Technical Dinner Meeting

Optimize your corrosion monitoring investigations with fast & accurate corrosion pit measurements

Guest Speaker: Dr. Deepak Sharma, Bruker Nano Surfaces, USA

Date:	**Thursday, 5th December 2013**
	6.30-8.30pm (light meal at 7.00pm, technical presentation at 7.30pm)
Venue:	Seminar Room, NUS Staff Club, 10 Lower Kent Ridge Road
Registration:	No Cost (members) and S$5 (non-members)
RSVP:	Pre-register by **Wednesday 27th November** at nacesingapore@gmail.com

Outline of Technical Presentation:

Corrosion damages everything from buildings, pipelines, bridges, vehicles, water systems and even home appliances. Protecting people, assets and the environment from corrosion is a major concern for many. Corrosion costs an estimate of USD2.2 Trillion annually. Thus, the ability to slow or prevent corrosion is a common goal for many companies across various industries.

Corrosion is a particular concern in the oil and gas industry. The corrosion rates of pipelines are commonly tracked by monitoring the metal coupons that are co-located with assets that are subjected to the corrosive environment. The extent of the metal coupon corrosion is then measured for continual corrosion monitoring and investigation.

Several technologies are developed and deployed to protect assets from corrosion. In this technical talk, Bruker will share one of the solutions using 3D optical profilometry, to achieve accurate and rapid measure of corrosion pits at sub-nano resolution. We will also share results from measurements taken using a specially configured corrosion monitoring system showing measurements of Surface Roughness and with varying levels of corrosion.

In addition, gain powerful insights on:

- Rapid multi-pit (1000's) identification with simultaneous dimensioning and volume calculations of corrosion pits
- Automated outer and inner diameter imaging of cylindrical coupons
- Automated multiple coupon measurement

The above insights will enable asset managers to monitor corrosion rates regularly and accurately at a much earlier stage. This empowers them to take action sooner to prevent further corrosion, thereby potentially saving millions of dollars of damage.

Join us to learn more on optimizing your corrosion monitoring investigations with high speed, automated and accurate corrosion pit measurement.

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