Rydges Wellington Hotel*, 75 Featherston Street, Wellington (marked “B” on the map on the map below). This is very near the Railway station and is approximately a 20–25 minute walk from the University (following the blue path marked on the map below).
- **Conference sessions** from Monday to Wednesday will be held in the Maclaurin (MC) lecture theatres and the Cotton building on the *Kelburn Campus of Victoria University of Wellington*, Kelburn Parade, Wellington (marked “A” on the map below).
- **Conference Dinner, Tuesday 25 Nov, 6:30pm**
The conference dinner will be held at *Rydges Wellington Hotel*, 75 Featherston Street, Wellington (marked “B” on the map below). Pre-dinner drinks from 6.30pm, dinner from 7.00pm.



Conference Programme Overview

Monday 24 Nov		Tuesday 25 Nov	Wednesday 26 Nov
08:45 <i>Welcome and Conference Opening</i>			
09:00 Plenary 1		09:00 Plenary 3	09:00 5 talks (3 parallel sessions)
10:00 Morning Tea		10:00 Morning Tea	10:40 Morning Tea
10:20 5 talks (4 parallel sessions)		10:20 5 talks/SAS workshop (4 parallel sessions)	11:00 Plenary 5 <i>Conference Closing</i>
12:00 Lunch		12:00 Lunch	12:05 Lunch
12:50 5 talks (4 parallel sessions)		12:50 4 talks (4 parallel sessions)	13:00 <i>Stats Education Workshop</i>
14:30 Afternoon Tea		14:10 Plenary 4	14:40 Afternoon Tea
15:00 Plenary 2 (Analytics)		15:10 Afternoon Tea	15:00 <i>Stats Education Workshop</i>
16:05 4 talks (3 parallel sessions)	Analytics Forum	15:30 5 talks (4 parallel sessions)	
17:25 Poster Session/Drinks		17:15 NZSA AGM ORSNZ AGM	
18:30 Young Statisticians and Operations Researchers Evening		18:30 Pre-dinner Drinks and Conference Dinner	

- **Registration** will open at 8:00am on Monday 24 Nov in the Maclaurin (MC) foyer. The formal **Welcome and Conference Opening** will begin at 8.45am in MC LT103.
- All **lunches** and **tea breaks** will be served in the **Maclaurin foyer**.
- **NZ Analytics Forum Event sponsored by IBM, Monday 24 Nov, from 3:00pm in MC LT103**
Plenary Address by Dr Chid Apte (IBM, USA), followed by “Smart Cities” Panel Discussion and drinks.
- **Poster Session and drinks (cash bar), Monday 24 November, 5.25-6.30pm**
Posters will be displayed in the Maclaurin foyer.
- **Young Statisticians and Operations Researchers Evening, Monday 24 Nov, 6.30-10.00pm**
The event will be held in the Alan MacDiarmid building, room 102.
- **Separate NZSA and ORSNZ Annual General Meetings in MC LT103 and MC LT101, Tuesday 25 Nov, 5.15-6.00pm.**
- **Statistical Education workshop, 1.00-4.40pm, Wednesday 26 November in MC LT103.**

General Information

Internet Access

There is wireless internet coverage across most of the campus.

- The **free wifi** for guests is called “Victoria_Guest”. You will be asked to enter your email address and agree to the terms and conditions. Wireless access will terminate after one hour, after which you will have to re-login to resume using the service.
- It is also possible to use “Eduroam” and login using your login at your home university, e.g., username@auckland.ac.nz (note this is username **not email address**).
- There are several pay services including “cafeNET” and “cityfi_now” which are available around the campus and the Wellington CBD. You will need a credit card to pay for these services.

Toilet Facilities

- Toilets are located between the Maclaurin building and the Hub and also at the end of the corridor past Cotton 119.

Car Parking

- Due to building work, car park availability is extremely limited. There will be orange traffic cones in a small number of car parks (probably five) that have been reserved for delegates of this conference. These parks are downhill from Gate 7, just before Te Puni, and there will be signs on the cones referring to the conference. No other permits are required, but you must email Ginny.Whatarau@vuw.ac.nz if you wish to use one of the car parks on any day(s) of the conference and pass on your car details. Otherwise your car may be towed away.

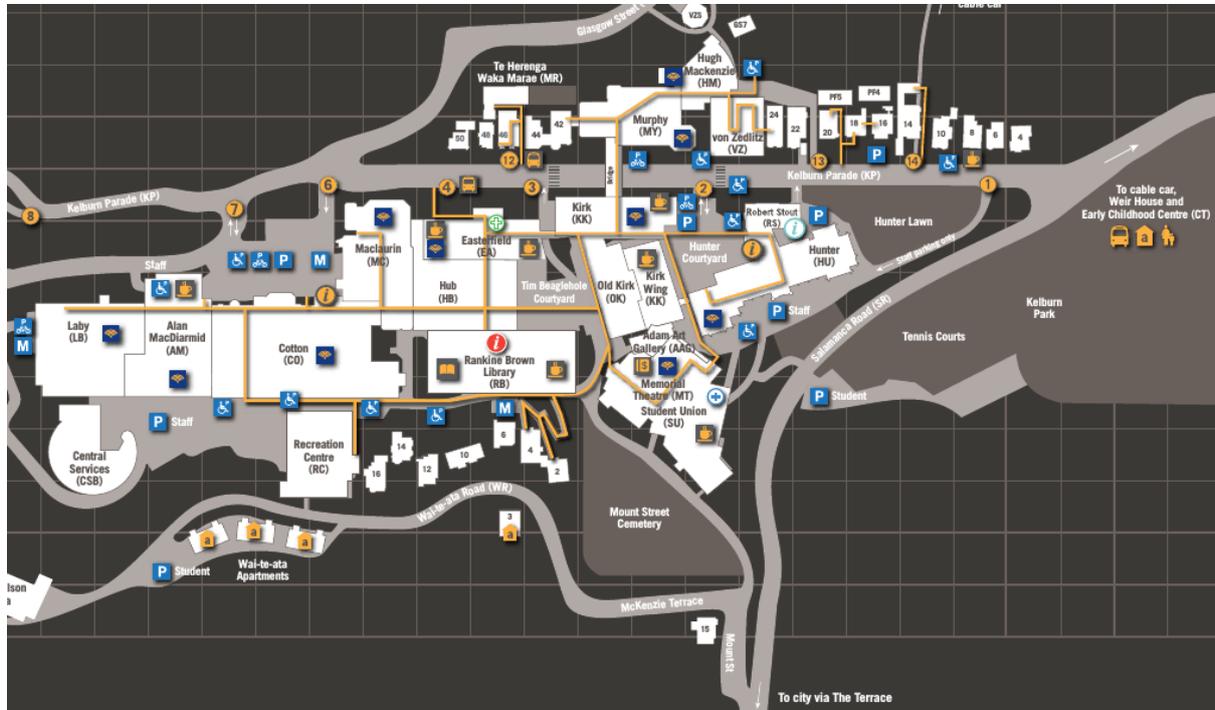
Other Locations of Interest on Campus

- There is an ANZ Bank branch on campus in the student union building.
- Next to the ANZ Bank is the Adam Art Gallery (<http://www.adamartgallery.org.nz/>) which currently has an exhibition on the personal effects of Kim Dotcom.
- There is a pharmacy in the Easterfield building.

Maps

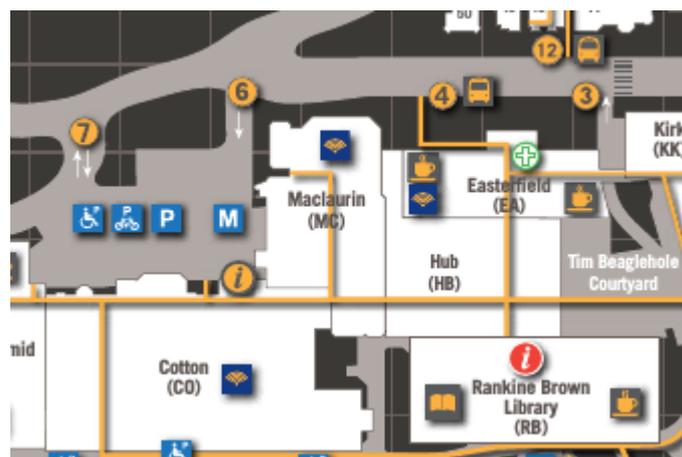
How to find the Kelburn campus

The Kelburn campus of Victoria University of Wellington is on Kelburn Parade, Wellington.



How to find the Maclaurin lecture theatres

The Maclaurin lecture theatres are between gate 6 (there is a roundabout at the top of Kelburn Parade) and the bus stop further down the hill. It is the red brick building between the gate 6 carpark and the new Hub building.



How to find each of the rooms for the parallel streams

There will be signs pointing you to the correct places. We are using rooms MC101, MC102 and MC103 in the Maclaurin building and rooms CO119 and CO246 (only for the SAS session on Tuesday) in the adjacent Cotton building. These rooms are all very close together.

Prizes

Harmonic Analytics — NZSA Best Student Presentation

The NZSA encourages presentations from students at its annual conferences, and as an enticement, prizes are awarded for the best student presentations. All student delegates that present are automatically entered into the competition. Harmonic Analytics are proudly sponsoring prizes for the best student talks again at the 2014 conference.



Derceto — ORSNZ Young Practitioners' Prize (YPP)

OR practitioners and students who will be under 30 years of age on the first day of the conference (24 November) are invited to compete for \$1000 of prizes in the Derceto ORSNZ Young Practitioners' Prize competition. The 2014 YPP prize is proudly sponsored by Derceto.

