

Hard Materials – Mechanical Methods

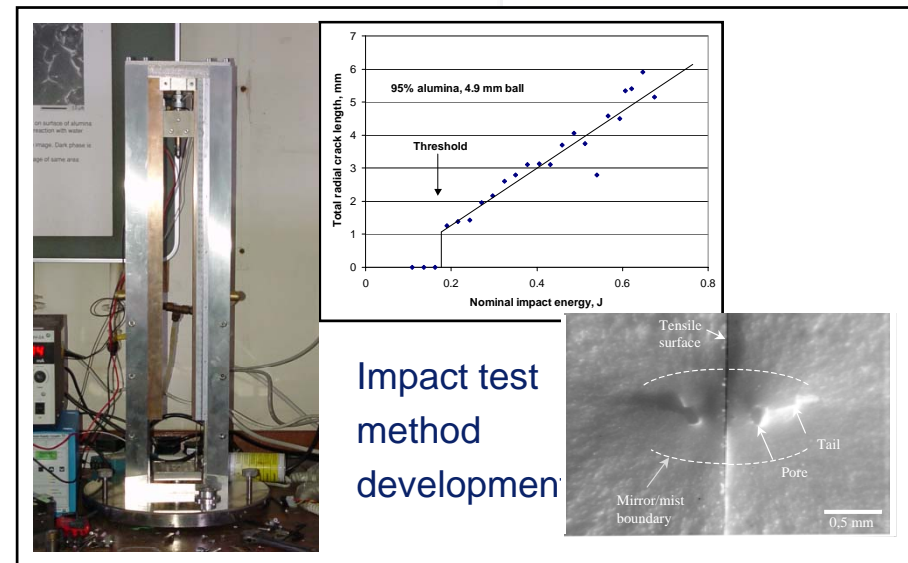
R Morrell, B Roebuck, M Gee, A Gant, E Bennett

Developing new and improved test methods to characterise impact, fatigue and surface degradation of Ceramics, Hardmetals

- Notch Fatigue
- Elastic properties
- Instrumented Impact
- Thermomechanical Tests
- Fracture toughness
- Edge chipping
- Fractography
- Standards



Rapid prototype testing
at elevated
temperatures



Impact test
method
development

Hard Materials – Surface Performance

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Developing new and improved test methods to characterise surface performance and degradation of Ceramics, Hardmetals and PM materials.

- Abrasive Wear
- Erosive Wear
- Sliding/fretting wear
- Corrosion effects
- Residual stresses
- Hardness mapping
- Hertzian damage
- Standards

