THE FASTENER ENGINEERING AND RESEARCH ASSOCIATION
National Metalforming Centre • 47 Birmingham Road • West Bromwich • West Midlands • B70 6PY
T: 0121 601 6350 • F: 0121 601 6373 • E: generalsec@fera.org.uk • W: www.fera.org.uk

# FERA SEMINAR – VIBRATION RESISTANCE OF FASTENERS

## TUESDAY 13 NOVEMBER 2007

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 interests within the membership and to bring to the attention of specifies and designers, new progressive products and aspects of fastener technology.

### TESTING FOR VIBRATION RESISTANCE

Bill Eccles of Bolt Science is well known as the leading fastener application engineering consultant in the UK, and is at present engaged in doing an advanced degree on the vibration resistance of fasteners. Bill will review how vibration resistance of fasteners is tested, including the Junker test used in industrial and automotive applications with transverse forces applied to the bolted joint, and in aerospace applications with more shock loading applied.
He will then show how various locking elements behave in these tests, and discuss some notable failures in service.

### LOCTITE ADHESIVES

Bob Orme, Senior Technology Specialist, and Colin Chapman, Marketing Manager, of Henkel Loctite Adhesives, will present information on the Loctite range of adhesive products for thread locking, and their capability. A particular focus will be given to case histories where the various products are successful.

### PERFORMANCE OF SPIRALOCK INSERTS

Cross Manufacturing Co has developed a range of wire thread inserts with the Spiralock thread form that has excellent properties of vibration resistance. Rodney Cross, Chairman of Cross Manufacturing, will present data on the performance of these inserts, and their current successful applications.

**£££:** **FERA/CBM members & members' guests £25+VAT**
**Non members £50+VAT** to include free buffet lunch

PTO

# FERA Seminar

**Date:** Tuesday 13 November 2007

**Time:** 9.30am – 1.00pm

**Venue:** National Metalforming Centre

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

Non members £50 + vat inc lunch

Please complete and fax to CBM – Fax 0121 601 6373

Name: _____

Company: _____

Address: _____

_____

Tel: _____

Email: _____

**PAYMENT**

Cheque enclosed for £ _____ [inc VAT] made payable to **CBM**.

Payment by Credit Card: Delta Mastercard Visa

Name of Cardholder: _____

Address of Cardholder: _____

_____ Post code: _____

Card Number: _____ Expiry Date: _____

Signature: _____ Date: _____

The Fastener and Engineering Research Association [FERA], National Metalforming Centre,
47 Birmingham Road, West Bromwich, West Midlands B70 6PY
Tel: 0121 601 6350 Fax: 0121 601 6373