



# Fracture Toughness Testing

## TWI Industrial Members Event 2019

### Wednesday 30<sup>th</sup> October

- 09.00 – 09.30 Welcome
- 09.30 – 10.45 Introduction to fracture mechanics and fracture toughness testing
- 10.45 – 11.00 Tea/coffee break
- 11.00 – 12.30 Codes and standards in fracture toughness testing
- 12.30 – 13.30 Lunch
- 13.30 – 15.00 Specimen selection and preparation
- 15.00 – 15.15 Tea/coffee break
- 15.30 – 16.30 Lab tour and example fracture toughness test

### Thursday 31<sup>st</sup> October

- 09.00 – 10.00 Method for carrying out fracture toughness tests
- 10.00 – 10.15 Tea/coffee break
- 10.15 – 11.30 Analysis of test data and post-test metallography
- 11.30 – 12.30 Demonstration R-curve test in the lab
- 12.30 – 13.30 Lunch
- 13.30 – 14.00 Generating the test report
- 14.00 – 15.00 Using fracture toughness data
- 15.00 – 15.15 Tea/coffee break
- 15.15 – 16.30 Summary. Discussion of main testing pitfalls. Ask the expert

**Remember to bring safety shoes for the lab tour.**

