



**INTERNATIONAL
COMMITTEE *on*
ELECTROMAGNETIC
SAFETY**

**SUBCOMMITTEE 3
SAFETY LEVELS WITH RESPECT TO HUMAN EXPOSURE, 0 to 3 kHz**

25th Meeting
Doubletree Hotel
37 NE Loop 410
San Antonio, TX 78216
Thursday, [December 4, 2003](#) (8:00 AM – 12:00 Noon)

MEETING MINUTES

Members Present

Eleanor Adair
Bill Ash
David Baron
Ralf Bodemann
Philip Chadwick
John DeFrank
Thanh Dovan
Daniel Goulet

Donald Haes, Jr.
Wayne Hammer
Martin Hernandez
Kent Jaffa
Dr. Sheila Johnston
Robert Needy
Ronald Petersen
Ken Proctor

Asher Sheppard
Mays Swicord
Richard Tell
Art Thansandote
Arthur Varanelli
Jamaal Whitmore
Richard Woods
Marvin Ziskin

Members – Excused Absences

Franz Adlkofer
William Bailey
Richard Barker
Howard Bassen
Pascale Bellier
Aviva Brecher
Jim Daly
John D'Andrea
Linda de Jager
David George

Ken Gettman
Kelly Gibney
Daniel Hicks
Veronica Ivans
Jolanta Karpowicz
Joe Koepfinger
Janet Lathrop
Tom McManus
John Osepchuk

William Paul
Steve Pittman
J. Patrick Reilly
Ervin Root
Dave Sawdon
Eric van Rongen
Femme-Michelle Wagenaar
Louis Williams, Jr.
Donald Zipse

Members Absent (consecutive unexcused absences)

John Bergeron (3)	Georges Goldberg (3)	James Merritt (3)
David Black (3)	Michael Herz (3)	Dr. Michael Murphy (2)
Charles Boeggeman (3)	Louis Heynick (1)	Robert Podhrasky (4)
Robert Carberry (2)	Roy Hubbard (1)	Brad Roberts (2)
Kazuhiko Chikamoto (1)	Niels Kuster (3)	Walter Rogers (1)
Roger Coghill (1)	John Leonowich (1)	Jon Sirugo (2)
Robert Curtis (1)	W. G. Lotz (2)	David Sliney (2)
Steinar Dale (4)	Patrick Mason (2)	György Thuróczy (1)
David Fichtenberg (2)	Robert McCourt (3)	Cleveland Watkins (4)
Om Gandhi (3)	Dr. James McNamee (2)	

Guests Present

Patricia Mullins	Resource Strategies, Madison, WI
Don Umbdenstock*	TEPG – Sensormatic, Boca Raton, FL
Jolanta Tapowicz*	
David George*	Ergonomics, Inc.

* Requested membership on SC 3

1. CALL TO ORDER

The meeting was called to order at 8:00 AM by the SC 3 Co-Chairs, Philip Chadwick & Thanh Dovan.

2. SELF INTRODUCTIONS & ATTENDANCE ROSTER

The Chair requested that all attendees introduce themselves and state their affiliation.

The SC 3 Membership Roster in the Attendance folder was circulated for members present to initial to indicate attendance at the meeting and to update their listing on the roster, particularly to make sure that their e-mail address was included and correct and to add their IEEE membership number and grade. Guests were requested to either provide a business card in the attached envelope or to provide mailing information on the attendance sheet in the folder. Guests were also requested to indicate if they wanted to become a member of SC 3.

3. OPENING REMARKS

The Chair, Phil Chadwick provided some general information to the attendees. Thanh Dovan will take the Meeting Minutes on behalf of the SC3's Secretary, Jim Daly.

4. APPROVAL OF AGENDA

The Agenda was unanimously approved, see Attachment #1.

5. APPROVAL OF 6/20/03 MINUTES

The Minutes were unanimously approved with the following correction:

Louis Williams was mistakenly reported as an unexcused absence for the 12/14/02 and 6/20/03 meetings when, in fact, he had submitted a request for an excused absence to ICES.

6. CHAIRMAN'S REPORT

No specific report

7. SECRETARY'S REPORT

The attendance policy for continued membership in SC 3 was restated. Members will be removed from the roster after missing two (2) consecutive meetings unless an excused absence is requested. The reason(s) for absences from SC 3 meetings will be accepted by e-mail, phone, or in writing to the Secretary or the Chair. Before removing members, the Secretary will contact the individual and request, either by e-mail or in writing, their intentions for continued membership. If no response is received, the individual will be removed from the membership roster.

Since the previous meeting, the following changes have occurred in the membership of SC 3:

7.1 New members added at last meeting: Walter Rogers

7.2 New members added since the last meeting: Jamaal Whitmore

7.3 Resignations: J. Robert Ashley

7.4 We note with regret the passing of Carl Sutton.

7.5 No members were removed from the roster since the last meeting for failing to comply with the attendance policy due to the illness of the Secretary.

Twenty-eight members requested an excused absence from this meeting.

See Attachment #2 for the current SC 3 roster. Prior to this meeting there were 81 members of SC 3 plus 8 corresponding members.

The Secretary's report was accepted.

8. ICES SCC-28 EXCOM REPORT

Dr. Eleanor Adair, Chair of ICES SCC 28, reported on:

- The role of the IEEE Liaison officer, Bill Ash, and introduced him to SC3.
- The new ICES memberships
- Detailed report will be given at the main committee meeting on Sunday, December 7th 2003 decision of ????

9. IEEE SHORT COURSE ON C95.6

Ron Petersen reported that plans were being developed to conduct a one-day course on the IEEE C95.6 Standard for the Canadian Electric Association in Ottawa, Canada in March 2004 and for the ICES Meeting in Washington, DC in June 2004.

A Short Course Outline has been prepared by Kent Jaffa and will be sent out with SC3 meeting Minutes

Dissemination of information on the June 2004 course will be accomplished as follows:

Sheila Johnston:	For UK National Grid and others
Dave Barron:	ACGIH-ICES Liaison for ACGIH
Wayne Hammer:	Will disseminate <i>via</i> TERP meeting
Eleanor Adair:	As ICES Chair for input to BEMS meeting timetable.
Janet Lathrop:	ELF Gateway members and BEMS Newsletters
All Members	Assist where possible

10. PUBLISH PAPERS AND MAKE PRESENTATIONS ON IEEE C95.6

Thanh Dovan reported that in September/October this year, Pat Reilly had made several presentations at an EMF Utility Workshop (Sydney, Australia), an EMF Scientific Workshop on "Standard Development" (Melbourne, Australia), and at the Australian Radiation Protection & Nuclear Safety Agency (ARPANSA) in Melbourne, Australia. This includes a meeting with the ARPANSA ELF Standard WG.

SC3 has the offer of a webpage from Art Varanelli. Co-Chairs to investigate.

Ralf Bodemann has had an abstract for a paper on ICES activities accepted for the Madrid IRPA meeting.

11. TOPICS TO BE INCLUDED IN THE APPLICATION GUIDE

The Chair invited the SC 3 members to recommend topics that should be included in the Application Guide for C95.6. It was noted that a number of topics have already been submitted for consideration. There is a need to consolidate these for further development.

The following SC 3 members have volunteered to work on the Application Guide:

Dave Baron
Howard Bassen
Ralf Bodemann
Phil Chadwick
Om Gandhi
Ken Gettman

Roy Hubbard
Kent Jaffa
Pat Reilly
Rick Tell
Art Varanelli

The Chair thanked Art Varanelli for his offer at the last meeting to take on the WG Chair if Kent Jaffa or no one else was available. Thanh Dovan has chair of committee and also contact the current members to see if still wish to be members volunteered to be the Application Guide WG chair for the time being..

12. IEEE C95.6 INTERPRETATIONS WORKING GROUP

Thanh Dovan reported the need to establish a working group that will be tasked with interpreting questions posed concerning the standard. A means of addressing this would be to identify a neutral and knowledgeable individual who can chair the group. Membership of the group should be established so that any requests from the IEEE Standards Board can be submitted to the SC 3 chair for determination.

Ron Petersen agreed to chair this WG with membership to date consisting of SC3 Cochairs (Phil Chadwick, Thanh Dovan), Bob Curtis, Pat Reilly, and Kent Jaffa.

13. WORKING GROUP REPORT ON LONG TERM EFFECTS STATEMENT

The following motion was made by Kent Jaffa and seconded by Eleanor Adair:

Motion:

To put to the WG on long-term effects the statement that is in C95.6, in the context of the discussion that has taken place in SC3.

To poll the WG on the need for further action.

To ask the WG for a statement as to what that action would be, if action is needed.

To send the response(s) of the WG to the full SC3 membership.

To poll SC3 on the need for further action.

To ask the SC3 membership what that action should be, if action is needed.

14. UPDATE ON INTERNATIONAL STANDARDS ACTIVITY

Phil Chadwick reported on related activities or CENELEC and IEC.

Thanh Doan reported that the progress of the Australian ARPANSA ELF Standard Development is recently described in an article of the BEMS Newsletter which is available on BEMS Web Site.

15. OTHER OLD BUSINESS

16. NEW BUSINESS

No new business

17. NEXT MEETING

The next meeting of SCC-28 and the subcommittees will be in June in conjunction with BEMS

18. ADJOURNMENT – The Chair adjourned the meeting at 12:00 noon.

Respectfully submitted,

Jim Daly

Jim Daly, Secretary
Subcommittee 3 of IEEE/ICES SCC 28

Attachments No. 1 & 2