

2024 June Newsletter

As we reach the midpoint for 2024, we are excited to share the highlights from the past six months. It has been an event-filled half-year for the GREG.



Bernie thanking Dennis for service as group treasurer since inception

We extend our thanks to Dennis Clarke and Ian Burston who stepped down from the committee at our AGM. We also welcome our new committee members, Poorya Shaghghi



New Members Gary and Poorya, who are also new committee members

and Gary Dunmore to the committee for this year, and all our new general members who have joined us in 2024.

AGM

The AGM, followed by a presentation and a dinner, was held in March at the Davidson Culinary Collection, Gordon TAFE Restaurant. It was well attended by 27 members and 2 guests. Ian Burston chaired the AGM and the election of committee members. The names of the 2024 Committee members are given at the end of this newsletter.



President Bernie Chen gave special thanks to founding treasurer Dennis Clarke who stepped down. New committee members, Poorya Shaghghi and Gary Dunmore and new members were welcome and current members were thanked for their continued support throughout the year.

Following the AGM, Ian formally introduced Bernie as our speaker for the evening. Bernie delivered a presentation on Continuing Professional Development (CPD) explaining the requirements and the process to obtain the necessary recognition. He emphasised why CPD is now even more relevant and important due to the introduction of the Victorian Professional Engineers Registration Scheme. A copy of the presentation slides is available on our website for reference.

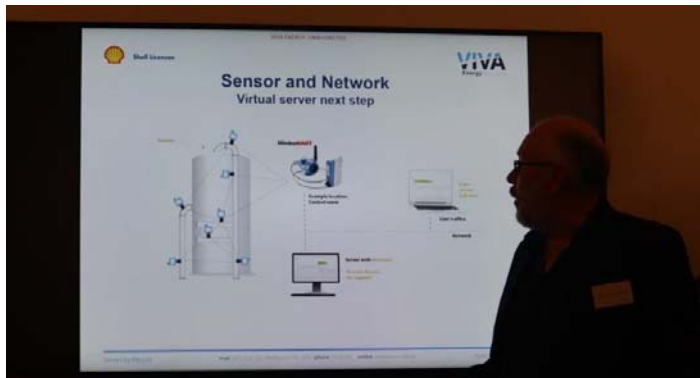
The presentation stimulated many good questions and discussion on members' experiences and challenges in obtaining registration.

Dinner followed at the Davidson restaurant, allowing members to network and socialise.

May Dinner Meeting and Presentation

Topic: Online Continuous Thickness Probes (e.g. "Permasense®"). Applications and real-world concerns – on-time real-time material loss, enabling better process control and integrity management.

Our guest speaker for the May dinner meeting was David Farnsworth, a materials and corrosion engineer with Viva Energy Aust., with a strong background in material science, corrosion, and asset integrity. David gave an extremely interesting presentation on



Equipment Integrity Management through online material thickness measurement.

He explained how Viva Refinery processes crude oil through various treatment facilities producing approximately 200,000 barrels of output daily. With 15,000 km of pipework and hundreds of process vessels, managing these assets is critical for the reliability of the business. Critical and high-wear areas of the process pipelines and equipment are identified and monitored for corrosion and/or erosion at discrete points at set periodic intervals.



As a supplement to periodic intervals to gain a trend of the progress of corrosion/erosion in real-time, ultrasonic sensors are used to give a more frequent measurement to better trend material lost rates. Real-time data-to-desk measurement of wall thicknesses is provided approximately every 12 hours to better correlate between the changes in operating parameters and the effect of these changes with material loss. This enhances business outcomes from optimum operating solutions such as when to change pipework to prevent

having an unplanned failure. It also helps to improve safety by reducing inspection personnel's exposure to hazards such as difficult environments and high temperatures.

Following David's engaging presentation, members adjourned for networking and dinner at the Davidson Restaurant.

Many thanks to David for his excellent presentation.

Upcoming Events

A great lineup of upcoming events has been secured. Attendance at these events provides an opportunity to collect CPD hrs. We look forward to your continued participation and support.

- 26 and 29 June – World Refrigeration Day celebrates the discovery of refrigeration 170 years ago by Geelong's James Harrison. The GREG is supporting the National Trust of Victoria at the Geelong Showgrounds with the exhibition. Go here to see [flyer](#) .
- 18 July 2024 - Dinner meeting, Guest speaker - Ian Godson from Infracorr on concrete corrosion, early detection and remediation.
- Sept 2024 – Dinner Meeting, Guest Speaker – Deakin University Renewable Energy and Power Lab presentation by Dr Saman Gorji.
- Nov 2024 – (to be decided)

Membership

As a friendly reminder to our members who have yet to pay their membership for this year to please make payment before the end of the financial year for benefit of getting a tax deduction in this financial year ending 30th June 2024.

You would have received a reminder email with invoice and payment details to secure your continued financial support for this year.

Prepared by:

Eleanor Smith-Waters and Ian Burston.

Your committee members:

Chairperson – Bernie Chen	bernard.chen@bcp-solutions.com.au
Treasurer – Piyush Jain	treasurer@greg.asn.au
Secretary – Rory Lynch	contact@greg.asn.au
Membership Officer – Robert Gregory	membership@greg.asn.au
Engineers Registration Working Group – John Lambert	lambertj235@bigpond.com
General Committee – Stephen Hagebols, Eleanor Smith-Waters, Poorya Shaghghi, Gary Dunmore	
Student Representative – Pierson Lang	