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AWARDS 2017



Strength Monitoring Using Thermal Imaging

Dr Benoit Jones



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Stakeholders

SMUTI inventor and supplier:

Dr Benoit Jones of the University of Warwick / Inbye Engineering

Projects worked with:

Crossrail Whitechapel Station - BMW JV

Bond Street Station Upgrade - CoLOR JV

ARGE Tunnel Oberau – Marti GmbH

Startup company support received from:

University of Warwick / Warwick Ventures

European Regional Development Fund

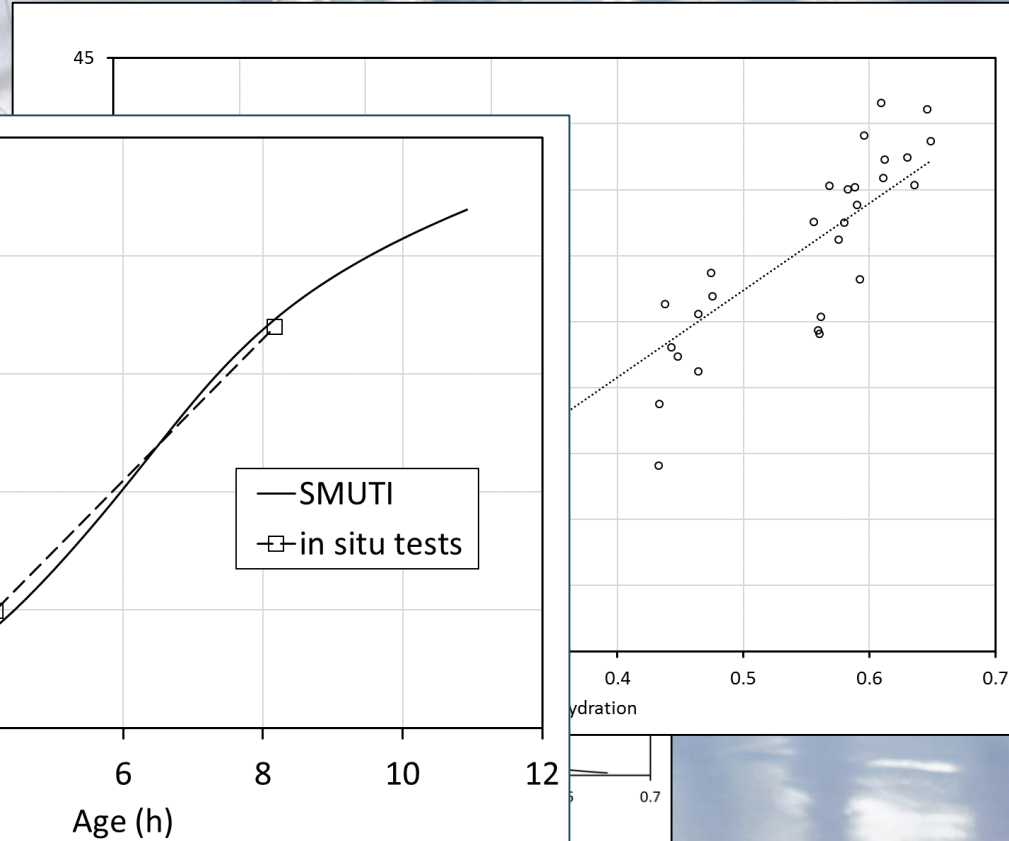
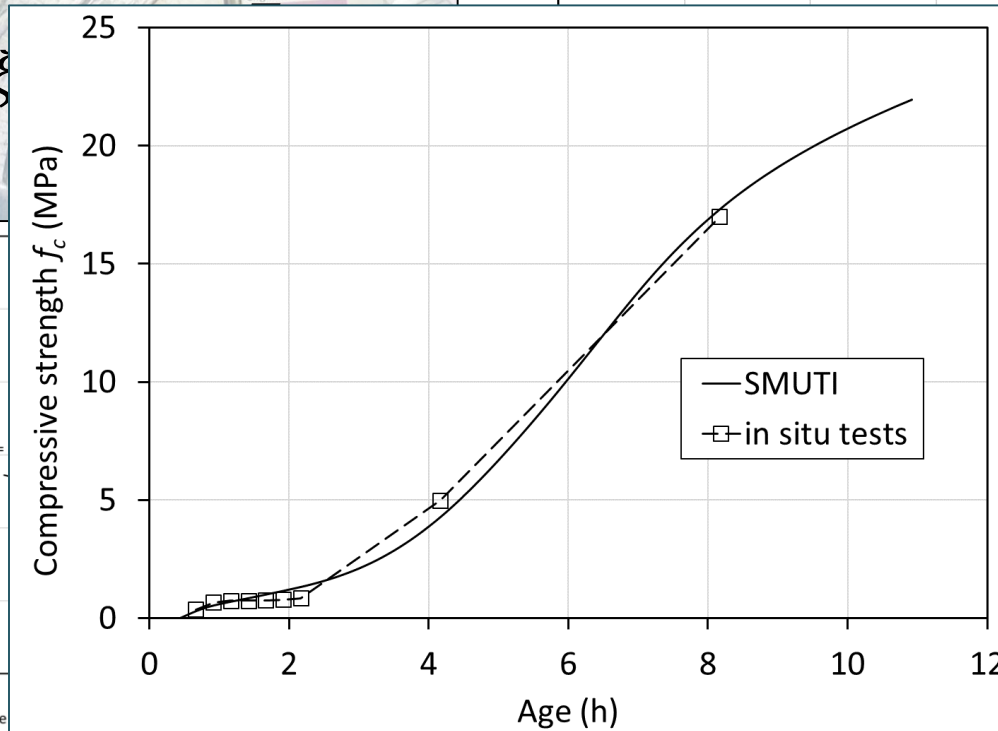
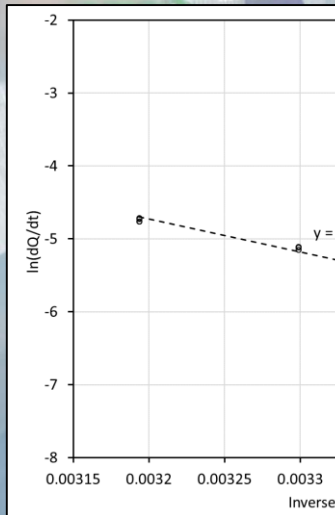
With special thanks to PhD student Vishwajeet Ahuja



Strength Monitoring Using Thermal Imaging

Arrhenius equation:

$$\frac{d\xi}{dt} = \tilde{A}(\xi)$$

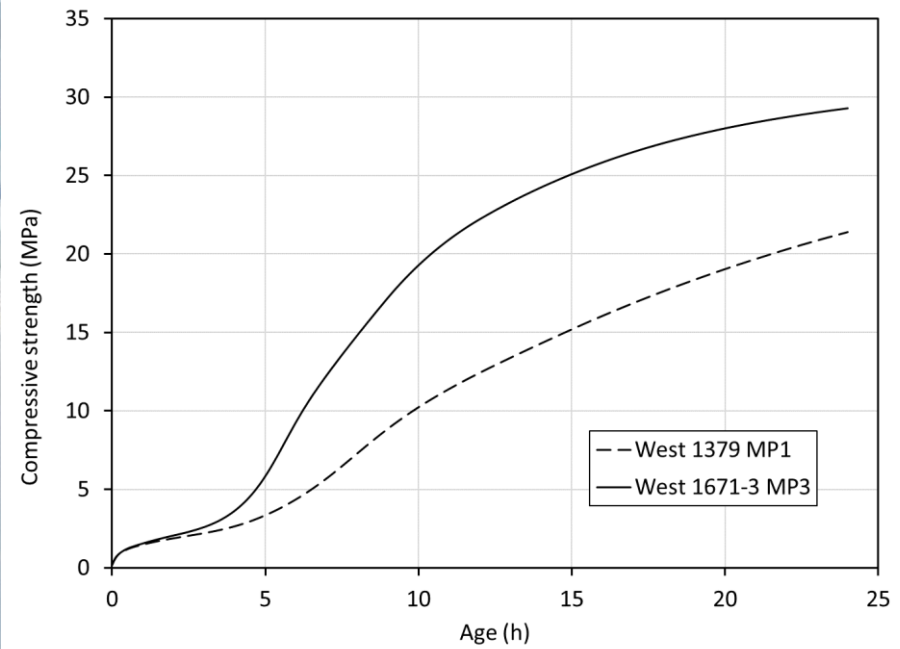
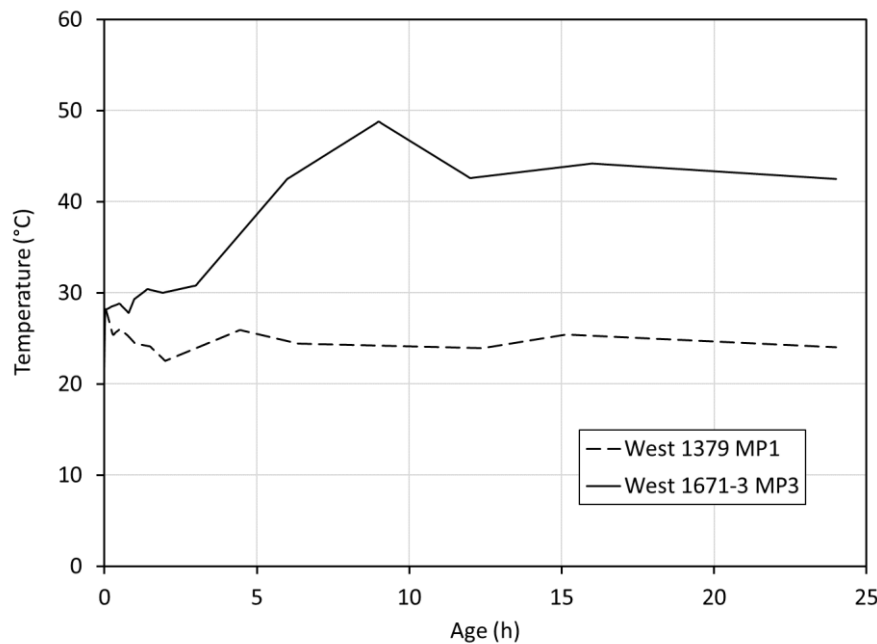




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Early strength is very temperature sensitive – other methods do not take this into account





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For safety and productivity, SMUTI is the only method

