



# ICES

International Committee on Electromagnetic Safety

## *Approved Meeting Minutes*

### **ICES TC34 and TC95 Joint Meeting**

**Sunstar Hotel**

**Davos Switzerland**

**Sunday, 21 June 2009**

**9:00 AM – 1:00 PM**

**1. Call to Order: 0900:**

Chairman Bodemann called the meeting to order

**2. Introduction of those Present:**

Each of the attendees introduced her/himself. (See [Attachment 1](#) for List of Attendees.)

**3. Approval of Agenda:**

Following a motion and a second, the agenda was approved without modification. (See [Attachment 2](#) for Agenda.)

**4. Approval of June 27 2005 TC34 Minutes**

Following a motion and a second, the minutes of the June 27 2005 meeting were approved without modification.

**5. Approval of June 8, 2008 TC95 Minutes:**

Following a motion and a second, the minutes of the December 4, 2008 meeting were approved without modification.

**6. Chairman's Reports:**

**1. TC34:**

Kainz presented an update of TC34 activities ([Attachment 3](#)). When asked if TC34 could produce relevant product standards, Kainz replied that such standards could be produced if there is enough interest.

**2. TC95**

Chou provided an update on some of his activities that relate to ICES activities (see [Attachment 4](#) and [Attachment 4A](#)). He also gave a presentation "RF exposure and Compliance Standards (bridging safety and compliance standards—[Attachment 5](#)).

### 3. AdCom

Bodemann provided an update on activities of the AdCom ([Attachment 6](#)). He noted that a major accomplishment was achieved on 14 May 2009 with the signing of a Technical Cooperation Agreement between the NATO Standardization Agency (NSA) and IEEE ([Attachment 7](#)). The purpose of the agreement is to share knowledge of each organization's standards development activities and avoid duplication of technical standards whenever possible. More specific to ICES activities was the signing of an agreement on 30 July between IEEE and NSA for the Development of a New IEEE civil standard to replace the NATO EMF standard adopted under STANAG 2345 ([Attachment 8](#)). A working group comprised of members from TC95 SC3 and SC4 has been established to develop the new standard, a PAR will be submitted (PC95.1-2345) to NesCom for consideration at the September SASB meeting, and a draft standard is being prepared. The first meeting of the working group will be held in Washington DC in July—another meeting is planned for September.

### 7. Executive Secretary's Report:

Petersen sent his apologies – he could not attend because of a conflict. The Executive Secretary's Report is included as [Attachment 9](#).

### 8. Treasurer's Report:

Varanelli sent his apologies. The Treasurer's Report is included as [Attachment 10](#). Kainz noted that ICES should be looking into new means for raising funds. Wiart raised the need for better coordination between ICES and ICNIRP, which was noted and agreed to by the attendees. Kuster went further and suggested a meeting between ICES and ICNIRP to identify differences and perhaps produce a joint paper for publication.

#### **ACTION ITEM 1**

**Kainz will follow-up and establish a dialog between ICES and ICNIRP with the ultimate goal of setting up a face-to-face meeting to discuss differences between the IEEE standards and the ICNIRP Guidelines and to publish a jointly developed paper for publication.**

Members of the ICNIRP/ICES Coordination WG include Anderson, Chou, Kainz, Reilly, Wiart and Ziskin.

### 9. Membership Chairman's Report:

Murphy reviewed the TC95 membership status of the ([Attachment 11](#)). He noted that a number of new members have been accepted—he welcomed them to TC95. There are still issues relating to inactive members and members who cannot be reached because of invalid e-mail addresses—he is still seeking their correct addresses. He also showed and explained a table listing inactive members ([Attachment 12](#)) and explained the process for contacting each to verify whether or not they intend to remain on the committee.

### 10. International Liaison Chairman's Report (Invited Speakers)

Murphy introduced invited speaker, Dr Pirunthavany Muthuvelu (Vany), Principal Assistant Director, Engineering Services Division, Ministry of Health Malaysia. Dr Muthuvelu gave a very interesting presentation on the legislative situation in Malaysia ([Attachment 13](#)). She

concluded by noting that the standards will have to be reviewed to ensure harmony with changes to the ICNIRP Guidelines.

## **11. Reports from the Subcommittees:**

### **a) TC34:**

#### **i. SC1 (Measurement Techniques):**

Douglas provided an update of the activities of TC34/SC1 ([Attachment 14](#)). He described the need for measurement standards and the work now being done on the revision of IEEE 1528-2003, “Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.” He noted that SC1 works closely with IEC TC106 PT62209 to ensure harmonization of international standards. An eventual goal is to publish P62209 and P1528 as a dual logo international standard.

#### **ii. SC2 (Computational Standards):**

##### **1. WG1 (Peak spatial-average SAR from wireless communications devices—general requirements for using the finite difference time domain (FDTD) method):**

Andreas Christ provided an update on the activities of WG1 ([Attachment 15](#)) noting that this work will serve as a basis for application of related standards on dosimetric applications, e.g., IEEE P1528.2 and P1528.3 or other future standards or technical specifications. In response to a question, Christ pointed out that the requirements are not specific to any particular software.

##### **2. WG2 (Specific requirements for FDTD modeling of vehicle-mounted antennas):**

Covered in TC34 Chairman’s Report ([Attachment 3](#)).

##### **3. WG3 (Peak spatial-average SAR from wireless communications devices—modelling mobile phones/personal wireless devices):**

Siegbahn provided an update on WG3 activities ([Attachment 16](#)). He provided timelines for the initial Sponsor Ballot (IEEE) and submission of P1528.3 to RevCom for Standards Board approval. He noted that the current focus is on resolving uncertainty issues.

##### **4. WG4 (Requirements for using the FDTD method for SAR Calculations):**

Covered in TC34 Chairman’s Report ([Attachment 3](#)).

### **b) TC95**

#### **i. SC1 (Measurements and computations):**

A summary of TC95/SC1 activities was presented ([Attachment 17](#)). Most of the effort during the past few years focussed on completing a new recommended practice (PC95.3.1) for the measurement and computation of low frequency fields, i.e., between 0 Hz and 100 kHz). Sponsor (IEEE) balloting is expected to commence in the fall of 2009.

**ii. SC2(Terminology, units of measurement, hazard communications):**

In the absence of SC2 Chairman Tell, Chou provided a summary of SC2 activities ([Attachment 18](#)).

**iii. SC3 and SC4 (Safety levels with respect to human exposure – 0 Hz to 3 kHz and 3 kHz to 300 GHz, respectively)**

Thansandote provided an update of SC3 and SC4 activities ([Attachment 19](#)). He reviewed a number of standards issues worldwide and described how IEEE C95.1-2005 and C95.6-2002 (R2007) are being revised and combined into a single standard covering the frequency range of 0 Hz to 300 GHz.

**iv. SC5 (Safe distances from antennas during blasting operations)**

A formal presentation was not provided but it was noted that IEEE C95.4-2002 was reaffirmed in 2008 and is stable and a revision is not anticipated.

**12. ICES Website**

A formal report was not provided but it was noted that the ICES website is up and running (<http://www.ices-emfsafety.org/>). Registration for meetings, committee and subcommittee public and private pages are available for approved (public) and draft (private) meeting minutes and other relevant material. It was noted that ICES owns the domain.

**13. New Business**

No new business

**14. Plans for Future Meetings**

**a) TC34:**

Next meeting: Helsinki, 8-10 September, 2009. TC34 Subcommittees usually meet at least four times per year.

**b) TC95:**

Next meeting: 17-19 November (NEMA) Roslyn Virginia, then in Seoul in conjunction with BEMS. It was agreed that ICES should meet before BEMS.

**c) ICES/ICNIRP Coordination WG:**

Possibly meet face-to-face with COST 281 in Paris in November or via the Web earlier.

**15. Adjournment:**

There being no further business, the meeting was adjourned at 1235 h.