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# 2024 Annual Corrosion Forum

## CUI – Expect the Unexpected

Clare Watt

Tuesday 27<sup>th</sup> August 2024

- **Presenter**
- Clare Watt
  
- Clare is from the United Kingdom and has over 20 years operational experience in oil and gas corrosion & integrity management including senior technical roles with international operators ExxonMobil, Apache and CNRI. She spent 6 years with KAEFER headquarters in Germany developing Corrosion Under Insulation (CUI) expertise and innovation and recently joined Intertek CAPCIS where she works as a corrosion and integrity consultant. Clare is a member of the Energy Institute Corrosion Management & Asset Integrity Committee and has contributed to various published industry guidance. She delivered corrosion training for Cranfield University MSC students for 13 years and currently co-delivers international CUI training.
  
- Clare shared some of the most surprising and/or interesting things she has learned through her experience with CUI/CUF and used these illustrated examples to demonstrate why this corrosion threat is so difficult for the industry to manage, with reference to the current innovation landscape that is aiming to rise to the challenges. Themes included how surprisingly isolated CUI can be, the limitations of accelerated short term laboratory testing, and the reliance on field datasets which underpins global CUI prediction, along with some unvalidated educated assumptions. CUI preferred designs can sometimes be the most difficult to inspect/monitor. Prediction is currently qualitative and conservative, and not always accurate. Examples of CUI failures that have provided key insights, that are not all incorporated into CUI prediction guidance, were shared. As proving what works is surprisingly difficult for emerging design, detection and innovation technologies, key success factors for the future were discussed and included some fantastic suggestions from the ICorr Young Engineers 2022 Aberdeen program.
  
- Please email: Clare on [clare.watt@intertek.com](mailto:clare.watt@intertek.com) if you require any further information in this topic. Clare is an approved ICorr CUI course tutor.