

February 2018

Corrosion Fundamentals

**In Brief:**

- The second of the YEP program
- The YEP delegates enjoy a networking event after an evening of study - Lebanese

**Young Engineer Program**

21<sup>st</sup> February; Welding & NDT, Alan Denney at CB&I in Paddington

21<sup>st</sup> March; Materials, Sadegh Parvizi at CB&I in Paddington

16<sup>th</sup> May; Coatings and Linings, Malcolm Morris at CB&I in Paddington  
*NB The Case Studies will be issued at the May meeting*

20<sup>th</sup> June; Fire Protection, Mike Raynor at CB&I in Paddington

18<sup>th</sup> July; Cathodic Protection, Trevor Osborne at CB&I in Paddington

19<sup>th</sup> September; Chemical Treatments, George Winning at CB&I in Paddington

17<sup>th</sup> October; Risk Assessment, Monitoring and Inspection, John Lilley at CB&I in Paddington  
*NB There will be discussion on Presentation Skills at the October meeting*

8<sup>th</sup> November; Presentation of the Case Studies and awards evening at Imperial College, London

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## Welding & Cutting / Non-Destructive Testing

By Alan Denney

The second presentation of The Young Engineers Program (YEP) also at CB&I in London with an excellent presentation on the complexity of Welding & Cutting followed by Non-Destructive Testing. The program continues through the year with 9 modules including a Case Study which the delegates will complete with the help of mentors.

The discussion was all encompassing but dealt with the basics of;

- The basics
- The common arc welding processes
  - Manual welding with covered electrodes; SMAW (MMA)
  - Submerged arc welding; SAW
  - Gas shielded welding; GMAW, (MIG / MAG)
  - Flux-cord arc welding; FCAW, SS-FCAW
  - Gas shielded welding with non-consumed electrode; GTAW (TIG)
- Choice of welding processes
- Cutting
  - Oxy-fuel cutting
  - Air-arc gouging



Alan Denney presenting the 2<sup>nd</sup> of the YEP programs at CB&I

The lecture continued Non-destructive testing where the scope was;

- Magnetic Particle Inspection
- Liquid Penetrant Inspection
- Radiography
- Manual Ultrasonic Testing
- It did not cover visual inspection which is the most common inspection method

The group enjoyed a networking session after the meeting at a local Lebanese restaurant courtesy of The Institute of Corrosion.

The next YEP meeting will be Materials and Materials Selection to be presented by Sadegh Parvizi on Wednesday 21<sup>st</sup> March at CB&I in London.

We are extremely grateful to Alan Denney and Sadegh Parvizi at CB&I and all the other members of ICorr that give up their time freely to assist our Young Engineers with their career development