

## APPENDIX XV STANDARDS COORDINATING COMMITTEE

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January 13, 1997

To: Skip Bryan, President, MTT-S  
From: R2M Roger Marks, Chair, MTT-S Standards Coordinating Committee (SCC)  
Subject: SCC Activities and Status

*1) Subcommittee Activities and Status*

a) IEEE 1443: Microwave Network Parameters

On October 31, 1996, Roger Marks made a presentation on the problems being addressed by this committee, and potential solutions, to a group at Hewlett-Packard's EEs of group in Santa Rosa, California. It was agreed that the problems are significant and that EEs of will need to participate.

b) IEEE 1198: Mode Nomenclature of Dielectric Resonators and Waveguides  
No report.

*2) Liaison Reports*

a) SCC28: Non-Ionizing Radiation  
John Osephchuk provided a update (attached).

*3) Prospective Projects*

a) GaAs reliability

I continue to await a copy of the PAR that Dick Snyder told me he submitted.

b) High-Temperature Superconductors (HTS)

Marty Nisenoff of NRL and Raafat R. Mansour of Com Dev agreed to conduct a organizational meeting for an HTS standard at the *Fourth Symposium on HTS in High-Frequency Fields*. I sent an email message (attached) alerting symposium registrants to the meeting. Raafat Mansour provided the following report:

- The item "Standard for HTS in High-Frequency Fields" was added to the meeting agenda. Marty gave a presentation on the issue. The presentation covered a suggested set of definitions and measurements procedures for parameters and terms frequently used in specifying HTS materials for high frequency. Marty's presentation was attended by more than 20 people who provided a positive feedback on the issue.
- A WEB site has been established by Naval Research Lab on the Asilomar conference <<http://estd-www.nrl.navy.mil/hts-rf>>. Two pages are created on this WEB site related to the Standard:

i) Draft version of suggested definitions and measurement guide-lines for radio frequency standard. (This page includes a modified version of what was presented in Asilomar) .

ii) Drafting and formulation of formal standards for RF superconductivity.

- Several people have indicated their interest to be part of the organization group of this standard. I will discuss with Marty the possibility of organizing a meeting during the 1997 MTT Symposium in Denver, with those who showed interest, to discuss the next step.

c) Microwave CAT

I tentatively plan to initiate a committee in the same way as I proceeded in the HTS case. However, I will first wait and see how that process turns out.

d) Non-Ionizing Radiation

Dr. John M. Osepchuk, the Chair and MTT-S Liaison welcomes another MTT-S representative to join the SCC28.



IEEE

## MICROWAVE THEORY AND TECHNIQUES SOCIETY

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*attachments*

### Liaison Report to MTT-S from IEEE SCC28

The SCC28 and its Subcommittees held fruitful meetings at San Antonio on Nov. 15 -17, 1996. Progress includes:

(1) Balloting and approval by IEEE of a Guide on measurement of ELF fields relative to safety questions.

Completion of a draft revised C95.3 measurement standard for ballot by SC1.

(2) Plans are underway for a standard on the safe use of electroexplosive devices in the vicinity of RF sources.

(3) A ballot to adopt the IRPA Guidelines as an IEEE Guide for 50/60 Hz apparently has failed but there is some confusion. The subject will be revisited. SC3 is beginning to prepare for a development of a new standard for 0 to 3 kHz.

(4) Intensive work, including literature review is underway for a revision of C95.1-1991. Balloting to reaffirm existing standards C95.1 and C95.3 was successful. An important workshop on the interface between millimeter waves and infrared lasers will be held at San Antonio on January 21 - 22, 1997.

(5) A draft standard on a revision of C95.2 has been balloted by SC2 and will be revised for another ballot.

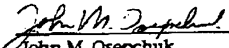
Among goals for 1997 are:

(a) Begin a fund-raising campaign

(b) Create a new SCC for environmental standards.

(c) Increase our liaison with international organizations, the NCRP and groups dealing with hazardous RFI.

The next meeting of SCC28 will be in San Antonio in June 1997.

  
John M. Osepchuk  
January 2, 1997

To: Participants in the Fourth Symposium on HTS in High-Frequency Fields  
From: Roger Marks  
Chair, IEEE MTT Standards Coordinating Committee  
Subj: Standards for HTS in High-Frequency Fields

The Standards Coordinating Committee of the IEEE Microwave Theory and Techniques Society is interested in sponsoring a IEEE working group to develop standards for microwave high-temperature superconductivity. I expect that measurement procedures would be a significant focus, though perhaps not the only one. If such a group were to be established, it is possible that the first meeting would be held in conjunction with the International Microwave Symposium in Denver (June 8-13, 1997). I am interested in your comments on the topic and expressions of interest in participating.

Two MTT members involved in the Fourth Symposium on HTS in High-Frequency Fields, Marty Nisenoff and Raafat Mansour, have suggested that this Symposium might be an opportune time to discuss the possible scope of such a working group. I ask that you contact them with your comments and let them know if you would like to attend a meeting during the Asilomar Symposium. If they receive enough indications of interest, they will try to schedule something. It seems appropriate to do so after the Tuesday afternoon breakout sessions, in case standards come up as an issue during those sessions.

Please communicate your interest in an Asilomar meeting to:

Martin Nisenoff  
Naval Research Laboratory  
Code 6950.1  
Washington, DC 20375-5000  
ph: 202-767-3099  
fax: 202-767-0455  
email: nisenoff@estd.nrl.navy.mil

-and/or-

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Please communicate your general interest in the topic to me:

Roger Marks  
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325 Broadway  
Boulder, CO 80303-3328  
ph: 303-497-3037  
fax: 303-497-7828  
email: r.b.marks@ieee.org

Thanks for your attention.