

Life Extension and Protection of Assets

Report on SUT Perth Branch Evening Technical Meeting
Wednesday 6th April 2016

By Rex Hubbard, Perth Branch Committee Member



The second SUT technical evening for 2016 at the Parmelia Hilton was opened by SUT Perth Branch Chair, Julie Morgan and chaired by SUT Committee Member Rex Hubbard. The evening included three presentations: i) **“Life Extension – The Wandoo Story”**, ii) **“Maintaining Old Equipment / Protection”** and iii) **“Data Recovery From Historic Shipwrecks: Corrosion Layers Reveal the Past, Present & Future”**. Separate to the presentations a poster board was hosted by **Linden Jones, Regional Engineering Manager, Proserv** presenting **“Life Extension and Protection of Ageing Assets, Through Friction Stud Welding”**.

First to present was **Abigail Anderson (Operations Engineer, Vermilion Oil and Gas Australia)**. Abi’s **“Life Extension – The Wandoo Story”** presentation commenced with a trip down memory lane for some audience members, taking them back to 1993 when the field was first installed. An overview of the life extension scopes for Wandoo’s Subsea Systems (Flowlines) and Marine Systems (Export Systems) was then presented, highlighting amongst other things the methodologies, analysis and lessons learned from the life extension process.

Next to present was **Tuan Do (Engineering Lead North Area - Subsea Services, FMC Technologies)**. Tuan’s presentation **“Maintaining Old Equipment / Protection”** reiterated the important principle that whilst Subsea Equipment has a long life subsea it is prone to damage above-surface due to things including UV Exposure, Humid Environments, Temperature Fluctuations and other factors. Tuan outlined the methods and practices for preserving equipment and maintaining it when in storage so that it is ready for use if or when required.

Completing the series of presentations was **Dr Ian Macleod (Executive Director, Fremantle Museums and Collections)** who gave the audience a different perspective on subsea asset preservation (and historical metocean events) with his highly entertaining and informative presentation on **“Data Recovery From Historic Shipwrecks: Corrosion Layers Reveal the Past, Present & Future”**. Ian illustrated how scientific and archaeological “detective work on wrecks or artefacts can derive a range of information on corrosion conditions, metocean conditions and metocean events which would better inform the design and integrity management of subsea architecture nearby.

On behalf of the SUT and the evening’s audience I would like to thank the sponsors for this evening, FMC Technologies and Subsea Engineering Associates. I would also like to thank the SUT’s Perth staff for their consistently high standard of event planning which made this ETM yet another successful evening.

- Rex Hubbard