

IEEE Standards Coordinating Committee 14
Quantities, Units, and Letter Symbols
Annual Report for 2008

1. Scope

SCC14 studies questions regarding quantities, units, and systems of measurement, with particular emphasis on the International System of Units (SI), and it prepares recommendations and standards on those matters. It is responsible for providing current information on quantities and units to all organizations preparing IEEE standards, and for assisting all IEEE organizational units, as requested, in implementing IEEE Policy 9.19, Metric Policy (formerly numbered 9.20).

It is also responsible for the development of standards in the areas of metric practice and letter symbols, for ensuring consistency in these areas in standards that are issued by IEEE, and for providing current information on letter symbols and metric practice to all organizations preparing IEEE standards.

SCC14 works with the committees responsible for generating IEEE standards to help them meet the requirements of the Standards Board Implementation Plan for IEEE Policy 9.20 [Metric Policy], adopted March 16, 1995. As part of the coordination process, it reviews requests for individual exceptions and reports its recommendations to the Standards Board.

2. Membership

The membership roster for SCC14 is attached.

Standards are prepared and maintained in the following six sub-committees, which are responsible for standards as indicated:

- 14.1 Metric Practice (Std 945; IEEE/ASTM SI 10)
- 14.2 Definitions (Std 270)
- 14.3 Unit Symbols (Std 260.1, Std 1541)
- 14.4 Quantity Symbols, electrical science and engineering (Std 280)
- 14.5 Quantity Symbols, acoustics (Std 260.4)
- 14.6 Mathematical Symbols (Std 260.3)

There are also three subcommittees that focus on coordination with other organizations:

14-Int Coordinates with IEC and ISO on matters of mutual interest; supports the U.S. Technical Advisory Committee for IEC TC 25 and the U.S. Advisory Group to ISO TC 12

14-Rev Reviews proposed IEEE standards and submits comments as part of the mandatory SCC14 coordination before they are submitted to RevCom

14-Leg Follows proposed legislative and regulatory actions that affect metrication, both nationally and internationally

3. Activity Report

Objectives and Goals for 2007/08

SCC14.1: Working with ASTM, prepare revision of IEEE/ASTM SI 10; ballot proposed revision in 2007. Ballot Std 945 for reaffirmation in 2008. *Performance: Std 945 Reaffirmation has been balloted and has received affirmative vote. To be submitted to RevCom in 2008. SI 10 proposed changes have been collected; work on red-line version is in progress.*

SCC14.2: Establish, by end 2008, a procedure for coordination with the IEEE Dictionary. *Performance: Discussed in meeting 2008 April 18; more information will be needed before determining appropriate action.*

SCC14.3: Ballot Std 1541 for reaffirmation in 2007. *Performance: Std 1541 Reaffirmed.*

SCC14.5: Ballot Std 260.4 for reaffirmation in 2007. *Performance: Std 260.4 Reaffirmed.*

SCC14-Rev: Reestablish SCC14 coordination activity by end 2008. *Performance: Bruce Barrow has accepted the chair of this subcommittee and will undertake reestablishment of coordination review and balloting.*

SCC14-Int: Develop proposed “Modified” versions of ISO 80000-3 and 80000-4 for adoption as IEEE standards by end 2007. *Performance: We do not yet have editable copies with which to work; nothing has been done on this to date.*

Objectives and Goals for 2008/09

SCC14.1: Working with ASTM, prepare revision of IEEE/ASTM SI 10; ballot proposed revision in 2008. Submit Std 945 reaffirmation ballot results to RevCom.

SCC14.2: Establish, by end 2009, a procedure for coordination with the IEEE Dictionary.

SCC14.3: Revise/reaffirm Std 260.1.

SCC14.3: Revise/reaffirm Std 280.

SCC14-Rev: Reestablish SCC14 coordination activity by end 2008.

SCC14-Int: Develop proposed “Modified” versions of ISO 80000-3 and 80000-4 for adoption as IEEE standards by end 2009.

IEEE Staff Support Requirements

Michael Kipness provides administrative support to ensure that SCC14 standards development work conforms with approved IEEE standards practice, and serves as staff liaison between the Standards Board and SCC14.

Don Messina is principal liaison concerning standards publication.

Sue Vogel provides staff liaison with ASTM as required by the joint sponsorship of IEEE/ASTM SI 10.

Summary of Other Activities

SCC14 continues to maintain its close liaison with its counterparts in ISO and IEC. The US Technical Advisor for TC 25 and representative on ISO TC 12 (Dr. Thompson), and the US Technical Advisor for TC 1 (Prof. Showers) are members of SCC14. Dr. Thompson is also a member of the Consultative Committee on Units of the General Conference of Weights and Measures. James Frysinger, Acting Chair of SCC14, maintains two websites for the committee -- (<http://grouper.ieee.org/groups/si10/index.html>, and <http://grouper.ieee.org/groups/260/1/>), with a portion that is open to the public.

Meeting Schedule

The committee meets annually in Washington, DC. It met last on 2008 April 18. The next meeting is tentatively scheduled for Thursday, 2009 April 24.

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