



➤ **March 2018**

Tēnā koutou

MSL is delighted to launch our new and improved website. I hope it makes it easier to find information about our services and provides a useful resource for metrology in New Zealand. We are gearing up for the redefinition of the International System of Units (the SI) in 2019 and encourage you to come to our World Metrology Day event on Tuesday 22nd May to find out more about these exciting developments. I'm also happy to introduce the next generation of metrologists with the appointment of three new permanent staff members and our latest cohort of summer students from Victoria University.

Ngā mihi
Fleur Francois
Director, MSL



New Look MSL Website

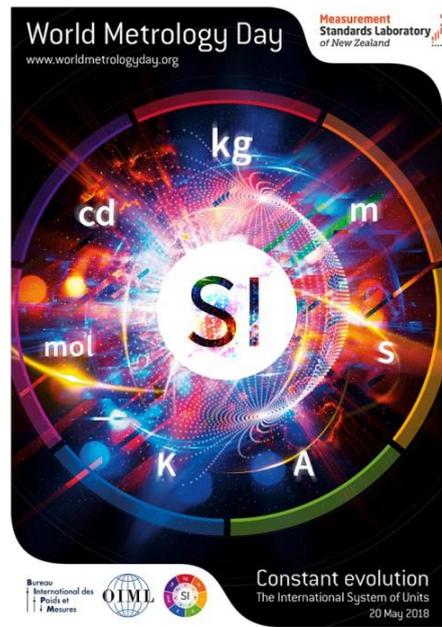
Following on from our new branding in 2017 we now present the new look MSL website. A key strategic goal for MSL is to be more outward-focused and accessible, and to increase the understanding of our role as New Zealand's National Metrology Institute. The new site has been designed in a way to make navigation easier, is visually appealing with more graphics and showcases the applications of metrology.

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World Metrology Day 2018

Our annual celebration for World Metrology Day is on Tuesday 22 May, hosted alongside the Metrology Society of Australasia (MSA). This full day event is being held at our labs in Lower Hutt and is not to be missed. We have a programme full of inspirational and informative talks, including presentations about the new ISO17025 standard, preparing for an IANZ assessment, MSL's development of the Kibble Balance and the SI redefinition.

As always, this provides an opportunity to meet MSL scientists, learn what's in store for your business with the new ISO17025 and the SI redefinition and understand how MSL and MSA are supporting NZ's measurement infrastructure. Click below for a full programme and registration.



[Find out more](#)



Training 2018

With the launch of our new website, MSL training courses have also had a refresh and we now have an online registration and payment platform. We are pleased to offer a new course this year in the form of Reliable Relevant Electrical Measurement. Support your staff development and improve efficiencies in your lab. Check out our new Training course pages and register early to receive the early bird discount.

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Daniel McLean

Cheng Yang

Farzana Masouleh

New MSL Staff

Three new staff joined MSL in January and February this year. Get to know Daniel, Cheng and Farzana as we put them under the spotlight.

When did you start at Callaghan Innovation?

Daniel - January 23rd

Cheng and Farzana – February 5th

What does your role cover?

Daniel - Length measurement of all sorts

Cheng - Research Technician, providing support to Electrical, Time and Frequency Standards

Farzana - I am joining the team that looks after the humidity standards as a scientist.

Where did you come from to join the MSL?

Daniel - Control System Engineer, Bermuda

Cheng - Calibration Technician, at Airways NZ, in Wellington

Farzana - Originally from Iran, more recently from pursuing my second PhD at Victoria University of Wellington.

What do you like doing when you're not at work?

Daniel - Family time and then playing sport

Cheng - Trail walking/running, Amateur Radios

Farzana - Gym, eat, sleep, rewind...

Click below to find out more in their staff profiles.

 [Find out more](#)

Encouraging the next generation of metrologists



MSL in partnership with Victoria University provided research internships to five engineering and science students (Hamish Gibb, Ikram Singh, Dharmick Mehta, Luke Porteous, and Fergus Robinson) over the summer. In their various roles they have developed their skills, have built experience in the excitement and challenges of scientific working life and have accelerated progress of critical MSL projects. Their work has enabled the commissioning of new equipment, fault finding and resolution in existing equipment, upgrading of software systems to improve resilience and efficiency and collection of data to progress research work. If you know students that might be interested in paid internship opportunities with MSL, please encourage them to visit our careers page.

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The science behind products that sparkle and shine

Check out our latest [blog on the Callaghan Innovation](#) website that talks about MSL's collaboration with other national metrology institutes and industry to better define the appearance of luxury products.

It has been repeatedly shown that for 'luxury' products like cosmetics or automotive paint, appearance has a significant impact on consumer choice. Appearance is also important at the quality control level, because it can often flag issues with the reliability of production techniques to manufacturers. Many industries rely on characterisation and quality control carried out 'by eye', making it highly subjective. With manufacturers of special-effect pigments producing ever-more sophisticated compounds, there is a need for measurement standards.



\$18.5 Bn

Global automotive paint market in 2016



\$ 68.3 Bn

Global colour make-up market in 2016

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