

**Minutes of the Transportation Stresses Working Party
of the Committee of European Environmental Engineering Societies
Hotel Spiritka - Prague - 23rd September 1993**

Present at the meeting were

Mr C. Lalanne	ASTE
Mr U. Braunmiller	GUS
Dr K. Ziegahn	GUS
Mr B. Wouters	SSEE
Mr U. Ostblad	SEES
Mr T. Trost	SEES
Mr K. Janousky	NACEI
Mr P. Frostell	SEEF
Mr M. Dumelin (part time)	SSEE
Mr D. Richards (Chairman)	SEE

Actions and Matters Arising From Previous Meeting

As the actions from the previous meeting in Brussels all related to on-going subjects they were addressed at the appropriate agenda item.

Bibliography

Prior to the meeting Haken Torstensson had sent a statement (in response to a Fax from the chairman) on the status of the Bibliography. Haken also set out his opinion on the viability of further enhancing the bibliography still further. Haken's response is as follows.

"I was just working on the bibliography, when you faxed, because Ed Furrer has sent in a substantial contribution to it, for the future I believe we should work along the following lines.

- a. The present bibliography (Prague meeting version) may not be complete but contains so much information that it could be issued formally as a CEEES publication.
- b. To include abstracts would mean tedious work and a volumous list. I think that it is easier to get abstracts from a scientific library, knowing the author and the papers title.
- c. Up-dating via the members has not proven effective. If some members (like the National Testing and Research Institute) should undertake to scan the literature for new and possibly overlooked possible additions to the bibliography it would require financing. The matter will have to be discussed at Prague."

At this point some discussion took place on the way ahead for the bibliography. The meeting concurred that the bibliography should be circulated. A number of aspects relating to that circulation were noted, these were;

- i. The document should be allocated an official CEEES reference. At the main CEEES meeting on the 24th September it was agreed that the CEEES secretary would generate and maintain a documentation numbering system. Action: CEEES Secretary
- ii. If possible an ISBN number should be obtained for the document. Karl Frederick agreed to arrange this at the appropriate time. Action: Karl Ziegahn.

iii. A forward/ preface needs to be written setting out the objectives and participants in CEEES. It was thought that Haken Torstensson would be the appropriate person to write this, but if not the chairman volunteered to do so. Action (in his absence): Haken Torstensson

iii. The document should be copyright to either National Testing and Research Institute or SEES. Again it was thought Haken Torstensson would be the appropriate person to arrange this. Action (in his absence): Haken Torstensson

A lengthy discussion ensued on approaches that could be used for publishing the document. The most viable were tabled before the main CEEES committee on the 24th September. These consisted of

i. The document be copied and distributed by each of the CEEES participating societies to its own members. The advantage of this approach is that it could be accomplished cheaply and the cost would be spread across all participating societies. The disadvantage is that the quality of the publication would inevitably vary from society to society and the quality would probably only be modest. A minority view of the meeting was that Bibliography was unlikely to be widely purchased. However, if it could be distributed cheaply & widely it could be used to publicise the work of CEEES in the member societies.

ii. The "lead" society for the document (in this case SEES) should arranging printing/copying of the document, it would then be distributed by each society. The advantage of this approach is that a better quality document would probably result and be in a consistent format. However, it could result in some cost to the "lead" society which may have to be recouped by making a charge for the document. The main meeting of CEEES opted for this option. Thomas Trost offered to determine the cost of publishing the document using his companies facilities. Action: Thomas Trost.

iii. CEEES arrange printing/copying of the document, but with distribution by each society. This was felt to be the preferred approach but would almost certainly be the most difficult to achieve. It would probably mean that a charge for the document would have to be made. The CEEES meeting did not like this approach mainly because it did not have the money to arrange printing. Regardless of this the view of many members of the Transportation Stresses Working Party was that this approach should not be discounted for all future documents, particularly those that may be widely requested within the member societies.

Systematisation of Measurement Methodologies

The chairman admitted that although this item had appeared on the agenda of several previous meetings he did not really understand its scope or intent.

At the previous meeting Rolf Finger had presented some preliminary results from work underway by the SSEE to determine environmental descriptions of transportation vibration conditions from "intermittent" measurements. Unfortunately, failure of the overhead projector at a crucial stage in the presentation had resulted in a discussion which probably prevented him from setting out the work in its proper context. The chairman asked whether this work was continuing within SSEE and was informed that it was. He expressed the view that, whilst, a number of technical issues may still need to be resolved, the approach had (on reflection) a number of clear advantages. It was hoped that the SSEE would be in a position to present further information on this work in the future.

At the previous meeting the chairman had taken an action to prepare a description of the various analysis methods used by the participants in the round robin exercise. However, perusal of the various methods had indicated that to do justice to these methods a fairly extensive document would be required. As a consequence a suggestion was tabled that a tutorial be assembled on the various methods in current use (along the lines of the IES tutorials). Following the meeting some discussions on this topic indicated that sufficient contributions were available to permit this to go ahead. Interest has been expressed by Christian Lallane (ASTE) {who subsequently supplied a

suitable paper to the chairman}, Darrel Charles (SEE) and the chairman. Whilst these papers are sufficient to form the "core" of such a document, additional contributions are still requested (particularly from SEES and particularly Thomas Svensson).

Round Robin Exercise

Although the final report is still outstanding (for which the Chairman apologised) the work was essentially complete. The work had been presented at the IES meeting earlier in the year and subsequently published in the Journal of the IES. A shortened version of the IES paper had been submitted to the Journal of the SEE. Copies of this (on magnetic disc) were supplied to representatives of each society for what ever use they wanted to make of it. After the meeting a request was made (by ASTE) for some of the round robin data. This information is stored on a PC in the form of Microsoft Excel spreadsheets and charts. Whilst, the data can be relatively easily supplied, it is extensive (around 20Mb). ASTE agreed to supply a list of their requirements.

A short discussion took place on the viability of another round robin exercise particularly concentrating on shock aspects. A number of actions were placed relating to this aspect;

- i. All members were asked to identify whether such an exercise was likely to be of interest within there society.
- ii. The chairman was to determine whether suitable data could be assembled on to tape. {Subsequent discussions with Cranfield University indicated that sufficient data existed in their database and that it could be supplied either in analogue form or digitally on PC disc}
- iii. After the meeting it was brought to the chairman's attention (by Henri Grzeskowiak) that the IES had recently completed a similar exercise. Both the Chairman and Henri agreed to look into this. Action David Richards

Brite-Euram Proposal

The meeting was informed that the latest attempt at obtaining EC funding had not been successful. Some discussion took place on the consensus report received on the proposal from the EC.

IES Handbook on Shock & Vibration

This action was originally placed on Markus Dumelin. Although only a part-time attendee at the transportation stresses meeting, Markus indicated that the IES had circulated a number of documents (Glossary of terms and working practices) for comment. These had been further circulated within CEEES by Markus. He had already received responses and proposed forwarding these to the IES.

Any Other Business

Under the auspices of any other business a fairly lengthy discussions took place on three specific subjects.

Transportation Stresses Workshop. Some discussion took place on the viability and practicality of arranging a workshop on transportation stresses, in conjunction with the EC, at the next Brussels meeting. Similar discussions also took place at the main CEEES meeting the following day. In reality the meeting of the transportation stresses working party could accomplish little until the appropriate EC representatives were identified (a task been undertaken by the GUS). It has subsequently transpired that difficulties in identifying suitable EC representatives have prevented arranging a workshop for the 1994 Brussels meeting.

CEN/TC 261. Ulrich Braunmiller, assisted by Thomas Trost explained the background Status of ISO 2247 & 8318 on transportation. In particular they explained the background to the current

severities and their current concerns on the vibration severities proposed in those documents. Both Ulrich and Thomas explained that it is likely, contrary to normal practice, that both CEN & ISO will have groups working towards generating similar standards. Both Thomas and Ulrich were scheduled to attend a meeting CEN/TC 261 a few weeks after the CEEES meeting.

BTS6. Karl Ziegahn expanded a topic he had raised at the previous meeting. Specifically the GUS had set up a number of working groups to "shadow" various CEN groups. However, they had found that the GUS had set up a an interdisciplinary group on transportation performance which did not exist as a CEN group. Karl felt that not only was such a group necessary but it aims would be essentially that of the CEEES transportation stresses working group. Karl suggested that each society should try and identify their nation representative and attempt to lobby for such a CEN group.

David Richards
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Distribution

Mr U. Braunmiller	GUS
Mr M. Dumelin	SSEE
Mr R. Finger	SSEE
Mr P. Frostell	SEEF
Mr H Grzeskowiak	ASTE
Mr K.H. Hansen	GUS
Mr K. Janousky	NACEI
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