



**INTERNATIONAL
COMMITTEE *on*
ELECTROMAGNETIC
SAFETY**

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

**21st Meeting – Ludwig’s Room
Sheraton Gunter Hotel
205 East Houston Street
San Antonio, TX 78205
Friday, January 18, 2002**

MEETING MINUTES

Members Present

Kent Jaffa, (Chair)
Eleanor Adair
William Bailey
David Baron
Ralf Bodemann
Jim Daly
John D’Andrea
Ken Gettman
Wayne Hammer

Martin Hernandez
Louis Heynick
Daniel Hicks
Patrick Mason
Robert McCourt
Tom McManus
Michael Murphy
Robert Needy
John Osepchuk

Ronald Peterson
J. Patrick Reilly
Brad Roberts
Richard Tell
Arthur Varanelli
Cleveland Watkins
Richard Woods
Marvin Ziskin

Members – Excused Absences

Dr. Franz Adlkofer
J. Robert Ashley
Charles Boeggeman
Roger Coghill
Ian Crabtree
Steinar Dale
John DeFrank

Donald Haes, Jr.
Michael Herz
Roy Hubbard
Joe Koepfinger
W. Gregory Lotz
Russell Owen
William Paul

Lee Rosen
Jon Sirugo
Eric van Rongen
Louis Williams, Jr.
Don Zipse

Members Absent (consecutive unexcused absences)

John Bavin (3)
John Bergeron (2)
David Black (1)
Dr. Dennis Blick (1)
Aviva Brecher (1)
Robert Carberry (1)
Philip Chadwick (2)
Robert Curtis (1)
Ruth Douglas-Miller (2)
Dr. Gregor Dürrenberger (1)
Linda Erdreich (2)
William Feero (2)

Peter Gajšek (1)
Om Gandhi (1)
Kelly Gibney (1)
Dr. Georges Goldberg (1)
Greg Gorsuch (1)
Philip Hopkinson (2)
Michel Israel (3)
Veronica Ivans (1)
Sheila Johnston (2)
John Leonwich (1)
Dr. James McNamee (1)
Martin Meltz (2)

Amitabha Mukhopadhyay (3)
Ervin Root (1)
Dave Sawdon (2)
Asher Sheppard (1)
Carl Sutton (1)
Mays Swicord (1)
Art Thansandote (2)
Vijayalaxmi (1)
Edward Yandek (2)
John Ziriaux (1)

Guests Present

| | |
|---------------------|-------------------------|
| Howard Bassen | U.S. FDA |
| Thanh Dovan * | SPI PowerNet |
| David Fichtenberg * | Research Investigator |
| Kimberly Kantner | AT&T |
| James King * | U.S. Navy |
| Robert Podhrasky * | Garrett Metal Detectors |
| Ken Proctor | U.S. Army CECOM |

* Requested membership on SC 3

1. CALL TO ORDER

The meeting was called to order by the Chair, Kent Jaffa, at 1:02 PM

2. SELF INTRODUCTIONS & ATTENDANCE ROSTER

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

The SC 3 Membership Roster 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 an attendance sheet that was circulated with the roster. Guests were also requested to indicate if they wished to become members of SC 3.

3. OPENING REMARKS

The Chair had no additional remarks.

4. APPROVAL OF AGENDA

The Agenda was approved, see Attachment #1.

5. APPROVAL OF 6/9/01 MINUTES

The Minutes were approved as published.

6. CHAIRMAN'S REPORT

The Chair reviewed the activities of the Subcommittee during the past six months.

Among several actions shown in Attachment #2, a revised PAR was submitted to change the project number from P1555 to PC95.6 and to change the title to *Standard for Safety Levels With Respect to Human Exposure to Electromagnetic Fields, 0 to 3 kHz*. The revised PAR was approved by the IEEE-SA Standards Board in December 2001.

7. SECRETARY'S REPORT

7.1 MEMBERSHIP MATTERS

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 write to 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.

No members were removed from the membership roster since the last meeting for failure to comply with the attendance policy.

Four new members have been added since the last meeting:

Dr. Dennis Blick
Dr. Gregor Durrenberger
Dr. Georges Goldberg
Dr. James McNamee

Nineteen members requested an excused absence from the January 18th meeting as indicated above under Members Absent.

See Attachment #32 for the current SC 3 roster. Prior to this meeting there were 78 members of SC 3 plus 3 corresponding members.

7.2 REQUEST FOR ELECTRONIC ENCLOSURES

The Secretary requested, whenever possible, that all future reports and presentations that are to be included in the Minutes be provided to the Secretary in electronic format (Word, Excel, PowerPoint, Adobe Acrobat), if possible, to facilitate distribution of the Minutes by e-mail rather than postal service. Documents not provided in electronic format will be scanned into Adobe Acrobat "pdf" format.

There was some discussion about posting SC 3 information on the IEEE website. This issue will be considered in the future but balloting and publishing the PC95.6 standard must take precedence.

8. ICES SCC-28 EXCOM REPORT

Ron Petersen, IEEE/ICES SCC 28 Secretary, reported that the request to form a balloting committee will be issued shortly by IEEE-SA. Under the IEEE-SA policies and procedures, any IEEE-SA member may request to participate on the balloting committee for any IEEE standard, therefore, the balloting committee will be larger than SCC 28 previous ballot groups.

9. COMMENTS SUBMITTED ON REVIEW OF P1555/PC95.6

Kent Jaffa reported on the second set of comments that were submitted by SC 3 members in November when P1555/PC95.6 was recirculated to SC 3, following completion of the ballot, and the disposition of those the ballot comments. See the last part of Attachment #23.

There were no objections from the Subcommittee members present at the meeting to the resolution of the comments. The draft will now be finalized for IEEE/ICES SCC28 balloting.

10. REPORT ON THE SPATIAL AVERAGING DISTANCES IN THE STANDARD

Pat Reilly reported on the spatial relationships in neuroelectric excitation and the applicability of those relationships in the standard. This forms the basis for using a spatial averaging distance of 0.5 cm in the standard. Pat will be providing a report on this to SC 3 that will become part of the official record of SC as referenced in the standard. He will also be submitting this to a journal. See Attachment #4.

11. TASK GROUP REPORT ON LONG TERM EFFECTS STATEMENT

At the June 2001 meeting, members formed a task group to develop a stand alone position statement on long term effects. Ralf Bodemann reported that he will shortly be drafting a strawman to

circulate to members of his task group. When the task group finalizes their draft statement, it will be presented to the full committee for their comments. See Attachment #5.

12. UPDATE ON INTERNATIONAL STANDARDS ACTIVITY

Dr. McManus provided a brief review of various international developments since the St. Paul meeting in June 2001. The documents and initiatives referred to are listed in the tables in Attachment #65. Dr. McManus advised that he would help locate or provide further information on the items referenced in the tables to ICES members and meeting attendees.

13. OTHER OLD BUSINESS

None

14. NEW BUSINESS

Pat Reilly initiated a discussion on the IEEE-SA policies and procedures that require balloters on IEEE standards to be members of both IEEE and IEEE-SA. There is an exemption for non-IEEE invited experts to participate subject to IEEE-SA Standards Board approval. This subject will be discussed at the SCC 28 meeting on Sunday.

15. NEXT MEETINGS

The next meetings of SC 3 and SCC 28 will be held in June at the end of the Bioelectromagnetics Society meeting in conjunction with the ?? in Quebec City, Quebec, Canada.

16. ADJOURNMENT – The Chair adjourned the meeting at 4:25 PM.

Respectfully submitted,

Jim Daly

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

Attachments No. 1 through 5