Institution of MECHANICAL ENGINEERS

South Wales

South Wales Region

Institution of Mechanical Engineers

MATERIALS ENGINEERING

AN INSIGHT INTO THE ANALYSIS OF FAILED ENGINEERING MATERIALS

28th March 2023

Swansea University, Bay Campus, Fabian Way, Swansea SA1 8EN

Buffet From: 5:30pm
Lecture Start: 6.00pm

Speaker: Mr. James McConnell R-Tech Materials Ltd

The consequences of a materials failure can be minor or very significant. At one extreme, materials failures can lead to injury or even fatality. They may also cause unplanned costly maintenance, repairs, or replacement of a component, disruption to production, environmental damage, as well as HSE issues. All of these consequences can potentially cost a plant millions of pounds. Of course, it is equally possible than when a material fails, the consequences are not severe, and the cost not significant. The broken part may be simply replaced, and there is no justification for an extensive (and perhaps costly) failure analysis. The value of failure analysis is therefore determined as part of the overall risk management of a plant. It may also be necessary to understand the cause of failure for commercial reasons, such as product liability, insurance cover, legal claims etc.

For more information, please see our website for details:

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