



30 Years of the EIS



The 80s



1973

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1983

- The Durability & Fatigue Group can trace its roots back to September 1973 and the first Fatigue Group Conference was held in 1974 at City University, London.
- In 1983 the group celebrated its 10th Anniversary with a dinner at Queens' College, Cambridge.

1985

- Engineering Integrity Society founded 15th November 1985.
- The first EIS conference Mynd in June.

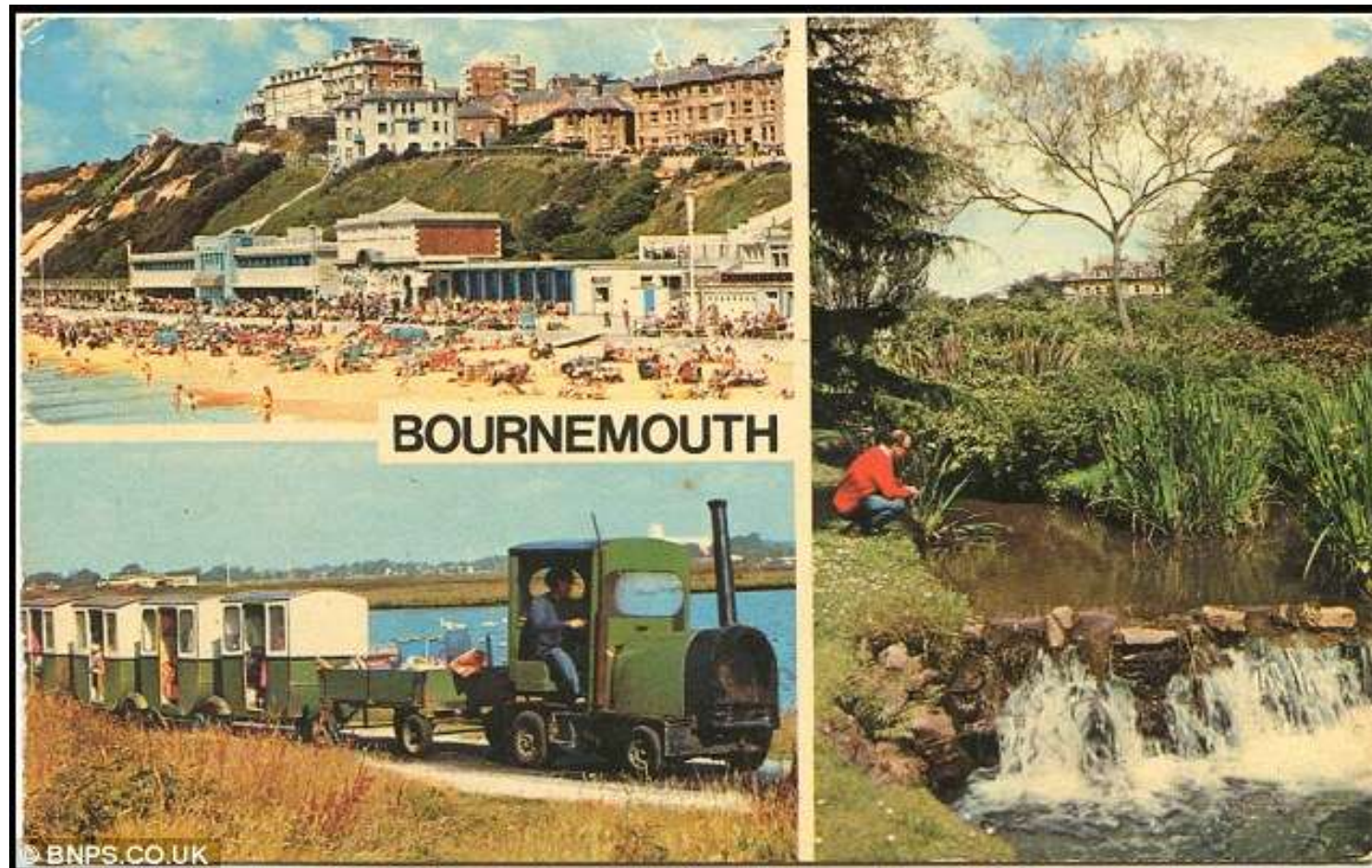


Long Mynd Hotel, Church Stretton



1986

EIS 1 Measurement & Fatigue Conference held in Bournemouth.







John Edwards presents EIS certificates of sponsorship to Alan Ottoway of John and Seilhofer UK (above) and John Draper, (Chairman GVIC/nCode International).



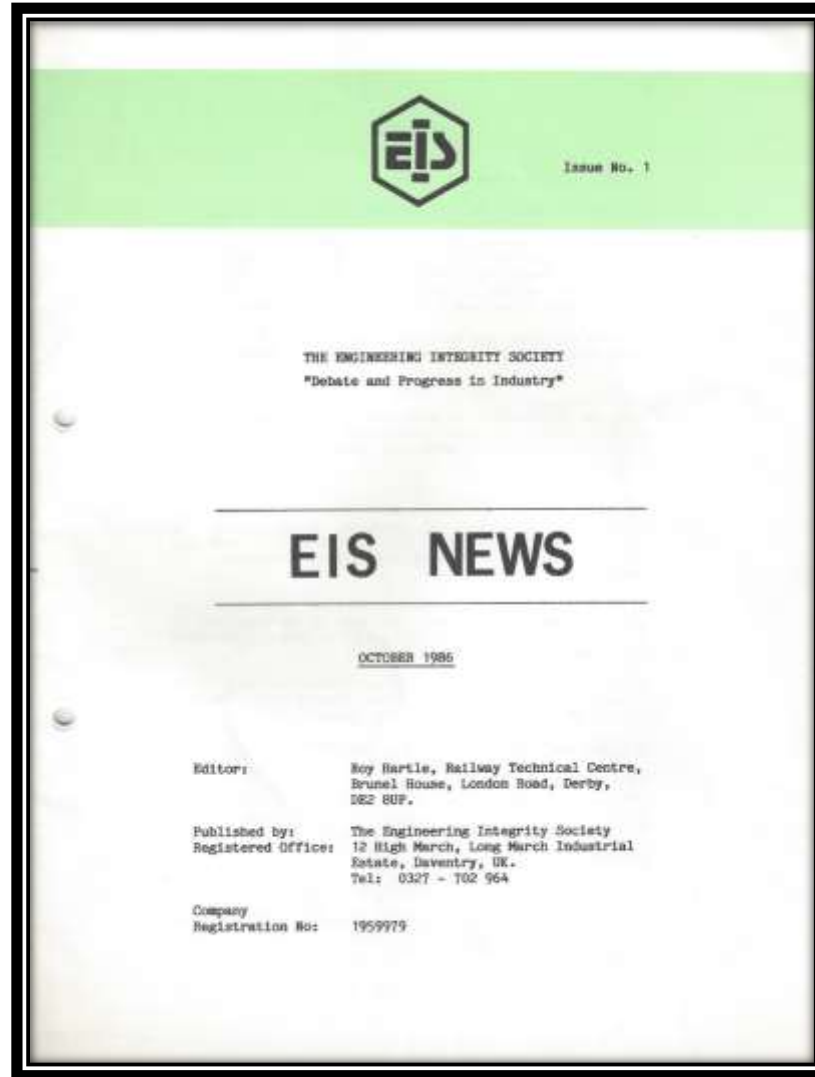








First edition of EIS news published in October.

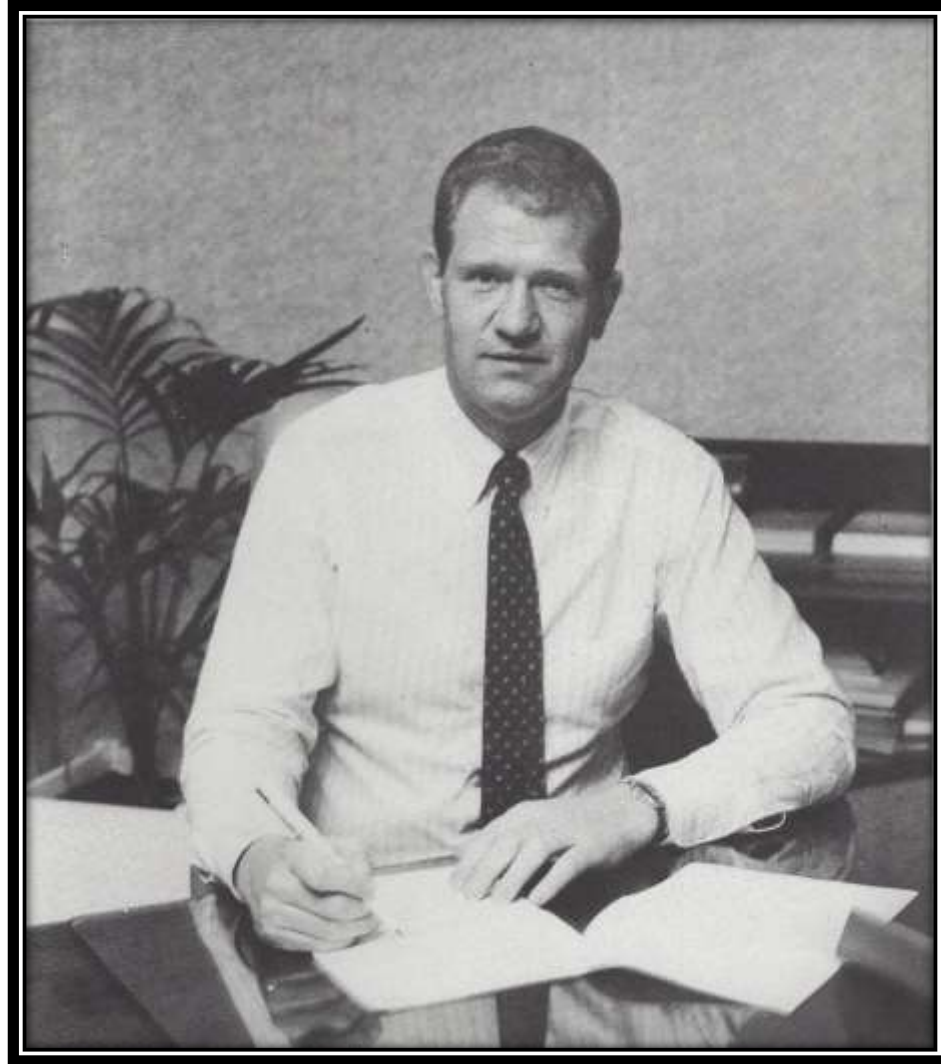


Long Mynd Hotel, Church Stretton



1987

Dr Peter Watson awarded O.B.E.



1988

Purchase of the EIS Lodge, Bala where meetings and task groups were held for several years.



Palace Hotel, Buxton



1989

Palace Hotel, Buxton

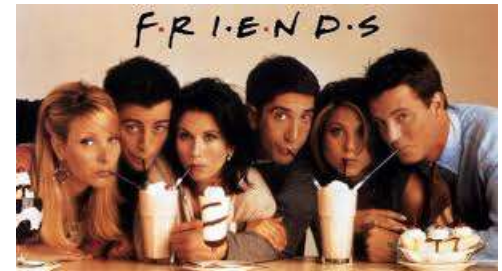
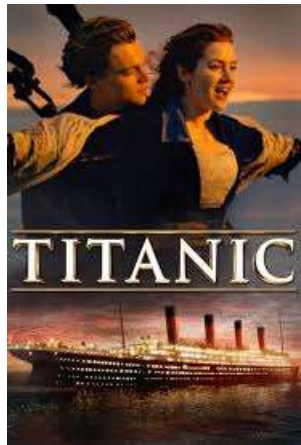








The 90s



1990

EIS 2 Engineering Structural Integrity Through Testing conference held in Birmingham.



1992

1993 & 1994

Engineering Integrity, Technical Needs of Rolling Stock Leasing, ICC, Birmingham.



1995

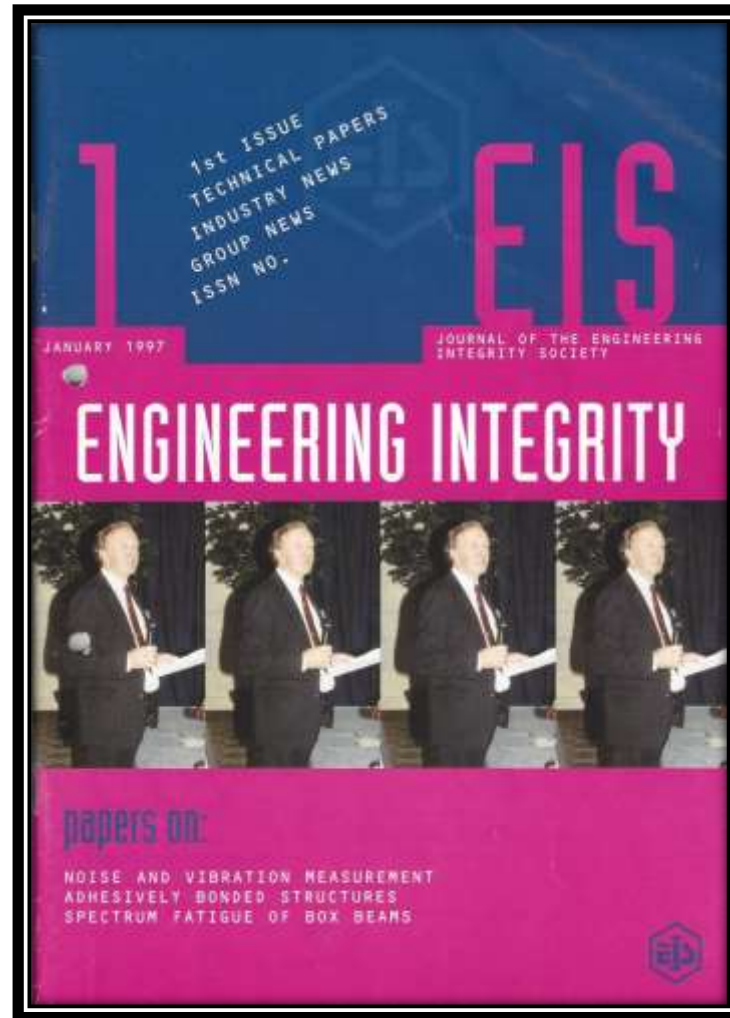
EIS 95 Product Optimisation for Integrity.
Computers: a boon or burden? Sheffield Hallam
University, Fat Cat Conference Dinner





1997

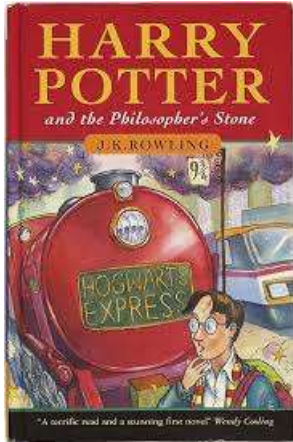
January 1997 – first publication of Engineering Integrity.



1998

Fatigue Group 25th Anniversary, University of Sheffield.





The 00s



2000

Fatigue 2000 – Materials Components and Structures, Robinson College, Cambridge.



Sponsorship of Westcroft School land yacht



EIS 'Innovation' award as part of Year In Industry



2002

STMG Conference 2002











Gas Engines

Although intended to run on kerosene, the lighting gas in the exhibit is actually a mixture of gas and oil. This is a common mixture used in early gas engines.

Gas engines were first used in the late 18th century. The first gas engine was built by James Watt in 1784. It was a horizontal steam engine that used a piston to compress gas. This was a major improvement over the earlier vertical steam engines.

Gas engines were used in a variety of applications, including power generation, transportation, and industrial machinery. They were particularly useful in the early 19th century when coal was the primary fuel source.

Today, gas engines are still used in many applications, including power generation, transportation, and industrial machinery. They are often used in areas where coal is not available or where a more compact and efficient engine is needed.

Throughout the 18th & 19th Centuries you can see how mechanical power was transmitted from one of the most fundamental parts of the steam mechanism, the gas engine or turbine to one of the systems.

Gas engines are more efficient when run at high speeds but sometimes, very high speeds are not at all desirable. To get around this the designers generally use gears to reduce the speed to the minimum for safety and power. The two main types of gears used in the steam engine are the spur gear and the bevel gear. The spur gear is the most common type of gear used in the steam engine. It is a gear with a large diameter wheel, which drives a small pinion. This can be considered as "powering up".

At first, the long continuous piece of leather for these belts, called two-groove back, it was probably replaced by a cotton or hemp winding frame with rubber rollers, which was stronger, more resistant to the damp and not so difficult to find.





2004

EIS 2004





2003

& 2007

Fatigue 2003 – Materials Components and Structures – Queens' College Cambridge.































2012

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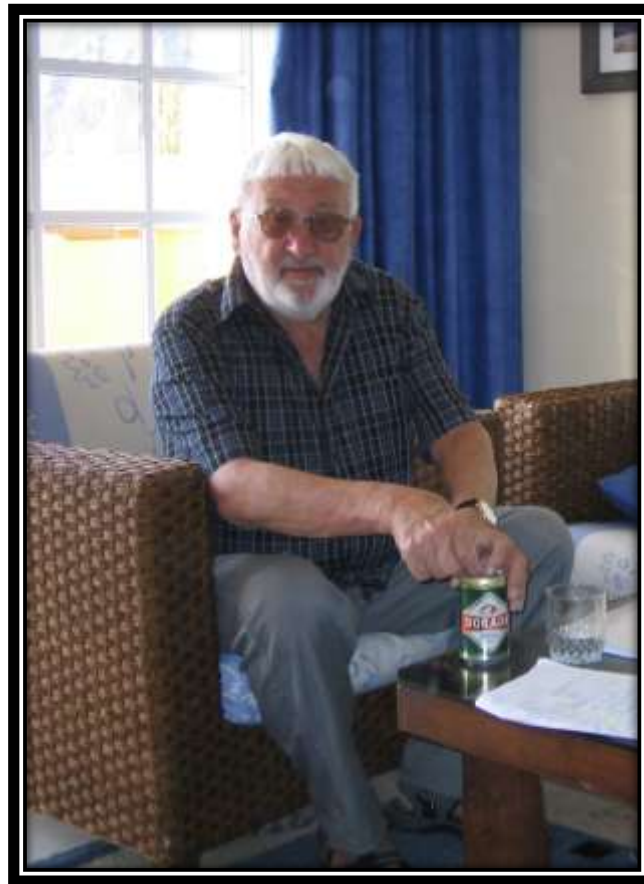
2015

Peter Watson (1944 – 2015)
President of EIS



Frank Sherratt (1928 – 2015)

Founder member & double life member



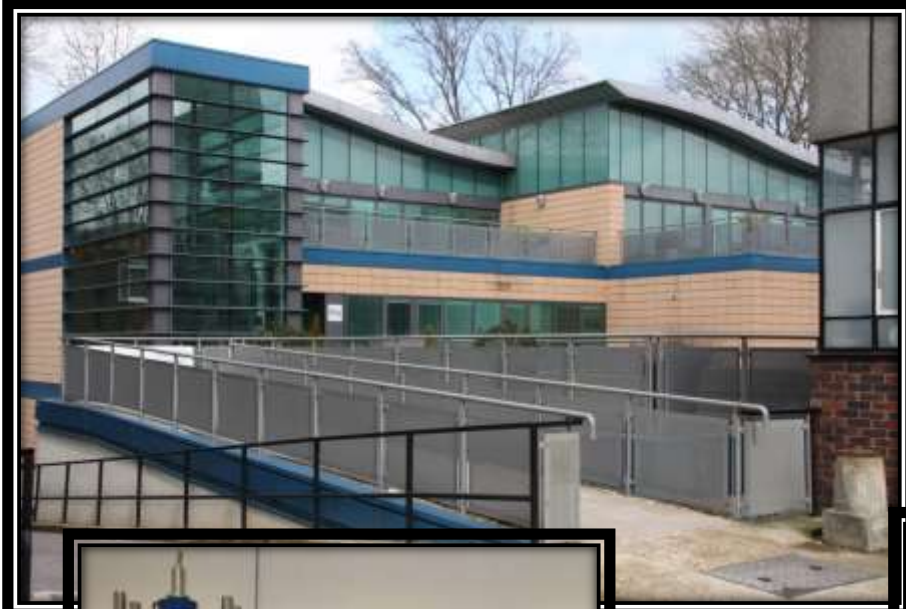
Advanced Engineering Shows - NEC

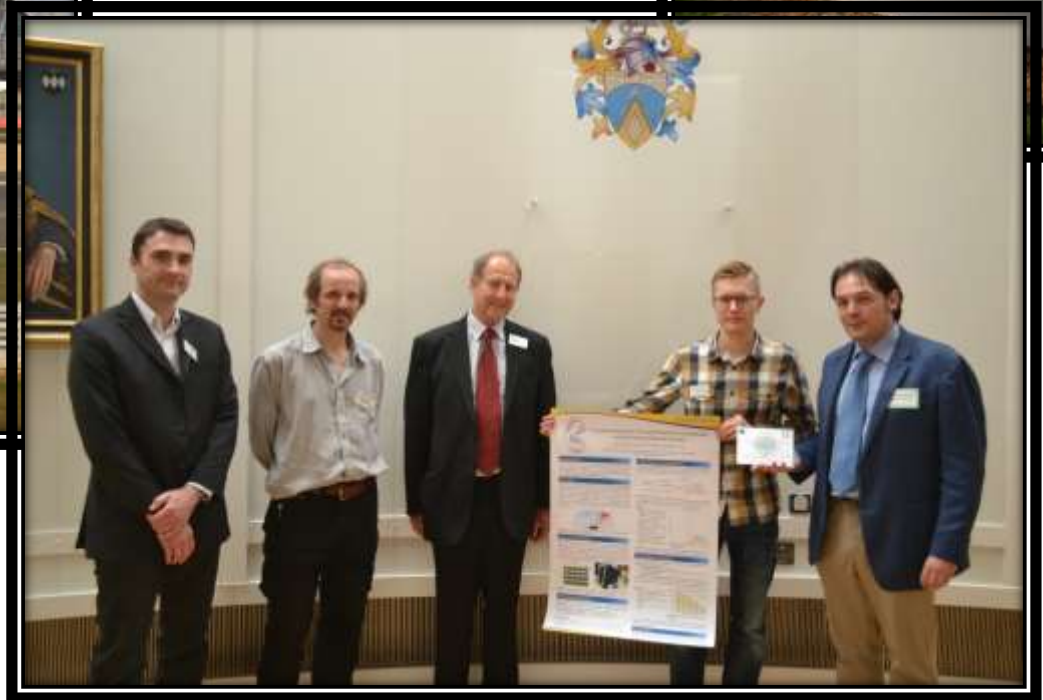


Instrumentation, Analysis & Testing Exhibitions



Seminars and Exhibitions









30 Years

