

**Minutes of the Transport Stresses Working Group of the
Committee for European Environmental Engineering Societies
Held on 24th September 1998 at the Hotel Sofitel, Bordeaux Le Lac, France**

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

Mr K. Ahlin	SEES
Mr J. Antoni	ASTE
Mr C. Broussy	ASTE
Dr P. Dehombreux	BSMEE
Mr. M. Dumelin	SSEE
Mr R. Finger	SSEE
Mr. M. Juntunen	SEEF
Mr T. Locquette	ASTE
Mr T. Matter	ASTE
Mr. D. Richards	SEE (Chairman)
Mr T. Trost	SEES
Dr K. Zieghan	GUS

Matters Arising

The meeting welcomed Mr Jean Antoni, Mr Claude Broussy, Mr T Locquette and Mr Thomas Matter from ASTE from SSEE. Apologies Dr. U. Braunmiller and Mr J. Moriceau.

A list of TSWG members, including corresponding members, was circulated. This list is attached to the minutes as Attachment No 1.

Systematisation of Measurement Methodologies

CEN TC 261 SC 1 WG4. (Generalities - Test Methods and Schedules) Thomas Trost reported that there was no meeting of this committee since the last meeting of the TSWG and nothing to report.

CEN TC 320 (Transport Quality). Karl-Freidrich Ziegahn reported that the draft standard was at the voting stage. Karl believed that both the UK and Germany had voted "no" to this standard. A meeting is scheduled for October to review the comments. Karl reported that Soren Ostergard the convenor had sent his regards to CEEES.

CEN TC104. Both David Richards and Kjell Ahlin reported on the recent TC 104 meeting. The chairman reported that one of the new working groups created (WG 15) was to establish databases on dynamic environments including transport. A group was also formed to look specifically at problems associated with testing "soft" packages. This latter work is to be lead by Sweden.

DIN 30787. Karl reported that no meeting had occurred for some time. However, Ed Furrer continues to work on the drafts of DIN 30787 parts 2, 3 and 4. The Chairman suggested the DIN 30787 may have applicability to the CEN TC 104 WG 15 work.

SRETS. Thomas Trost reported on the progress of the SRETS work. ;

Task 1 Identification of Damage Inducing Mechanisms. The report is now complete and has been printed as an EU report, available at Packforsk and the EU.

Task 2 Environmental Data. The measurements at PIRA/ J& B as well as Bosch are completed. A task report is in preparation, publication to be cleared.

Task 3 Methodological Strategies. The analysis and task report are complete.

Task 4 Testing Schedules Replicating the Damage Mechanisms of the Environment. Work and the task report are nearing completion.

Task 5 Effects of Practical Testing Limitations. The task report is in preparation.

Task 6 Comparison of Test Schedules with Field Trials. The task report is in preparation..

Task 7 Practical Evaluation of the Test Schedules. This final task is underway.

ISO WD 8569/10811 Kjell made a short presentation on work, on Response Equivalent Velocity Spectra, he had undertaken for this ISO group to establish the vibration severities in buildings. The method that had been derived is to be presented in a ISO technical report and will be transferred to a standard within 3 years.

Mil Std 810F Karl reported that at the last annual technical meeting of the IEST the “final” draft of Mil Std 810F had been circulated on CD Rom. He also indicated that the second edition of STANAG 4370 had been issued (Chairmans note: I have a copy of this). He also indicated a new STANAG on rail shock.

Technical Papers. Karl brought to the groups notice an interesting paper entitled “Damage Boundary of a Packaging System Under Rectangular Pulse Excitation” by Wang, Wu and Xi published in Packaging Technology and Science (No 11, P 189-202, 1998).

Monograph on Round Robin Methodologies. The chairman apologised that this was not yet complete. More work was involved that had been originally envisaged. In addition permission would need to be sought from the IEST to reproduce two of the papers. Work continues on this topic.

Round Robin Exercise

Preliminary results of the second round robin (RR) were circulated to the meeting. The discussion that followed included;

Marcus Dumelin said that since the last meeting he had generated a computer program to identify the shocks from the random vibration. However, it did not work very well when the data had a mean offset. A meeting of the SSEE had been arranged to discuss this

Kjell Ahlin explained his approach for determining whether a shock was required.

Karl Ziegahn asked whether the outcome of the RR could be used in training courses i.e. as a test article for students. Karl agreed to consider this.

Marcus Dumelin and Rolf Finger suggested we need to further address the results of the two round robin exercises. In particular with regard the selection of methods. The chairman agreed that a comparison of the results of the second exercise would be compiled by the next meeting.

Karl Ziegahn suggested that we need two page conclusion of the first exercise. The chairman suggested that the paper on the methods of the first round robin could be circulated before the next meeting.

Kjell Ahlin said that a round robin was underway in Sweden which circulates a “black box” with nine different signals.

Presentations on Transportation Recorders

Thomas Trost and David Richards made presentations on the use and problems associated with the use of solid state digital recorders in the measurement of the transportation environment. This resulted in some discussion.

Any Other Business

Markku Juntunen give the meeting an update on the Finnish work on “Design of Equipment for Mechanical Environments”. A handbook is to be issued next year based on the results of this work. The next project will be on the Acceptance Criteria for Vibrational Excited Mechanical Components.

Election of Working Group Chairman

The current chairman of the working group was re-elected for a further two years.

Next Meeting

The date of the next meeting of the TSWG is provisionally planned for Brussels in February 1999.

Attachments

1. Names and Addresses of TSWG Members

Distribution

Mr K. Ahlin
Mr J. Antoni
Mr M. Belotti
Dr. U. Braunmiller
Mr C. Broussy
Dr P. Dehombreux
Mr. M. Dumelin
Mr. R. Finger
Mr. E. Furrer
Mr T Geise
Mr. T. Hell
Mr H. Jansen
Mr. M. Juntunen
Mr C. Karsberg
Mr L. Kushel
Mr E. Klæui
Mr. C. Lalanne
Mr T. Locquette
Mr J. Moriceau
Mr T. Matter
Mr P. Najdenov
Mr. D. Richards
Mr G. Ruding
Mr J. Seller
Mr T. Schreiber
Mr H. Torstensson
Mr. T. Trost
Mr. B. Wouters
Dr. K. Ziegahn
plus CEEES Secretariat

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Attachment 1
Names and Addresses of TSWG Members