

~ UTMIS ~
The Swedish Fatigue
Network

Failure mode avoidance
a course arranged by UTMIS
and GMMC

in Göteborg, Sweden 22-23
November 2006



The Swedish Fatigue Network UTMIS was founded in 2000. It is a network with some 31 members from Swedish companies, research institutes and universities; visit the web-site www.utmis.org for a list of all UTMIS members. The UTMIS board acts as a national committee within ESIS, the European Structural Integrity Society.

UTMIS has three regular network meetings every year. Those meetings are arranged as seminars on specific fatigue themes. UTMIS members are invited to share knowledge and experiences made in their daily work. There are also a few collaboration projects, funded by UTMIS, running between UTMIS members. The major event is the workshop arranged by UTMIS every autumn. An internationally well known speaker is invited to give a course on a fatigue topic.

This year the course is also sponsored by GMMC, the Gothenburg Mathematical Modelling Center. In December 2005 the Swedish Foundation for Strategic Research (SSF) decided to fund a proposed new research centre in mathematical modelling at the Department of Mathematical Sciences at Chalmers University of Technology in Gothenburg.

Previous UTMIS Autumn Courses

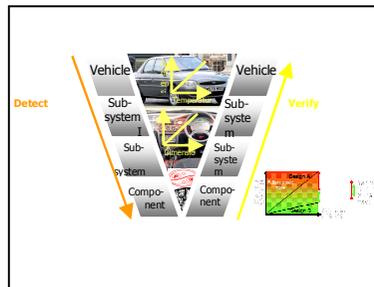
- **2001:** Prof K J Miller, UK *Fracture mechanics and crack propagation*
- **2002:** Prof R Pippin, Austria *Material science for fatigue and fatigue life prediction*
- **2003:** Prof G Cailletaud, France *Stress calculation for fatigue*
- **2004:** Prof Y Murakami, Japan *Metal fatigue – fundamentals and applications*
- **2005:** Prof. M W Brown, UK, *Multiaxial Fatigue.*

Course 2006: Failure Mode Avoidance

This year, Professor Tim Davis, UK, and Professor Bo Bergman, Sweden will give a two day course on *failure mode avoidance*.

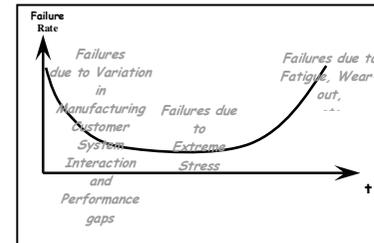
The Tim Davis headlines:

- Introduction to Failure Mode Avoidance
- Failure Modes & Effects Analysis
- Design for Robustness
- Dealing with escaped failure modes
- Standards as the first line of defence



The Bo Bergman headlines:

- Failure mode avoidance in a general quality perspective
- Variation & effects analysis
- Failure modes and reliability
- Reliability and variation
- Creative robust design
- Failure modes and variation in fatigue



Location

The workshop will take place at Fraunhofer Chalmers Research Center for Industrial Mathematics ,

Chalmers Science Park

Sven Hultins gata 9D

Göteborg

www.fcc.chalmers.se

Accommodation

A hotel close to the venue is

Quality hotel Panorama, Eklandagatan 51-53, Göteborg, Tel +46 31 767 70 00, Fax +46 31 767 70 70.

Reduced price can be offered by booking through Annika Eriksson at FCC:

tel. +46 31 772 4287

email: annika.eriksson@fcc.chalmers.se

Course Fee

For non-UTMIS members, the course fee is SEK 4000. It includes participation to the workshop, course material, refreshments at morning and afternoon coffee breaks, two lunches, and dinner Nov 22.

Registration

Send the registration by **31 October, 2005** to

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Tim Davis has worked for Ford Motor Company since 1986. He was appointed a Henry Ford

Technical Fellow in 2001 and is an honorary professor in the Department of

Statistics at the University of Birmingham. He has published

research papers and co-authored with Dan Grove, Engineering Quality and Experimental

Design. Dr Davis is a chartered fellow of the Royal Statistical Society and a member of the ASQ.



Bo Bergman has been appointed Professor of Total Quality Management (SKF

Professorship) at Chalmers since 1999. In 1983, Bo Bergman was appointed Professor of Quality

Technology at Linköping University of Technology, where he

was involved in establishing successful undergraduate and graduate courses in the field of quality. His interest in research

covers a broad spectrum, from the development of statistical methodology to research into the organisational aspects of quality management.



