

ISO/TC 43 "ACOUSTICS"

Secretariat: DS

DRAFT REPORT

of the 33rd plenary meeting of ISO/TC 43 "Acoustics"

2008-05-30 in Borås, Sweden

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ADOPTED AGENDA

33rd plenary meeting of ISO/TC 43 "Acoustics"

2008-05-30 in Borås, Sweden

at SP Technical Research Institute of Sweden
Brinellgatan 4
504 62 BORÅS
Sweden

1. Opening of the meeting (immediately after the SC 1 meeting)
2. Roll call of delegates
Doc. ISO/TC 43 N 1105
3. Adoption of the agenda
Doc. ISO/TC 43 N 1092, N 1102, N 1103
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 - 10.2.2 ISO 389-7:2005 "Acoustics – Reference zero for the calibration of audiometric equipment – Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions"
- 11. Reports from working groups
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 - 11.2 WG 8 – Test methods for the qualification of free-field environments
 - 11.3 WG 9 – Method for calculating loudness level
- 12. Disbanding of working groups
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- 14. Work items on which no progress is being made – Status and action to be taken
- 15. Review of preliminary work items
- 16. Requirements concerning a subsequent meeting
- 17. Any other business
- 18. Approval of resolutions
- 19. Closing of the meeting

LIST OF DELEGATES**33rd plenary meeting of ISO/TC 43 "Acoustics"****2008-05-30 in Borås, Sweden**

Chairman	Mr Hans Jonasson, Sweden	
Secretary	Mr Leif Nielsen, Denmark	
ISO/CS	Mr Franck Perrad	
<u>P-members</u>		
Australia	Mr Warwick Williams	Head of delegation
Canada	Mr Stephen E. Keith	Head of delegation
Denmark	Mr Douglas Manvell	Head of delegation
France	Mr Jean R. Jacques Ms Sylviane Bouvenot Mr Louis Juillé	Head of delegation
Germany	Mr Lothar Schmidt Mr Thomas Fedtke Mr Gerhard Hübner Mr Hans-Joachim Kornprobst Mr Volker Wittstock	Head of delegation
Japan	Mr Hideki Tachibana Mr Ikuo Kimizuka Mr Kenji Kurakata Mr Yöiti Suzuki Mr Akio Takanashi	Head of delegation
Netherlands	Mr Foort de Roo Mr Hendrik van Arkel Mr Pieter I.J. van der Weele	Head of delegation
Norway	Mr Tor Erik Vigran Mr Einar Laukli Ms Iiris Turunen-Rindel	Head of delegation
Sweden	Mr Östen Axelsson	Head of delegation
United Kingdom	Mr Bernard Berry	Head of delegation
USA	Mr Paul Schomer Mr Douglas Moore Mr William Murphy Ms Laura Ann Wilber	Head of delegation

ISO/TC 43/SC 2 Mr Michael Schmitt
 Mr Werner Scholl

IEC/TC 29 Mr Leif Nielsen

Secretariat Ms Liselotte Sørensen

P-members not present

Austria
Belgium
China
Czech Republic
Finland
Hungary
Italy
Kenya
Korea, Republic of
New Zealand
Russian Federation
South Africa
Spain
Switzerland

DRAFT REPORT

of the 33rd meeting of ISO/TC 43 "Acoustics"

held on 2008-05-30 in Borås, Sweden

1 Opening of the meeting

The meeting was opened by the chairman.

2 Roll call of delegates

A list of delegates notified to the secretariat before the meeting was given in doc. 43 N 1105. The secretariat called the roll of delegates. The list of those attending is included in this report.

3 Adoption of the agenda

A notice of meeting and draft agenda, doc. 43 N 1092, had been circulated by the secretariat on 2008-02-29 and a first revised draft agenda, doc. 43 N 1102, had been circulated on 2008-05-16.

One of the changes in relation to the first draft agenda was removal of the decision on review of ISO 11904-1, ISO 11904-2 and ISO 8201 because the review enquiry results had showed overwhelming support for confirmation. The Netherlands had put forward comments during the review enquiry on ISO 8201, however, as no proposal was given, the secretariat had suggested to confirm ISO 8201 by correspondence, and the item had thus been removed from the draft agenda.

However, after consultation with the Dutch delegation, decision on review of ISO 8201 had been re-introduced as item 10.2.3 on the agenda.

A second revised draft agenda with this addition, doc. 43 N 1103, was tabled and adopted.

The adopted agenda is included in this report.

4 Appointment of the drafting committee

Mr Berry, United Kingdom, and Ms Bouvenot, France, were appointed members of the drafting committee to assist the secretariat in preparing the draft resolutions.

5 Election of chairmen

The chairman mentioned that as already informed at the TC 43/SC 1 meeting, he had been nominated chairman of TC 43. However, as the chairmen of both TC 43/SC 1 and TC 43/SC 2 had resigned, new chairmen were needed for these committees. SC chairmen are elected by the main TC.

5.1 ISO/TC 43/SC 1 "Noise"

As already announced at the TC 43/SC 1 meeting the secretariat pointed at Mr Jonasson, Sweden, as chairman of TC 43/SC 1 for a six year term. This was supported with applause. Resolution 1 was taken.

Action: ISO Central Secretariat

5.2 ISO/TC 43/SC 2 "Building acoustics"

The chairman informed that the present chairman of TC 43/SC 2, Mr Scholl, wished to resign after the meetings in Borås. At the TC 43/SC 2 meeting it was proposed to nominate Mr Kornadt, Germany. Unfortunately, Mr Kornadt could not stay until the TC 43 meeting, but the TC 43/SC 2 secretary presented his curriculum vitae. The appointment of Mr Kornadt as new chairman of TC 43/SC 2 for a six year term was supported with applause. Resolution 2 was taken.

Action: ISO Central Secretariat

6 Report of the secretariat

As all of the administrative matters had been dealt with at the TC 43/SC 1 meeting, including general information from the ISO/CS, the secretariat only briefly presented its report given in doc. N 1098.

Concerning membership of TC 43, Belarus had become O-member.

It was noted that since the last meeting, 2 International Standards had been published. 3 FDISes, 1 DIS and 1 CD had been circulated.

All resolutions taken at the previous meeting had been acted upon.

The secretariat report was approved.

7 Business Plan

The secretariat recalled that at the TC 43 meeting in 2005 in Mississauga, much time had been devoted to the Business Plan, and new clauses for the operation of the work of TC 43 had been introduced.

In view of these new issues an updated Business Plan had been circulated for approval in TC 43 as doc. N 1061Corr. Comments on doc. 43 N 1061Corr, given in doc. 43 N 1079, were discussed at the TC 43 meeting in 2006 in Madrid.

Business Plans must be reviewed at each meeting, so an updated version, doc. 43 N 1099, including the corrections agreed upon at the Madrid meeting had been circulated to TC 43 on 2008-05-14. Member bodies had been invited to forward comments, but no comments had been received.

The secretariat informed that the former chairman, Mr Brinkmann, had offered to continue his assistance in checking the consistency of documents with the basic standards and policies of TC 43, which – by experience – has been a very good support to the secretariat. This had been discussed at the Advisory Panel meeting and it was proposed to specifically include a registration of Mr Brinkmann as technical consultant attached to the secretariat under item 5.3 in the Operating Plan.

SECRETARIAT NOTE: The Advisory Panel had recommended also to include a policy for preliminary work items stating that if no progress had been registered on a preliminary work item after two meetings, it should be deleted. This was not mentioned at the TC 43 meeting but will be proposed in a revised version of the Business Plan to be circulated for approval after the meeting.

Some further minor errors were pointed out. The chairman concluded that the Business Plan, given in doc. 43 N 1099, was approved with amendments agreed at the meeting. Resolution 3 was taken.

Action: Secretariat

8 Presentation of proposals for future work

No proposals for future work had been received.

9 Consideration of committee drafts which have been circulated for comments

9.1 ISO/CD 8253-1 "Acoustics – Audiometric test methods – Part 1: Basic pure-tone air and bone conduction threshold audiometry"

A first CD 8253-1, doc. 43 N 1087, had been circulated for comments by 2007-06-15. The comments were given in doc. 43 N 1089. A second CD 8253-1 had been prepared by WG 1 at its meeting in Borås and was tabled as doc. 43 N 1104.

The convenor of WG 1, Mr Laukli, Norway, presented doc. 43 N 1104, which was an amalgamated revision of ISO 8253-1 and ISO 6189. Not many comments had been put forward on the first CD but a new annex on uncertainties had been introduced. There were no further comments at the meeting, so the chairman concluded that doc. 43 N 1104 was approved for circulation as a DIS. Resolution 4 was taken.

Action: Secretariat

10 Reviews

10.1 Decision on reviews from 2008

The secretariat recalled that as mentioned at the TC 43/SC 1 meeting, ISO made had made changes to review rules so that the first review is initiated 3 years after publication and then every 5 years. Further, ISO is now launching the review enquiries on a quarterly basis.

The first batch of standards up for review in 2008 terminated in March. Some of the standards were confirmed by correspondence, so they had been removed from the agenda. The rest needed more attention, and decisions had, therefore, been deferred to be taken at this meeting.

The chairman reminded that if an item was approved for revision, a project leader had to be appointed, and as for NWIPs, a firm commitment to participate from minimum five countries should be observed.

10.1.1 ISO 266:1997 "Acoustics – Preferred frequencies"

The result of the review enquiry on ISO 266 was given in doc. 43 N 1093. The result showed 0 votes for withdrawal, 1 for revision and 16 for confirmation. Comments had been put forward by two member bodies proposing deletion of the use of base-2 frequency.

The German delegation pointed out, however, that the recent draft for IEC 61260-1 actually refers normatively to the base-2 system so at the moment it would still be needed. The chairman, therefore, concluded that ISO 266 should be confirmed. Resolution 5 was taken.

Action: Secretariat

10.1.2 ISO 8253-2:1992 "Acoustics – Audiometric test methods – Part 2: Sound field audiometry with pure tone and narrow-band test signals"

The result of the review enquiry on ISO 8253-2 was given in doc. 43 N 1094. The result showed 0 votes for withdrawal, 0 for revision and 17 for confirmation but USA had submitted a number of mainly editorial comments and questions.

WG 1 had been asked to consider the result and to make a recommendation. The convenor of WG 1, Mr Laukli, Norway, reported that WG 1 recommended to incorporate the proposed editorial corrections in the easiest possible way. The representative of the ISO Central Secretariat informed that actually, a procedure exists, which is not described in the Directives, to circulate an editorial revision directly for FDIS voting.

This seemed to an appropriate procedure in this case, and the chairman, therefore, concluded that ISO 8253-2 should be revised, allocated to WG 1 with Mr Laukli as project leader. The revised document should proceed directly for FDIS circulation. Resolution 6 was taken.

Action: Secretariat

10.1.3 ISO 8201:1997 "Acoustics – Audible emergency evacuation signal"

The result of the review enquiry on ISO 8201 was given in doc. 43 N 1095. The result showed 1 vote for withdrawal, 1 for revision and 14 for confirmation.

As mentioned under approval of the draft agenda, the item had been re-instated on the agenda because of the Dutch comments on the review enquiry. The Dutch delegation explained that actually, they had little experience, however, according to their information ISO 8201 does not reflect current practice, so if it should remain in existence it should be updated, and they further proposed to ask TC 21/SC 3 "Equipment for fire protection and fire fighting/Fire detection and alarm systems" for advice.

The US delegation recalled that the preparation of ISO 8201 had been initiated by USA. The main content of ISO 8201 was the time pattern, however, the one given in ISO 8201 had never really got around the world and USA was actually in the process of withdrawing their corresponding national standard. They, therefore, recommended to withdraw ISO 8201 or to turn it over to TC 21/SC 3.

The Norwegian delegation supported the concern of the Netherlands, however, they had implemented ISO 8201 as a national standard.

As result of the discussion the chairman concluded that ISO 8201 should be confirmed at present and that TC 21/SC 3 should be asked to take over the responsibility. Resolution 7 was taken.

Action: Secretariat

10.2 Consideration of ongoing reviews in 2008

The last review batch for 2008 is out for ballot with a deadline in September.

Thus, no formal decisions could be taken at the meeting in Borås, and the intention was not to go thoroughly into this item but just to take the occasion to discuss any of the standards that might require special attention.

10.2.1 ISO 226:2003 "Acoustics – Normal equal-loudness-level contours"

ISO 226 had been prepared by WG 1. The convenor of WG 1, Mr Laukli, Norway, reported that WG 1 recommended to confirm ISO 226. However, a possible technical revision of ISO 226 should be considered when new data are available.

10.2.3 ISO 389-7:2005 "Acoustics – Reference zero for the calibration of audiometric equipment – Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions"

ISO 389-7 had also been prepared by WG 1. The convenor of WG 1, Mr Laukli, Norway, reported that it had been proposed to add data for higher levels, however, this gave rise to an ethical question because it could involve a risk for hearing damage. WG 1, therefore, recommended at the moment to foresee a confirmation.

11 Reports from working groups

The written reports from the working groups were given in doc. N 1100 with Attachment A and Attachment B, and a list of appointed working group members was given in doc. N 1101.

For information on full titles in the following, reference is given to the secretariat's report, doc. N 1098.

10.1 WG 1 – Threshold of hearing

WG 1 had met in Borås and the convenor, Mr Laukli, Norway, reported on the following:

DIS 389-9

As result of the meeting, WG 1 had prepared the text for an FDIS.

CD 8253-1

Dealt with under item 9.1.

WD 8253-3

As result of the meeting, the project leader, Mr Arlinger, Sweden, would prepare a draft by August to be circulated as a CD for voting. The present DIS target date is, however, in September, so it was decided to take a resolution, asking the ISO Technical Management Board for extension of the target dates. Resolution 8 was taken.

Action: Secretariat

PWI 7029

An extension of the age range beyond 70 years was under preparation. It was expected that the project leader, Mr Kurakata, Japan, could prepare a revised draft within the working group before the end of the year, however, the item should remain at the preliminary stage.

PWI ISO 389-1 revision

As result of discussion at the meeting it was expected that a revised draft within the working group could be prepared within one year, however, the item should remain at the preliminary stage.

PWI ISO 1999:1990 revision

The aim of the project is to update database B of ISO 1999:1990. It was expected that the project leader, Mr Arlinger, Sweden, would prepare a draft for circulation as a first CD within a few weeks, and it was, therefore, proposed to upgrade the preliminary work item to the active stage at the same time as the circulation of the CD with TC 43 as proposer. This was supported. Resolution 9 was taken.

Action: Secretariat

PWI 28961 – Statistical distribution of hearing thresholds

New data from Japan would be the basis for the preparation of a Technical Specification 28961. It was, however, the intention that ultimately, this should be merged with ISO 389-7.

It was expected that the project leader, Mr Kurakata, Japan, would prepare a draft for circulation as a first CD within a few weeks, and it was, therefore, proposed to upgrade the preliminary work item to the active stage at the same time as the circulation of the CD with TC 43 as proposer. This was supported. Resolution 10 was taken.

Action: Secretariat

PWI 389-2

The convenor finally reported that WG 1 suggested to register revision of ISO 389-2 as a preliminary work item. This was supported. Resolution 11 was taken.

Action: Secretariat

11.2 WG 8 – Test methods for the qualification of free-field environments

In the absence of the convenor, Mr Lord, UK, the German member of WG 8, Mr Wittstock, presented the additional convenor's report given in Attachment A to doc. 43 N 1100. He explained that the original scope had been too ambitious, and it had, therefore, now been agreed to limit it to a general application of the specifications of ISO 3745, leaving out the impulse response method. WG 8, therefore, expected to be able to make progress now.

The target dates had, however, already been superseded and it was, therefore, necessary to ask the ISO Technical Management Board for extension. This was approved. Resolution 12 was taken.

Action: Secretariat

11.3 WG 9 – Method for calculating loudness level

The chairman recalled that at its last meeting, TC 43 decided to revise ISO 532 and to allocate the work item to a new WG 9. Quite some time had been spent on setting up the working group with convenor, co-convenor and project leader so the technical work had been delayed.

The convenor, Ms Wilber, USA, presented the additional convenor's report given in Attachment B to doc. 43 N 1100. She reported that as result of intense discussions in the working group it had been realized that it would be unrealistic to include both steady and time-variant sound in the same document. WG 9 therefore recommended to split up the work item into two parts:

Part 1: Loudness of steady sound, and
Part 2: Loudness of time-variant sound

of which part 1 would be processed as the original work item and part 2 would become a new preliminary work item.

Since the target dates could not be met it would be necessary to ask the ISO Technical Management Board for extension.

The chairman concluded to proceed with WI 532 as WI 532-1 and to ask the ISO Technical Management Board for extension of the target dates for WI 532-1. Resolution 13 was taken.

Action: Secretariat

The chairman further concluded to include a new 532-2 as a preliminary work item, allocated to WG 9. Resolution 14 was taken.

Action: Secretariat

12 Disbanding of working groups

All working groups are active, so no groups should be disbanded.

13 Decision for future work (as presented under item 8)

No proposals for future work had been received.

14 Work item on which no progress is being made – Status and action to be taken

All target date considerations had been dealt with under review of working groups.

15 Review of preliminary work items

All items had been dealt with under review of working groups.

16 Requirements concerning a subsequent meeting

There was no official invitation to the next meeting of TC 43/SC 1, which, according to the normal schedule, should take place in the second half of 2009.

A list of meeting places of TC 43 had been made available during the meetings. According to the order of meeting places up to now, the aim was to have a meeting outside Europe, preferably in the Asian region.

It was also noted that IEC/TC 29 "Electroacoustics" usually has been meeting in the week preceding the ISO meetings at the same or at a nearby place.

The Japanese delegation informed that they had held internal discussions in their acoustical society concerning the possibility of a meeting in Japan, and that they had also had contact with colleagues in South Korea. No final confirmation could, however, be given at the meeting.

17 Any other business

17.1 Meeting of BIPM

The representative of the ISO Central Secretariat mentioned that ISO had received an invitation from BIPM (Bureau International des Poids et Mesures) to be represented at a meeting in the CCAUV (Consultative Committee for Acoustics, Ultrasound and Vibration) in October in Paris and invited TC 43 to respond to this invitation. ISO/TC 108 "Mechanical vibration, shock and monitoring" is permanently represented on this committee.

Upon suggestion from the chairman of TC 43/SC 2 it was decided that the invitation should be sent to the secretariat of TC 43 to be dealt with by correspondence.

Action: ISO/Central Secretariat, secretariat

18 Approval of resolutions

The draft resolutions, given in doc. 43 N 1106, were distributed and approved with a number of amendments. The adopted resolutions, given in doc. 43 N 1107, are included in this report.

19 Closing of the meeting

The chairman expressed his thanks to the convenors and delegates for their efficient work and cooperation.

Special thanks were extended to the host, SP, for having provided excellent facilities and to Mr Jonasson for the outstanding arrangement and to the sponsors for the fantastic cruise. Ms Midborn Ekerfors and the rest of the helpful staff at SP were particularly thanked for their support and service both to the secretariat and to the delegates.

Finally, the chairman expressed his thanks to the secretariat for its excellent preparation of the meetings.

The meeting was closed at 13:20.

RESOLUTIONS

adopted at the 33rd plenary meeting of ISO/TC 43 "Acoustics"

2008-05-30 in Borås, Sweden

Resolution 1 – TC 43/SC 1 Chairman

ISO/TC 43 appoints Hans Jonasson, Sweden, as chairman of ISO/TC 43/SC 1 for a six year term.

Resolution 2 – TC 43/SC 2 Chairman

ISO/TC 43 appoints Oliver Kornadt, Germany, as chairman of ISO/TC 43/SC 2 for a six year term.

Resolution 3 – Business Plan

ISO/TC 43 approves the Business Plan, given in doc. 43 N 1099, with amendments agreed at the meeting.

Resolution 4 – CD 8253-1

ISO/TC 43 approves doc. 43 N 1104, 2nd ISO/CD 8253-1 "Acoustics – Audiometric test methods – Part 1: Basic pure-tone air and bone conduction threshold audiometry" and requests the secretariat to submit it to the ISO Central Secretariat for circulation as a Draft International Standard.

Resolution 5 – ISO 266 review

ISO/TC 43 confirms ISO 266:1997 "Acoustics – Preferred frequencies".

Resolution 6 – ISO 8253-2 review

ISO/TC 43 decides to revise ISO 8253-2:1992 "Acoustics – Audiometric test methods – Part 2: Sound field audiometry with pure tone and narrow-band test signals" under the extended time frame and allocates the work item to WG 1 with Einar Laukli as project leader. The revised document should be proceeded with directly for FDIS circulation.

The following P-members participating in WG 1 present at the meeting confirm their commitment to the work: Germany, Japan, Norway, Sweden, USA.

Resolution 7 – ISO 8201 review

ISO/TC 43 confirms ISO 8201:1987 "Acoustics – Audible emergency evacuation signal". At the same time it requests the secretariat to make contact with ISO/TC 21/SC 3 "Equipment for fire protection and fire fighting/Fire detection and alarm systems" suggesting that this committee takes over the responsibility of ISO 8201:1987.

Resolution 8 – WI 8253-3 target dates

ISO/TC 43 notes that WI 8253-3 "Acoustics – Audiometric test methods – Part 3: Speech audiometry" is failing to meet the prescribed target dates and soon will be deleted from the programme of work. It requests the secretariat, in cooperation with WG 1, to prepare a justification for extension of target dates to be submitted to the ISO Technical Management Board with the following new target dates:

1CD: 2008-08, DIS: 2010-01, FDIS: 2011-01.

Resolution 9 – PWI 1999

ISO/TC 43 supports the proposal from WG 1 to upgrade PWI 1999 "Acoustics – Determination of occupational noise exposure and estimation of noise-induced hearing impairment (Revision of ISO 1999:1990)" to the active stage and asks the secretariat to circulate a NWIP with ISO/TC 43 as proposer together with a first CD when this has been completed by WG 1.

Resolution 10 – PWI 28961

ISO/TC 43 supports the proposal from WG 1 to upgrade PWI 28961 "Statistical distribution of hearing thresholds" to the active stage to become a Technical Specification and asks the secretariat to circulate a NWIP with ISO/TC 43 as proposer together with a first CD when this has been completed by WG 1.

Resolution 11 – PWI 389-2 registration

ISO/TC 43 decides to register revision of ISO 389-2:1994 "Acoustics – Reference zero for the calibration of audiometric equipment – Part 2: Reference equivalent threshold sound pressure levels for pure tones and insert earphones" as a preliminary work item, allocated to WG 1 with Wolfgang Köpke, Germany, as project leader.

Resolution 12 – WI 26101 target dates

ISO/TC 43 notes that WI 26101 "Acoustics – Test methods for the qualification of free-field environments" is failing to meet the prescribed target dates and soon will be deleted from the programme of work. It requests the secretariat, in cooperation with WG 8, to prepare a justification for extension of target dates to be submitted to the ISO Technical Management Board with the following new target dates:

1CD: 2008-12, DIS: 2010-03, FDIS: 2011-03.

Resolution 13 – WI 532-1

ISO/TC 43 decides to proceed with WI 532 "Acoustics – Method for calculating loudness level" as WI 532-1 with the new part title "Loudness of steady sound". ISO/TC 43 notes that this item is failing to meet the prescribed target dates and soon will be deleted from the programme of work. It requests the secretariat, in cooperation with WG 9, to prepare a justification for extension of target dates to be submitted to the ISO Technical Management Board with the following new target dates:

1CD: 2009-06, DIS: 2010-12, FDIS: 2011-12.

Resolution 14 – PWI 532-2

ISO/TC 43 decides to register the preparation of an ISO 532-2 "Acoustics – Method for calculating loudness level – Part 2: Loudness of time-variant sound" as a preliminary work item in the programme of work, allocated to WG 9.