

Standards Coordinating Committee
Roger Marks

1) Subcommittee Activities and Status

a) IEEE 1198: Mode Nomenclature of Dielectric Resonators and Waveguides

No report. Since 1994, K. A. Zaki has been listed as the Chair of this activity.

During my service on the Standards Coordinating Committee (since January 1996), I not been able to obtain any status reports on it. In June 1995, IEEE granted an extension of the PAR until June, 1997. I expect to soon receive a note from IEEE either deleting the project or warning of its imminent withdrawal.

b) IEEE 1443: Microwave Network Parameters

No major activities.

2) Liaison Reports

a) SCC28: Non-Ionizing Radiation

John Osepchuk provided a update (attached).

John notes that "The controversy over a cancer link below 3 kHz (the power-line controversy) is being 'closed out' by the media but activists who promote Electrophobia are shifting attention to 'microwaves,' particularly wireless systems - cellular, PCS etc."

SCC28 is currently working with IEEE to organize a fundraising effort. If they decide to solicit the IEEE societies, MTT-S would be a likely candidate.

b) SCC34: Electromagnetic Energy Product Performance Safety

Clark Bell provided this committee's Annual Report (attached).

c) 1130-1988: Revision of IEEE Standard 1130-1988: Standard Definitions of Physical Quantities for Fundamental Frequency and Time Metrology

Fred Labaar reported that the draft standard is acceptable.

3) Coordination Acknowledgments

a) Revised Recirculation of IEEE Project 1128/D12: Recommended Practice for RF Absorber Performance Evaluation in the Range 30 MHz to 5 GHz

b) Second Recirculation of IEEE Project 1404/D3: Guide for Microwave Communication System Development: Design, Procurement, Construction, Maintenance and Operations

Liaison Report to MTT-S from IEEE SCC28
September 1997

An Annual Report for SCC28 has been submitted to the IEEE Standards Board. Highlights for the past year include:

- (a) Reaffirmation of existing standards: C95.1 and C95.3.
- (b) Balloting on revisions of C95.2 (Warning Symbol) and C95.3 (Measurements)
- (c) Development of draft standard on safe distances from RF transmitters for use of EEDs.
- (d) Scientific reports on revision of C95.1 at low and high frequencies.
- (e) Successful Workshop on Interface of Laser and Microwave Standards; new liaison committee.
- (f) Successful Short Course on C95.1

SCC28 membership has grown to over 80 with liaison with many groups and a significant non-U.S. Participation. An Executive Committee of 7 meets about 6 times a year to manage the diverse tasks of standards development, liaison, interpretations, due process etc. Fundraising is an immediate challenge.

Attempts over the last three years to adopt the IRPA/INIRC guidelines for 50/60 Hz as an IEEE Guide have failed. We now believe the SCC28 community is prepared to develop its own IEEE Standard for frequencies below 3 kHz to match the very successful C95.1 Standard above 3 kHz.

The controversy over a cancer link below 3 kHz (the power-line controversy) is being “closed out” by the media but activists who promote Electrophobia are shifting attention to “microwaves,” particularly wireless systems - cellular, PCS etc.

Future developments are foreseen in:

- (a) New product standards from IEEE SCC34, cosponsored by the IEEE and the EEA (Electromagnetic Energy Association).
- (b) New policy trends to separate environmental limits from safe exposure limits.
- (c) A proposed Workshop to create a full airing and record of the concept of “athermal effects” and the scientific view from all scientific and technical groups on this subject.

John M. Osepchuk



Standards Coordinating Committee 34 Electromagnetic Energy Product Performance Safety

Standards Coordinating Committee 34

Second Annual Report

(Submitted by R. Petersen, Chairman SCC-34)

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1. Scope: The scope of Standards Coordinating Committee 34 (Product Performance Standards Relative to the Safe Use of Electromagnetic Energy) is to develop product performance standards relative to the safe use of electromagnetic energy for specific products that emit electromagnetic energy at frequencies greater than 3 kHz.

These standards will be expressed in terms of easily measured parameters, e.g., output power, current, voltage, and will be directly derived from the basic and derived limits of *IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz*, IEEE C95.1-1991 (or latest revision thereof).

Standards, guides and recommended practices will also be developed which describe measurement protocols for determining compliance with SCC-34 and SCC-28 standards. SCC-34 is a collaborative effort between IEEE and the Electromagnetic Energy Association.

2. Membership Roster

(See pages 4-5.)

3. Activity Report

a) Objectives and Goals for 1997-1998

The following goals and objectives are to be completed in 1998:

- Complete membership staffing of the main committee including representation from consumer groups and vice chairman from the FDA/Center for Devices and Radiological Health/
- Develop first working draft of a recommended practice for the certification of wireless handsets using experimental techniques

c) Current levels of activity with milestones indicated

Complete a working draft of a recommended practice for the certification of wireless handsets using experimental techniques. (2nd Q 98)

Complete a working draft of a recommended practice for the certification of wireless handsets using numerical techniques. (2nd Q 98)

Complete an SC voting draft of a recommended practice for the certification of wireless handsets using experimental techniques (3rd Q 98). A PAR will be submitted in time for consideration at the December 1997 Standards Board meetings.

Complete an SC voting draft of a recommended practice for the certification of wireless handsets using numerical techniques (3rd Q 98). A PAR will be submitted in time for consideration at the December 1997 Standards Board meetings.

Complete staffing of main committee (vice chairman from FDA and representation from consumer groups). (2nd Q 98)

Develop scope and outline for a guide for small boat radars. (4th Q 97)

Hold first meeting of the main committee (2nd Q 98)

d) IEEE Staff support requirements

Secretarial services will be provided by member companies and EEA. Support in setting up meetings at IEEE will be required (initially no more than two times per year); availability of IEEE Staff Engineer at meetings held at IEEE will be desirable.

e) Summary of other activities

Liaison with SCC-28 will occur via the circulation of drafts, common membership and holding meetings of the main committee in conjunction with SCC-28 meetings.

f) Meeting schedule with location 1 year back and 1 year projected

Main Committee: June 1998, St. Petersburg, FL in conjunction with the annual meeting of the Bioelectromagnetics Society and the SCC-28 meetings. No meetings were held in 1997.

SC-1: Fall of 1997, Washington DC. No meetings of SC-1 were held in 1997.

SC-2: December 1997, San Diego (in conjunction with C63 meetings); February 1998, Piscataway NJ or Rockville MD. Meetings were held February 4, 1997 in Rockville, MD; May 2, 1997 in Rockville, MD and August 14-15, 1997 in Piscataway, NJ.

SCC-34 Second Annual Report

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