**London Branch - News**

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**February 2017**

**In Brief:**
- An excellent debate
- Can EIS assist with determining coating performance

**The Route to Chartered Status**
Program starts February 2018

**The Fundamentals of Corrosion**
Next course March 2018 TBC

**Young Engineer Program**
Starting February 21st Welding with Alan Denny at CB&I in Paddington

**Winter Meetings:**
- **February 8th 2018**
  The use of EIS as a predictive tool for coating lifetime of FBE coated pipe by Axalta Powder Coating Systems
  Skempton, Imperial College
  18.00 for 18.30 start
- **March 8th 2018**
  Non-intrusive inspection methods to determine metal loss on the base plates of Storage Tanks by Sonomatic Ltd
  Skempton, Imperial College
  18.00 for 18.30 start
- **April 12th 2018**
  Skempton, Imperial College
  18.00 for 18.30 start

**Contact Us:**
admin@icorr.org
immasuwiryamobbs@yahoo.com

**Find Information:**
www.icor.org

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**The EIS Debate**

**The Use of EIS as a Predictive Tool for Coating Lifetime**
Dustin Traylor, MSE – Axalta Global Product Manager
Dr. Stephen Drew – Axalta EMEA Coatings Leader

The presentation given by Dustin was excellent, raising a significant discussion amongst those attending. Dustin’s idea was to raise awareness of new predictive modelling techniques for coating life and performance. A new generation of high temperature coatings, such as high glass transition temperature Fusion Bonded Epoxy (with Tg 205°C), are being developed as a lower cost alternative to expensive alloy steels. However, the highly-functional epoxy resin and ingredients in these new coatings can make interpretation of testing results difficult for coating specifiers. Dustin Traylor, MSE and Dr. Stephen Drew of Axalta Coating Systems explore the benefits of using Electrochemical Impedance Spectroscopy (EIS) after atmospheric testing to assess a coating’s life expectancy. This technique has now been adopted by Aramco and Chevron and is gaining credibility as a useful tool in the pipeline market.

The conclusion was that EIS did have a part to play in conjunction with accelerated weathering; Autoclave and Atlas Cell to assist with the determination of expected coating life.

To verify the laboratory work to date, the Axalta team needs field data on aged coatings to establish if this is an appropriate standard for testing of coatings.

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Dr Steve Drew and Dustin Traylor receiving a vote of thanks from Past President Trevor Osborne