



# THE FASTENER AND ENGINEERING RESEARCH ASSOCIATION

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## FOCUS ON CONSTRUCTION

### FERA SEMINAR – WEDNESDAY 27 SEPTEMBER 2006

National Metalforming Centre - 9.30am [Registration 9.00-9.30am]

The Fastener Engineering Research Association will be holding a seminar on topics that have relevance to Members and invited guests. On this occasion we shall focus on subjects that have some connected problems for those who have an interest in Industrial Construction Fixings.

#### CONSTRUCTION FASTENERS – USE AND DEMANDS

Various product types are available and selection depends upon the application conditions in order to meet the requirements of the safety critical aspects. Product liability is fundamental, in terms of the crucial aspect of product performance and reassurance. Independent bodies are now able to test and approve metal anchor fixing products for suitability and purpose as well as confirming accreditation.

The transformation of systems in this sector has been immense due to the rapid growth in the construction industry worldwide. The product ranges have great depth, thus requiring a high measure of investment in technical attributes, as well as custom design. The attachment of beams to Rolled Hollow Sections needs to be addressed at this time?

However, standard applications are prominent and selection may require some assistance from the fastener community. We have invited Thomas Cosgrove, Principal Engineer, of the Constructional Steelwork Institute who will update our awareness of their needs and requirements. New products for the twenty first century are the needs of the designers and architects and the challenges for the fastener industry must be noted!

#### TENSION CONTROL BOLTS

Following, we have invited a FERA Member to make a presentation on the use of Tension Control Bolts and their applications in this sector of the Construction Fixings fastener industry. Tim Stokes, Managing Director, Tension Control Bolts Ltd will expand on their capability.

#### STRESS CORROSION CRACKING – HOW TO RECOGNISE THE PROBLEM

Stress corrosion cracking, stress embrittlement, hydrogen embrittlement, and hydrogen-assisted stress corrosion are failure mechanisms which are often viewed as being synonymous and, understandably so, because their cause and effect similarities outnumber their identifiable differences.

Actually, only stress corrosion cracking and hydrogen - assisted stress corrosion is corrosion related. However, this is an appropriate time to discuss the other two as well. Understanding and recognising the problem may have other implications. We bring the topic to your attention once again, particularly in the realm of Construction Fixings. Mark Hayes, Senior Metallurgist, of the Institute of Spring Technology Ltd will enlighten us on how to identify the symptoms.

£££: **FERA/CBM members & members' guests £25+VAT**  
**Non members £50+VAT**

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## FERA Seminar

**Date:** Wednesday 27 September 2006

**Time:** 9.30am – 1.00pm

**Venue:** National Metalforming Centre

**£££:** FERA/CBM Members & members' guests  
£25 + vat inc lunch

**Non members £50 + vat inc lunch**

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