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CHRISTCHURCH | 8–9 October 2026

Location: Majestic on Durham, Christchurch

• **Hear practical technical content you can take back to your organisation.** Learn from specialists working across asset management, coatings, cathodic protection, concrete, water, steel and materials, pipeline and asset integrity, emerging technologies and industry practice.

• Professor **David Williams** from the University of Auckland will present: “Unlocking secrets of corrosion science. New instruments, both simple and complex. New ways of thinking.”

• **Mark Sigley**, Corrosion Engineer at Firstgas Ltd, will deliver the Brian Martin Memorial Lecture #2, presenting: “Assessing CP Levels”

* **Connect with the industry at our Cocktail Dinner**

Our Expo runs alongside the technical program, bringing corrosion, coatings and asset-protection companies together under one roof. See products and technologies, speak directly with technical specialists, discuss current projects and find solutions that could assist with the management and protection of your assets.

Your Full Registration includes the Industry Cocktail Dinner on Thursday 8 October, held amongst the exhibitor displays at Majestic on Durham. It's an opportunity to continue conversations from the day in a relaxed setting and connect with presenters, exhibitors, asset owners and industry professionals from across New Zealand and Australia.

AUCKLAND | 14–15 October 2026

Location: AUT Auckland

The Auckland program brings together technical presentations and industry experience covering the challenges facing those responsible for the durability, maintenance and protection of assets throughout NZ.

Whether you work with infrastructure, utilities, marine assets, facilities, structures, pipelines, coatings or corrosion management, the program provides an opportunity to hear how others are approaching real-world issues.

Go beyond the conference room with our Auckland Site Tour

A key feature of the Auckland program is our industry site tour on **Tuesday 13 October**, giving attendees the opportunity to see corrosion and asset-management considerations in practice. The tour will include locations around Auckland and a visit to MetSpray in Drury, providing a valuable practical component alongside the technical program.

The Auckland Expo provides direct access to suppliers, manufacturers and technical specialists working across corrosion prevention, coatings and asset protection.

Full Registration also includes our Industry Social, giving attendees another opportunity to meet and network with speakers, exhibitors and others working across the sector.

The full agenda and registration is available here:
<https://corrosion-prevention2026.eventsairsite.com/>

ACANZ would like to gratefully acknowledge this month's sponsor...

Turn technical uncertainty into evidence-based decisions



We bridge the gap between your good idea and its successful implementation, using our proven technical skills.

Contact us now to start making a positive difference to your bottom line.



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99TH AEC MEETING TO BE HELD AS PART OF THE ACA SYMPOSIUM IN CHRISTCHURCH

The 99th Australian Electrolysis Committee (AEC) Meeting will be held on Friday, 9th October 2026, as part of the ACA Symposium in Christchurch, NZ.

Time: 11:15 AM to 12:45 PM

Venue: Majestic on Durham, Christchurch, NZ (www.majesticondurham.nz)

Please note that this session will be conducted face-to-face only, and there will be no hybrid or online attendance option available.

The full program is provided below.

1. 11:15: Opening – Bruce Ackland & Grant Chamberlain.
2. 11:25: Alan O'Connor: DC Traction Interference in

the Hutt Valley.

3. 11:40: NZEC Group: Rodney Urban, Urban Electromagnetics: AC Electrical Hazard Study(ies).
4. 11:55: Grant Chamberlain: AS 2832.2 and Buried Tanks - Issues and Discussion
5. 12:10: Bruce Ackland: AS 2832 Parts 1 and 5 Draft Revision.
6. 12:25: Discussion:
 - 100th Meeting of the AEC in 2027, and coincidentally:
 - 100 Years of the Victorian Electrolysis committee in 2027.
7. 12:35: CP Technical Group AGM.

Bruce Ackland – Chairman of AEC
Alireza Koukhan – Secretary of AEC



VALE: ROB FREEDMAN

Big Rob', who died at his home on 9th August aged 75, was known to many ACANZ members who were fortunate to have had him as their instructor for CIP1 & 2 coating inspector training classes. Rob was a passionate supporter and Life Member of the ACA whose service included;

- ACA President 1992/93
- Founding Chair of the ACA Foundation in 1998
- Board member of the Corrosion Prevention Centre in 1998
- CIP3 Peer Examiner from 2023
- Newcastle Branch Rep on the Operations Committee for 13 years including being its Chairman in 1999 and also the ACA Education Director who initiated the adoption of NACE training courses
- Made Life Member at C&P08 in Wellington in 2008
- CIP Instructor from 2001 teaching over 200 courses world-wide

Rob is survived by his wife Glenda (who attended many C&P Partners programs), two sons and four grandchildren.

More photos of Rob and tributes to him can be seen at [VALE Rob "Big Rob" Freedman - The Australasian Corrosion Association Ltd](#)

Submitted by Willie Mandeno

Q & A CORNER



Older ACA NZ members have probably seen a number of situations that may never have made it to a textbook.

If you have a question you'd like clarification on, email it to the Editor at lesboultonrust@gmail.com. We'll pose it to our panel of experts who will answer it in another Bulletin, so everyone can improve their knowledge.

Q: How do we fight coastal corrosion?

& A:

Salt air can wreak havoc with coastal infrastructure that lacks the necessary corrosion resistance, proving costly for the asset owners, or the engineering and construction companies that built them. Salt air does not negotiate – corrosion will occur!

Fighting coastal corrosion requires a defence strategy targeting material selection, barrier protection, good design, and maintenance, to counteract corrosive airborne chloride ions and high humidity.

Here are some protection strategies that should be considered by asset owners.

1. Material Selection

- **Alloy upgrades:** carbon steel can corrode rapidly near the coast and basic stainless steels (like grade 304) are prone to pitting corrosion. Upgrading to marine-grade alloys such as grade 316 or 2205 duplex stainless steel improves the pitting corrosion resistance.
- **Non-ferrous alloys:** use seawater resistant alloy options like bronze, titanium, or marine grade aluminium alloys, where loading or structural design demands them.

2. Protective Coatings

- **Barrier systems:** apply high-performance coating systems, including zinc-rich epoxy primers paired with durable polyurethane or fluoropolymer topcoats.
- **Passivation:** chemically treat stainless steel surfaces, to remove any iron contaminants and produce a thicker chromium oxide passive layer.

- **Galvanising:** utilise hot-dip galvanizing for structural carbon steels to provide a sacrificial zinc barrier that stops base steel corrosion attack.

3. Design and Fabrication

- **Eliminate crevices:** avoid tight gaps, lap joints, and unsealed crevices where salts and moisture can concentrate and trigger crevice corrosion.
- **Prevent galvanic couples:** isolate dissimilar metals, such as stainless steel fasteners in contact with aluminium, using dielectric gaskets, nylon washers, or insulating sleeves.
- **Promote drainage:** design structures with smooth runoff paths to ensure rainwater and condensation drain off freely, rather than pooling on horizontal surfaces.

4. Maintenance

- **Freshwater rinsing:** regularly wash down metallic fixtures exposed to sea air with fresh water to remove accumulated debris and salt deposits, before localised corrosion can initiate.
- **Coating inspections:** routinely inspect painted or coated surfaces for minor corrosion damage, scratches, or blistering, and touch the area up to prevent under-film corrosion.



Metal connections and fasteners are susceptible to corrosion in salt air



2026 ACAF Scholarships awarded

Three of the fifteen ACA Foundation scholarships for 2026 have been awarded to ACANZ members.

The Ray Osborne Memorial Scholarship* sponsored by Universal Corrosion Coatings Pty Ltd, to assist a Young Corrosion Group member attend an ACA event or training course was won by **Declan Cruickshank**, an engineer and coatings inspector from Christchurch (who is also the YCG coordinator on the ACANZ Branch Committee).

An ACA Training Course scholarship, sponsored by Carboline NZ, was won by **Aaron Lines**, a corrosion consultant and manager with Lumen Ltd.

The Metspray (NZ) 2013 Ltd sponsored ACA Conference attendance or Training Award was won by **Rem Markland**, a senior engineering technician with WSP from Greymouth.

** The late Ray Osborne was an ACA Life Member and Gold Medallist. He was involved in organising four ACA conferences - in 1976, 1984 (as Conference Convenor), 1990 and 2000. He spent three periods as Secretary of the New Zealand Branch, from 1973 to 1976 (when he then became President for two years), in 1983-4 and 1989-1993. He was Australasian President 1984-5 and was heavily involved in the production of the film 'The Corrosion Problem'. Then, when Ray retired from his senior engineering post in Telecom in 1995, he became Executive Officer of the NZ Branch, from 1995 to 2001.*



Submitted by Willie Mandeno, ACAF Director

AMPP Coating Inspector Programme - Auckland, Level 1

19 – 24 October 2026

<https://lnkd.in/gAgiqvYi>

The course is an intensive presentation of the fundamental technology of coating application and inspection. It provides both the technical and practical fundamentals for coating inspection work on structural steel projects. This is the world's most recognised and specified coating inspection certification program.

Although specifically designed for Coating Inspector Trainees, this program benefits anyone interested in gaining a better understanding of coatings and inspection including Project Managers, Engineers, Maintenance and Quality Assurance/Control Personnel, Contractors and Specification Writers, and Coating Applicators.

For more information, go to:

<https://www.corrosion.com.au/training/training-programs/coating-inspector-program-level-1-ampp/>

When things are not always what they appear to be...

Media attention has been recently focused on the condition of the USS Abraham Lincoln, a 335 metre long nuclear-powered aircraft carrier, covered in rust from bow to stern. As the huge warship (5000 crew) pulled into port in Thailand, observers were “shocked” to notice its poor appearance (CNN Newsource).

However experts say that this not unexpected after what the US Navy stated was 286 days at sea since the carrier left its homeport of San Diego. The warship has been at sea through months of active combat duty against Iran in the Persian Gulf. Biofouling and rusty steel along the waterline is not unusual on a ship that has spent many months of continuous operation at sea.

The Navy said that they would do only high-priority maintenance work during the seven-day Thailand port visit. The rust on the bow and forward hull areas was to be done first because these areas take the most abuse when the ship is moving, and they also absorb the corrosive actions that accompany moving through salt waters, particularly choppy seas.

The US Navy said some of the rust on the upper levels would be treated while the ship was underway, but the vessel must be stationary and free from wave action when making repairs along the waterline. At the port in Thailand the biofouling and waterline rust damage was to be treated by high-pressure water blasting during the week-long stay.

The deceptive appearance of surface rust

The visual presence of rust, while aesthetically concerning, is rarely a direct indicator of immediate structural damage. In many environments, structural steel is deliberately designed with a corrosion allowance and the physical appearance of surface corrosion often exaggerates the actual structural steel loss underneath.

Cosmetic vs structural corrosion

The reason rusty steel rarely fails suddenly comes down to the nature of the corrosion process and engineering design:

- **Volumetric Expansion:** Iron oxide occupies significantly more volume than the original base metal (roughly four times greater). A small amount of lost steel can produce a flaking, highly visible layer of red rust, making the damage look far worse than it is.
- **Uniform Corrosion Rates:** atmospheric rusting on carbon steel tends to proceed at a predictable and measurable rate in mm/year, allowing asset owners (including ship owners) ample time to inspect, clean, and recoat the steel before any structural capacity is compromised.

When rust does signal danger

While uniform surface rust is manageable, structural risk shifts dramatically when corrosion changes from a predictable surface loss to a localised corrosion mechanism. Sudden or unexpected failures are rarely caused by visible, evenly rusted surfaces; instead, they stem from insidious degradation corrosion modes.

- **Pitting Corrosion:** Deep, localised pits can act as acute stress-concentration points, drastically reducing the effective cross-sectional area and triggering fatigue cracks under cyclic loading.
- **Stress Corrosion Cracking (SCC):** particularly relevant in high-strength steels or specific alloy families, SCC can cause catastrophic failure with virtually no prior section thinning or warning signs.
- **Crevice Corrosion and Galvanic Action:** moisture traps at joints, bolts, or dissimilar metal interfaces can accelerate section loss, out of sight during routine visual inspections.

Things are not always what they appear to be at first sight.

USS Abraham Lincoln
arriving in Thailand



Source: Radio NZ News, September 2026

Taranaki Careers & Training Expo

August 17-18, 2026, TSB Bank Stadium, New Plymouth

New Plymouth ACA Members Ry Collier, Mark Sigley, Rob Burroughs, and Lakein Cottam got together to run a booth at the Taranaki Careers Expo, under the Australasian Corrosion Association banner.

It was a two-day event, with approximately 3,000 students going through the Expo. There was a surprising amount of interest in the corrosion control industry stand over the two day event.

The pictures show the ACA members manning the ACA stand.



Industry leaders reach the right audience with the ACANZ Bulletin

For generations, ACA has been an important partner in helping to protect infrastructure across Australasia. The ACA NZ Branch Bulletin has been produced for over two decades and has built a strong reputation for providing industry news, reliable technical content, and good information about developments in the corrosion control world.

Each monthly issue of the Bulletin reaches over 1200 dedicated recipients in NZ and Australia, and the pass-on rate of the Bulletin is very good.

We are supported by ACA members who understand corrosion, along with asset managers who know how we all fit into the wider asset protection industry.

Our readers range from senior decision makers, business owners, consultants, technicians, sales

staff, and students/staff at Universities.

Working with The Bulletin Team gives your company:

- Increased visibility with highly targeted audiences
- Qualified leads through trusted technical content
- Increased credibility alongside respected brands
- Access to business leaders & professionals

The Bulletin sponsorship cost is \$400+gst per monthly issue. This includes a front page advertisement and an optional advertorial inside the Bulletin. We can help you put together an advertisement, if you wish.

If you are interested in this offer to sponsor the Bulletin please contact the Bulletin Team Editor, Les Boulton, at lesboultonrust@gmail.com

Innovation needs more than good ideas

Advertorial

Most organisations have no shortage of ideas.

A new coating system. A different fabrication detail. A more efficient or alternative way of working.

The challenge is rarely the idea itself.

The challenge is proving that it works.

At Ferric Consulting Ltd, we help clients bridge the gap between innovation and implementation by combining technical expertise in durability, protective coatings, passive fire protection and compliance with a practical understanding of experimental design, performance verification and risk management.

Whether the objective is to evaluate a new product, challenge an existing assumption, extend maintenance intervals, improve inspection processes or demonstrate the suitability of an alternative solution, success depends on generating credible evidence and asking the right questions from the outset.

Too often, trials fail because they are poorly designed, critical variables are overlooked, or the results cannot withstand technical scrutiny.

We work alongside asset owners, engineers, contractors and manufacturers to develop meaningful outcomes and support informed decision-making.

Sometimes the result confirms the original concept.

Sometimes it challenges it.

Either way, decisions are made on evidence rather than opinion.

Alongside this capability, Ferric Consulting provides specialist services in:

- Corrosion and durability engineering
- Protective coatings
- Passive fire protection systems
- Technical auditing and compliance reviews
- Condition assessments and forensic investigations
- Expert witness and dispute resolution support

In an environment where performance expectations continue to increase and budgets continue to tighten, there has never been greater value in understanding what works, why it works and how to demonstrate it.

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