



Brush



Strokes

FRONTIERS IN COATINGS

REGISTRATION BROCHURE INSIDE

Road Safety Marking Paints

Check inside for articles discussing
Skid Resistance, Marking Types, and the
2018 Convention Registration Brochure.

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FRONTIERS IN COATINGS

29TH - 31ST AUGUST | CHATEAU TONGARIRO

Brushstrokes is the official publication of the Surface Coatings Association of New Zealand. The aims are to report news and technical papers of interest and relevance to the Surface Coatings Industry in New Zealand, as well as advise of events both nationally and internationally.

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BRUSHSTROKES EDITORIAL

by Tom Hackney

As we have included the AGM in the scope of this issue, I can now write the Editorial under the title of President, a position I did not think I would be in again. I would like to take the opportunity of saying that I feel very privileged and proud to be President of SCANZ one more time as I did not say it very clearly, in my acceptance speech.

I left a few things out really, outlining the time when I was President in 2007/9 when the Association was in a grave position financially, most of us are well aware of the reasons for this, and the industry came to the rescue and has supported the Conference as it always does. The point I was trying very poorly to make was that it is the conferences which provide the revenue opportunities for the Association to keep providing the benefits for our members and we have to be very careful to ensure we have enough reserve funds without incurring the wrath of the IRD.

Another, was to emphasise that I have been on the Committee for longer than

I care to remember and have enjoyed almost every minute. It has been fun and challenging at times but rewarding also, and I can say that the decision to appoint Donna Vincent of Workz4U as Treasurer, Secretary and General Dogsbody some years ago now was, in my opinion, the best decision the Association has ever made. She has almost taken the 'challenging' out of committee work and all we need now is to provide the Committee with some additional new blood and new ideas.

I will strive to continue the good work David has done in his tenure and fully support the Committee in its philosophy and excellent work keeping up with a changing industry and also coping with an increased workload as seems to be the norm.

You will all be aware that Viv and I are leaving for a five month stay in England until October as part of our life-style change and during that time David will continue to guide the Association and I will report on OCCA at Surfex 2018 (May) in Coventry, FATIPEC (June) in

Amsterdam and the Centenary of OCCA (September) in Leeds.

The theme of this issue is Road Safety Marking Paints and should also be read with the February 2017 Issue Thermoplastic Technology. We have two papers for you, one on general safety markings from Ennis-Flint and one on abrasion resistance by Alistair Harlow of the Road Markers Federation. Peter will no doubt source some early references in this industry and, as mentioned, we have details of the AGM held April 26th at the Horse and Trap.

Again, on behalf of the Committee as a whole, Workz4U and the Brush Strokes Team, we trust you will all enjoy reading this April Issue. Please keep the ideas and information coming in. Peter and David will assist Donna in the two magazines I shall miss and I will be back for the October issue hopefully with a number of new ideas.

Tom Hackney
President



PAINTED MEMORIES

Compiled by Peter Walters



A selection of historical paint references.

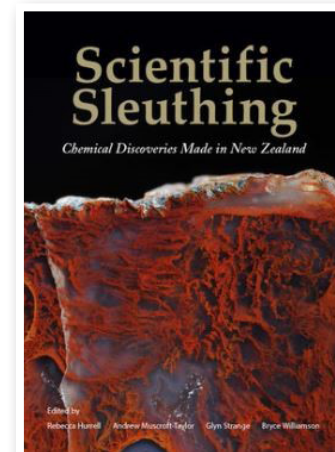
Where Angels Fear to Tread: The Saga of a Remarkable and Challenging Technology

In 2010 Serena Smalley, a Product Development Chemist at Dulux, took on the task, as a Member of the New Zealand Institute of Chemistry, to contribute a chapter in the proposed sequel to The New Zealand Institute of Chemistry's publication "New Zealand is Different".

To assist in that task she invited myself, as the former Technical Manager of Wattyl, Tom Slinn, as a retired Technical Manager of BALM Paints (renamed Dulux in 1975), and Colin Gooch, as the Technical Director of Resene, to contribute portions of that chapter, drawing on their knowledge and experience of the history of the coatings industry in New Zealand.

The chapter contributed by Serena was entitled "Where Angels Fear to Tread: The Saga of a Remarkable and Challenging Technology". This chapter highlighted the New Zealand Paint Industries pioneering role in the development and adoption of water borne coatings technology.

The New Zealand Institute of Chemistry sequel to "New Zealand is different", "Scientific Sleuthing - Chemical discoveries made in New Zealand", was finally published in 2017.



The section of the chapter that I contributed outlined the history of the adoption of Waterborne Road Marking Paints in New Zealand.

Though not developed in New Zealand, the concept of waterborne road marking paints was welcomed by our Road Marking Industry where paint is still the most common form of marking applied to the roads in New Zealand. Unfortunately our environment and road marking practices made the formulation of such coatings challenging.

In 1985 Rohm & Haas introduced their first waterborne resin specifically formulated for traffic paint. The poor drying conditions prevalent when road marking paints are usually applied meant it enjoyed limited commercial success.



By subsequently developing and patenting a resin which remained emulsified only when there were high levels of ammonia present, Rohm & Haas struck on a means by which a practicable waterborne road marking paint could be formulated. The release of ammonia from the applied coating ensured the paint rapidly became non-tracking, so appeared to the end user to be dry. The water in the paint film then evaporated as conditions allowed, so hardening the film and ensuring good wear resistance.



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Bayferrox iron oxides, Colortherm green pigments, Levanyl and Levanox pigment preparations, Bayfast and Bayplast Organic pigments, Macrolux organic dyes and Preventol biocides



RT Vanderbilt mineral fillers and additives



Nobel NC industrial nitrocellulose



Stepan surfactants and enviro-friendly solvents

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