

**Minutes of the Transport Stresses Working Group of the
Committee for European Environmental Engineering Societies
Held on 21st September 1995 at Hotel Sofitel Paris**

Present at the Meeting of the Transportation Stresses Working Group (TSWG) were;

Mr K. Ahlin	SEES
Dr. U. Braunmiller	GUS
Mr. M. Dumelin	SSEE
Mr. R. Finger	SSEE
Mr. E. Furrer	GUS
Mr. C. Lalanne	ASTE
Mr. J. Moriceau	ASTE
Mr. D. Richards	SEE (Chairman)
Mr. G. Ruding	SEES
Mr. T. Trost	SEES
Dr K. Ziegahn	GUS

Actions Arising

The meeting welcomed Kjell Ahlin, Gunner Ruding and Jacques Moriceau to the meeting.

The meeting expressed its sadness at the death of Karl-Heinz Hansen who had been an active member of the TSWG.

A list of TSWG members, including corresponding members, was circulated. This is attached to the minutes.

Bibliography

The original bibliography has now been distributed to the various societies. Thomas Trost reiterated that he would undertake collate any new references relating to transportation stresses.

Systematisation of Measurement Methodologies

A number of aspects were addressed under this heading.

CEN/TC 261 WG. Ulrich Braunmiller reported that the CEN/TC 261 Working Group had met the previous week. It had concentrated on the "Rotational Drop" and Clamed Track" tests. It had not addressed the vibration test (discussed at previous meetings of the TSWG) for over a year. Karl Ziegahn reported that the EU had now mandated the CEN to develop standards which would permit the introduction of the EU directive on packaging waste. This had effectively resulted in a schedule for these tests.

CEN/TC/320 WG (Transport Quality). Karl Ziegahn reported that the working group had not progressed the two (conflicting) proposals made some time ago (discussed at the last TSWG). He believed that the apparent inactivity would end now that the EU mandate had been issued.

ISO TC 108/SC2/WG16. Kjell Ahlin reported that he was now the chairman of the WG. The tasks of the WG are to revise ISO 8569 (Vibration Severity for Equipment in Buildings) and to set standardised ways of classifying the vibration environment. Kjell explained the relationship between IEC 68, IEC 721 and the real environment. He indicated the need for advice in getting from the real environment to IEC 721, and from the environments of that document to the tests of IEC 68.

DIN 30787. Ed Furrer reported on the progress of this DIN standard. The framework of 30787 and its relationship with 30782, 30786, 30788 and 30789 was illustrated by Ed (and attached to these minutes). He indicated that 30782, 30787 Part 2 plus Annex A and its supplements were now DIN “yellow” pages. Part 3 “Data Validation and Editing” was in draft.

Mil Std 810F. Marcus Dumelin reported that he had received the 15th July 1995 draft of the vibration test. However, it had not been seen by any other TSWG members. He undertook to send a copy to the chairman who would circulate it with the minutes. A brief discussion took place on the bounce test with Jacques Moriceau indicating the status of the equivalent test in STANAG 4370.

Technical Documents. The Chairman thanked Christiane Lalanne for the document “Mechanical Environment Test Specification Development Methods” which was circulated with the minutes of the last TSWG.

Presentation. Rolf Finger stated that some questions had arisen (in the SSEE) with regard data frequency range of work presented (by Marcus Dumelin) at the last TSWG. Work was planned by the SSEE to verify their results over a broader frequency range. He indicated it may be possible to present these results at the next meeting of the TSWG.

Round Robin Exercise

Some discussion took place at the last meeting of the TSWG with regard the possibility of another round robin exercise. That meeting addressed three broad concepts which were summarised in the minutes of that meeting.

Ulrich Braunmiller made a proposal based on a suggestion by Karl-Heinz Hansen at the last meeting. The proposal essentially encompassed all three concepts discussed at the last meeting. Some discussion took place on Ulrichs proposal, mainly associated with the detail of how it would work. Rather than attempt to resolve all the details at the meeting it was decided that Ulrich, Ed Furrer and the chairman would agree a programme. This would be circulated to all members of the TSWG.

Broadly the exercise was envisaged as being simpler than the previous round robin. Its intent is to allow the variations identified in the previous exercise to be further investigated and is also partly intended as a “training” exercise. The provisional intent is to supply participants with three data files, (probably on a PC floppy disc) the first containing a simple piece of random data onto which a simple shock is superimposed, the other two data items would contain progressively more complicated vibrations and shocks. The exercise could be repeated two or three times permitting the participants to embrace improved methods and techniques.

Transportation Stresses Workshop.

A proposal had been made at the last CEEES meeting to hold a workshop on transportation stresses. Karl Ziegahn had proposed an agenda for the meeting. He outlined his proposals which were discussed for some time. Overall the meeting felt that the proposed programme was technically sound and endorsed it for the following days CEEES meeting.

As a precursor to the discussion Karl made a brief presentation on the need for transportation research a copy of the VU-foils he used in that presentation are attached to the minutes.

Any Other Business

Thomas Trost said that abstracts for the 1996 annual meeting of the Institute of Environmental Sciences were required as soon as possible.

Next Meeting

The date of the next meeting of the TSWG was not known at the meeting.

Enclosures

1. Names and Addresses of TSWG Members
2. Format of DIN 30787 From Ed Furrer
3. Draft of Vibration Chapter of Mil Std 810F from Marcus Dumelin
4. "Why Transport Research" from Karl Ziegahn

Distribution (including enclosures unless stated)

Mr K. Ahlin
Dr. U. Braunmiller
Mr B. Bootle less draft of Mil Std 810F
Mr D. Charles less draft of Mil Std 810F
Mr. J. Debille
Mr. M. Dumelin less draft of Mil Std 810F
Mr. R. Finger
Mr P. Frostell
Mr. E. Furrer
Mr K. Janousky
Mr H. Jansen
Mr C. Karsberg
Mr. C. Lalanne
Mr J. Moriceau
Mr. D. Richards less draft of Mil Std 810F
Mr G. Rudding
Mr T. Schreiber
Mr H. Torstensson
Mr. T. Trost
Dr. K. Ziegahn
plus CEEES Secretariat less draft of Mil Std 810F