

**Minutes of the Technical Advisory Board for Mechanical Environments of the
Confederation for European Environmental Engineering Societies
Held on 21st September 2006, Heathrow, United Kingdom**

Present at the Meeting of the Technical Advisory Board for Mechanical Environments (TABME) were;

Dr Ulrich Braunmiller	GUS
Mr Markku Juntunen	KOTEL
Mr. David Richards	SEE (Chairman)
Mr Thomas Trost	SEES

Matters Arising

Apologies were received from Dave Corben (Plot) and Dr Karl Zieghan (GUS). A list of TABME members, including corresponding members, was circulated. As usual this list is attached to the minutes as Attachment No 1.

The chairman reported that Ed Furrer had E-mailed to say he was finally retiring. The TABME wanted to take the opportunity to thank him for his support and the various contributions he had made over the years to the group both directly and indirectly through the GUS.

CEES Website – TABME Content

The chairman reported that much of the information agreed at the last meeting was now on the website. Some further information reminded and that had been placed on CD by the secretariat and circulated to those who attended the CEES main committee..

Systematisation of Measurement Methodologies

STANAG 4370. The chairman reported that a meeting of the NATO Stanag 4370 group was scheduled for the same week as the TABME meeting. The meeting was to finalise the text of version 3 prior to submission to NATO for circulation. The UK DSTAN organisation had converted the text into the correct format for circulation. The group were reminded that the NATO ratification process can take around 2 years. It was mentioned that the group responsible had recommend the Stanag be designated as releasable on the internet.

Mil Std 810G It was reported that various working groups that will generate the new version were currently been formed. A story board of the intended document had been formulated an a series of “pages” were on limited circulation.

Def Stan 00-35. The chairman reported that work on Def Stan 00-35 version 4 was anticipated for publication within a few weeks (chairmans note; this version is now available at dstan.mod.uk). It had been previously reported that the vibration and shock test severities were been revised and that new chapters included on test rigs as well as control strategy. Version 4 would also include a new guidance section on the generation of test programmes and a number of operational usage profiles specifically applicable to environmental life assessment.

IEC TC104. It was reported that a meting of IEC TC104 had occurred in June 2006 at Kista, Sweden. The TC104 meeting was split to allow working groups to occur during the same week. The TC104 meeting was chaired by the new chairman Herman Rouss. The maintenance teams and Working groups 14 and 15 had occurred in parallel with the main meeting. The random vibration, sine vibration and shock tests discussed at the previous TABME had been modified and it was likely that the random vibration test would be re-circulated for comment as a committee draft.

DIN 30786/7/8/9. Ulrich reported that he had taken over as chair of this work. The two mechanical documents (30786 & 7) are complete. The latter document was had been passed for consideration to CEN TC261. Work on the two climatic documents (30788 & 9) was underway.

CEN TC 261 SC5 WG15 – Test Methods & Test Schedules. At the last TABME it was reported that the DIN Std, offered as a PAS to this group, had finally received sufficient votes for work to start on adapting it as a CEN standard. The DIN had also been offered to ISO 122 as a parallel activity for inclusion in ISO 13335 which is scheduled for review in 2006. Thomas updated the group on the revolving drum test which had been discussed at the last meeting. This test was not liked and a decision had been made to remove it. However, a new work item proposal could be made to re-introduce the test.

UN Orange Book. The status of US / Spanish proposal for the inclusion of a vibration test were not known group and no information was available at this meeting.

ISO TC 108. A draft document recently circulated by this group (ISO/DIS 21289) on shock and vibration analysis, was discussed. It was observed that portions of this document were similar to the DIN std discussed earlier and supplied to ISO & CEN as a PAS document. It was agreed that the group would sent comments to the chairman for forwarding to the relevant ISO committee.

ISTA. Thomas Trost reported on the ISTA conference that had been held in the US on aspects relating to package testing. The next meeting will be held in Orlando in 2005 information could be obtained from ISTA.org.

CEN WS 10 (Workshop on Defence Procurement). It was reported that little had occurred in the work of this group since the last TABME meeting. However, the next phase of the work was close to agreement. The expert group topics for the next phase are;

- EG9 Land vehicles (included at request of EDA)
- EG10 Ammunition
- EG11 Paint and Coatings
- EG12 Fluid handling systems
- EG13 Life Cycle management (service life prediction)
- EG14 Life cycle technical documents
- EG15 Portable electrical power supplies
- EG16 Terminology

It was reported that the EDA is now represented at CEN WS 10. The reports of the first 8 Expert Groups are available at www.defense-handbook.org

Overview At a previous meeting the group had generated an overview of European and International work currently underway relating to transportation stresses. That overview was included as an attachment in the minutes of the last meeting. This meeting reviewed and updated the chart. The updated version is include here as attachment No 2. [Chairman's note: It is intended to review this chart on a regular basis.]

Technical Papers - Working Practices

Copies of the methodologies paper were discussed at the last meeting. Following some discussion it was agreed that the a final draft would be put on the website.

Topics for Future Consideration

The members of the TABME had previously identified a number of potential future topics for future consideration;

- Basic techniques for data collection / analysis.
- FDS / MRS - Potential variations between different methods.
- Test tailoring – “How do other people do it?”

Lean testing and / or virtual testing

Life estimation and Extension

Any Other Business

There was no other business.

Next Meeting

The date of the next meeting of the TABME is planned for Thursday 15th February 2007 at Ostend Belgium.

Attachments

- 1 Names and Addresses of TAMBE Members
- 2 An Overview of European and International work

Mr David Richards
Lockheed Martin UK INSYS Ltd
Reddings Wood, Ampthill
Bedfordshire
MK45 2HD
United Kingdom
Phone No: 44 1525 843667
Fax No: 44 1525 405861
E-Mail: daverichards@lineone.net
dave.p.richards@lmco.com

Mr Markku Juntunen
VTT
Otakaari 7B
Espoo
PO Box 1000
FIN-02044 VTT
Finland
Phone No: +358 9 456 6215
Fax No: +358 9 456 5888
E-Mail: markku.juntunen@vtt.fi

Mr Maurice Mergeay
M+P International
Technologielaan 3
B-3001 Leuven
Phone: +32 16 395850
Fax: +32 16 395860
E-Mail: maurice.mergeay.mpibe.be

Dr Ulrich Braunmiller
Fraunhofer-Institut für Chemische Technologie
Joseph-von-Fraunhofer Str 7
D-76327 Pfinztal 1 (Berghausen)
Germany
Phone No: 49 721 4640 116
Fax No: 49 721 4640 516
E-Mail: braunmiller@ict.fhg.de

Mr Ed Furrer
Drusbergstr. 21
CH - 8053 Zurich
Switzerland
Phone No: 41 1381 0826
Fax No: 41 1381 0871
E-Mail: ed.furrer@translab.ch

Mr Marcus B Dumelin
Steinbach Str 29
CH-3123 Belp
Switzerland
Phone No: +41 31819 7470
E-Mail: markus.dumelin@bluewin.ch

Dr.- Ing. Karl-Friedrich Ziegahn
Forschungszentrum Karlsruhe FZK
Postfach 3640
76021 Karlsruhe
Germany
Phone No: 49 7247 82 8590
Fax No: 49 7247 82 3949
E-Mail: kfz@umwelt.fzk.de

Mr Olavi Nevalainen
VTT Industrial Systems
Otakarri 7B, Espoo
PO Box 13071
FIN-02044 VTT
Phone + 358 9456 5642
Fax +358 9456 7042
E Mail olavi.nevalainen@vtt.fi

Mr Kjell Ahlin
Blekinge Institute of Technology
Dept of Mechanical Engineering
SE-371-79 Karlshruna
Sweden
Phone No: 46 708 575094
Fax No: 46
E-Mail: kjell.ahlin@bth.se

Mr Thomas Trost
STFI – Packforsk AB
Mail Box 9
SE-16493 Kista Stockholm
Sweden
Phone No: 46 8 676 7087
Fax No: 46 8 7513889
E-Mail: thomas.trost@stfi.se

Mr G. Ruding
Swedish Environmental Engineering Society
Storgatan 5
Box 5510
114 85 Stockholm
Sweden
Phone No: +46 8782 0887
Fax No: +46 8660 3378
E-Mail: Gunner.ruding@serment.pp.se

Mr Robert Villigers
Mettler Toledo GmbH
Heuwinkel St
CH-8606 Nanikon
Switzerland
Phone No: +41 1 994 24 31
Fax No: +41 1 944 33 10
E-Mail: robert.villiger@mt.com

Mz Camilla Jarlfors
SAAB Bofors Dynamics AB
SE 691 80 Karlskoga
Sweden
Phone No: 46 586 82573
Fax No: 46 586 82370
E-Mail: Camilla.jarlfors@dynamics.saab.se

Mr C Broussy
Pall Corporation
14 Rue des Gaudines
78100 St Germainlaye
France
Phone No: +33 01 30 61 38 01
E-Mail: claude.broussy@wanadoo.fr

Dave Corben
Philips Applied Technologies – Mechatronic
High Tech Campus 7 / Room 1.A.025
5656 AE EINDHOVEN,
The Netherland
Phone No: +31 40 27 48474
Fax No: +31 40 27 46333
E-mail: D.Corben@philips.com

Mr Tom. Geise
J.J. Bos B.V.
Marconistraat 11
2809 PH Gouda
Netherlands
Phone No: 31 182 619 333
Fax No: 31 182 611 770
E-Mail: tongeise@jjbosbv.nl

Mr Aad Van Dorp
Quality Manager
National Aerospace Lab NLR
PO Box 153
8300 AD Emmeloord
Netherlands
Phone No: +31 527 248457
Fax No: +31 527 248210
E-Mail: dorpav@nlr.nl

Mr Ueli Grossen
RUAG Landsystems (Umweltsimulation)
Labor 2
Allmendstasse 86
CH3602 Thun
Phone No: +41 33 228 30 48
Fax No: +41 33 228 30 05
E-Mail: Ueli.grossen@ruag.com

Mr B. Belotti
Belotti Sistemi S.A.S.
Piazza Trento 6
20135 Milano
Italy
Phone No: 39 255308223
Fax No: 39 255303155
E-Mail: mbelotti@iol.it

Mr Eckhard Schneider
SIMTEC
Heiligenroder Strasse 42A
D -288 16 Stuhr
Germany
Phone No: 49 42 06 41 93 60
Fax No: 49 42 06 29 97 28
E-Mail: schneider-eckhard@t-online.de

Mr J Fritz
Astrium Gmbh
81663 Munich
Germany
Phone No: +49 89 607 23604
Fax No: +49 89 607 35187
E-Mail: Josef.fritz@t-online.de

Prof Hakan Torstensson
Hogskolan I Boras
SE 501 90 Boras
Sweden
Phone No: 46 33435 5971
Fax No: 46 33 435 4008
E-Mail: hakan.torstensson@hb.se

Mr Erik Rudolphi
Ingemansson Technology AB
PO Box 47321
SE-10074 Stockholm
Sweden
Phone No: +46 87975780
Fax No: +46 8 182678
E-Mail: erik.rudolphi@ingemansson.se

Mr L Kuschel
SMT & Hybrid gmbh
An der Priessizitzae 22
D -01474 Weissig Dresden
Germany
Phone No: 49 351 266 130
Fax No: 49 3571 266 1310
E-Mail: Lutz.kuschel@smt-hybrid.de

Mr Goran Jansson
Bofors Test Centre AB
PO Box 418
SE 69127 Karlskoga
Sweden
Phone No: 46 586 84508
Fax No: 46 586 84085
E-Mail: goran.jansson@testcentre.se

Mr Kenth Sjoberg
SAAB Bofors Test Centre AB
Box 418
SE 69127 Karlskoga
Sweden
Phone No: 46 58684508
Fax No: 46 58684085
E-Mail: kenth.sjoberg@testcentre.se

Mr Rickard Hansson
SAAB Bofors Test Centre AB
BOX 418
SE 69127 Karlskoga
Sweden
Phone No: 46 58684058
Fax No: 46 58684016
E-Mail: rickard.hansson@testcentre.se

Mr Jouni Siren
SAAB Bofors Dynamics AB
SE 69180 Karlskoga
Sweden
Phone No: 46 58682937
Fax No: 46 58682370
E-Mail: jouni.siren@dynamics.saab.se

An Overview of European and International work

Group / Standard	Connection with CEEES Working Group	Other Connections
ISO – TC 108 wg 26 &27		Kjell Ahlin
ISO – TC 122	Thomas Trost	
ISO - Railway		
IEC TC 104	David Richards Aad Van Dorp Markus Dumelin Markku Juntunen	
CEN TC 261	Ulrich Braunmiller Thomas Trost	
CEN TC 320 Transportation Services		Soren Ostergaard
DIN 30787 NAVP 1.4	Ulrich Braunmiller Karl Zieghan	Ed Furrer
BSI	David Richards	
UN Orange Book		
Mil Std 810		Skip Connon
Nato Standard - AC310		David Richards
Nato Standard - AC301	Markus Dumelin	Peter van Harmelen David Richards
Nato Standard - ITOPS		
CEN Workshop Agreement Defence Procurement WS10	Karl Zieghan	David Richards Goran Jansson Markku Juntunen
IEC Railways		Odd Sylwan