



# IEEE STANDARDS BEARER



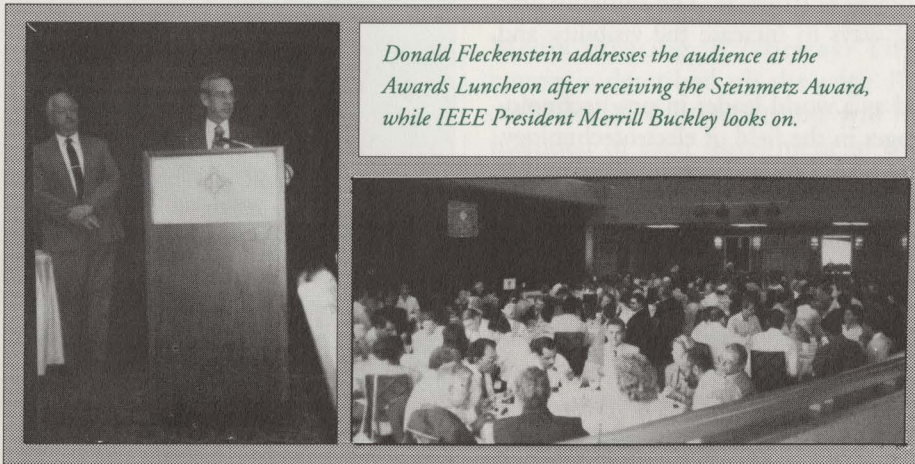
Vol.6 No. 2

Complimentary Newsletter

July 1992

## IEEE Standards Board Meets in Puerto Rico

by Michelle Curtis



Donald Fleckenstein addresses the audience at the Awards Luncheon after receiving the Steinmetz Award, while IEEE President Merrill Buckley looks on.

The IEEE Standards Board conducted its quarterly Board meeting outside of the US borders for the first time last month, when it accepted an invitation from Luis T. Gandia, Vice President of IEEE Regional Activities, to visit the IEEE's Puerto Rico and Caribbean sections and interface with the engineering community of Puerto Rico.

From June 16th through June 19th, the IEEE Standards Board met at the Condado Plaza Hotel in San Juan, where it conducted its meetings and sponsored a series of special events for local electrical engineers as well as the local IEEE section. Highlights of the week included the presentation of two key IEEE Standards Seminars, a Board-sponsored Awards Luncheon, and the IEEE Standards Board Forum.

### Standards Seminars a Success in Puerto Rico

On June 16th, the IEEE Standards Seminars Program presented to mem-

bers of industry in Puerto Rico two intensive one-day seminars, entitled:

- An Overview of the 1993 National Electrical Safety Code
- Battery Design, Operation, and Maintenance

This was the Seminars Program's first visit to Puerto Rico, and many engineers from Puerto Rico and other islands of the Caribbean took advantage of this special opportunity to advance their knowledge in these areas of engineering. As a result, attendance at both seminars was high. The cooperative efforts of the chairs of the local IEEE sections, in particular William Rodriguez, Carlos Rivera Abrams, and Jose Mangual, helped make the seminar presentations a resounding success. Their efforts were greatly appreciated.

### Donald Fleckenstein Receives Prestigious Steinmetz Award

The Charles Proteus Steinmetz

Award is a field award sponsored annually by the IEEE Standards Board through the IEEE Foundation, Inc. "for major contributions in the field of electrical and electronics engineering." This award is granted by the Board of Directors upon the recommendation of the Awards Board.

The 1992 recipient is Donald Fleckenstein, who received the Steinmetz Award for his leadership in national and international electrical and electronics standardization. He is a current member and past chair of the IEEE Standards Board. In 1990, he was also awarded the Astin-Polk International Standards Medal from ANSI, in recognition of his outstanding leadership in voluntary international standardization.

The award was presented to Mr. Fleckenstein by Merrill Buckley, IEEE

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*Letter from the editor's desk*

Dear Readers,

The activities and ideas in this issue reflect an expanding horizon for IEEE standards. You'll read about the first Standards Board meeting held outside of US borders (see cover story), and see articles on metrication (page 4) and on harmonization of IEEE style with that of international practices (page 3). The thinking here is clearly global, with an emphasis on finding ways to increase the visibility and usefulness of IEEE standards around the world.

IEEE Standards, which is already recognized as a world leader in new technology, must continue to prepare for future challenges in the field of electrotechnology. The "Windows to..." feature on page 5 of this issue (not to be missed!) identifies seven of the "grand challenges" in electrotechnology and suggests why standards are so relevant to meeting them.

IEEE Standards can only continue to be a leader as long as the standards that industry needs are produced in a timely manner. To this end, the Standards Department has developed a Leadership Training program to help standards developers work more efficiently (see page 10). At the same time, the IEEE Standards Press has announced the publication of several new aids to standards users, thus making standards themselves more understandable. These programs demonstrate the commitment of IEEE Standards to listening to the needs of standards developers and users alike. Let us know if you have any suggestions!

*Kristin Dittmann*

Kristin Dittmann  
Editor-in-Chief

### Keeping in Step— June 1992 Standards Board News

- ⇒ The PAR form is available on disc or via Bulletin Board. Contact Michele Bauer, (908) 562-3808.
- ⇒ The Standards Board reminds committee chairs that, although our meetings are open to anyone who wants to participate, motions may only be made by committee members listed on the official roster.
- ⇒ Coordination with SCC14 (Quantities, Units, and Letter Symbols) is now required, whether or not it was on the

- Project Authorization Request (PAR) at the time your project was authorized. Contact Bruce Barrow, Chair of SCC14, at 5153 King Charles Way, Bethesda, MD 20814 (703) 285-5444.
- ⇒ After September's meeting, the Standards Submittal form dated 2/1/89 will no longer be accepted by RevCom.
- ⇒ RevCom will no longer consider submittals unless all coordination letters are received by the time of the meeting.

STANDARDS  BEARER

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The IEEE Standards Bearer is published quarterly by the IEEE Standards Department, 445 Hoes Lane, PO Box 1331, Piscataway, NJ 08855-1331, USA. Third class postage paid at Piscataway, NJ.

ISSN 08960-1425.

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# THE CHAIR'S COLUMN

As you read this article, the first meeting ever of the IEEE Standards Board outside of the United States will be history. The Standards Board has just returned from its June meeting in San Juan, Puerto Rico, hosted by Region 9 (Latin America). Thanks to all of those involved for making this meeting a success.

Our priorities continue to focus on furthering the effectiveness of IEEE's Standards Program through our transnational activities, technical cooperation with organizations around the world, and increased services to the volunteers.

A recent sign of the heightened awareness of the need for globalization is the IEEE Power Engineering Society's "Vision for the Future," a strategic new program led by John Estey and other key members of the society. The goal is to take steps to ensure that the PES is well prepared to meet the changing standards environment.

Cooperation with major standards organizations around the world takes

many forms. IEEE Standards has agreed to support the distribution of the new *IEC Multilingual Dictionary of Electricity, Electronics and Telecommunications*. As the exclusive North American distributor of this IEC Standard, the IEEE strives to broaden international communication and address standards users' needs.

The leadership training program that we promised in 1991 is now a reality, and has already been presented in two meeting locations, including a Medix meeting in Norway. This course is described on the page 10, and scheduled presentations will be included in each installment of the Calendar. Working group chairs and officers should consider this course a must. Call (908) 562-3804 for more information.

Sometimes increased efficiency can be accomplished by changing "the process," evidenced in the newly mechanized balloting service offered by staff. The Department began to offer a balloting service just over two years ago, and the volume has gone

from zero ballots to almost 200. To accommodate this, we now have an optical scanner that reads and validates ballots, and transfers the required information into the Department's database.

The year 1992 has already brought many of our objectives to fruition. The IEEE STANDARDS PRESS is releasing three new publications; new standards collections are being offered; the Power Cable Ampacity Tables are due for release in the fall; and on-site seminars continue to be requested. Even as we talk about 1992, the 1993 Standards Board Strategic Plan is taking shape, and we continue to see a bright future for the IEEE Standards Program.

*Marco W. Migliaro*

Marco W. Migliaro  
Vice President, IEEE Standards Activities

## IEEE Adopts ISO/IEC Style Directives

by Mary Lynne Nielsen

The IEEE Standards Department has taken steps to harmonize its style with that of ISO and IEC. This action will reduce structural and visual style elements that can impede the use and adoption of IEEE standards.

These changes, among others, will be reflected in the latest revision of the *IEEE Standards Style Manual*, available this month. The manual will include a number of significant changes from previous editions, for example:

- References can only be made to standards documents from standards-developing organizations. Any other type of publication must become a bibliographic entry.
- Notes will no longer be part of the standard unless they are notes to a table or figure.
- There will be nomenclature differences; for example, appendixes will be called informative annexes, all sections will be called clauses, and all subsections will be called subclauses.

- Lists will now be lettered lists rather than numbered lists.
- There will be a choice between issuing standards in two-column or one-column format.
- There will be additional minor changes to the appearance of IEEE standards.

IEEE is making exceptions to specific elements of ISO/IEC style. For example, the decimal point will continue to be represented by a period (rather than by a comma), and the structure of IEEE titles and front matter will be maintained. For more details, consult the 1992 *IEEE Standards Style Manual*.

This style is currently being introduced; with a few exceptions, after January 1, 1993, all standards will be prepared in this style. Please contact an IEEE Standards project editor for further information on this change and call (908) 562-3836 for a copy of the 1992 *IEEE Standards Style Manual*. ■

Mary Lynne Nielsen is an IEEE Standards Project Editor.



## IEEE Forms Committee on Metric Policy

by Bruce Barrow

At the request of IEEE President Merrill Buckley, the IEEE Standards Board is taking the lead in forming an ad hoc committee to make recommendations to the Board of Directors concerning an IEEE-wide metric policy. The mission of this committee is to develop a policy for IEEE that all interested parties can accept and support. All of the IEEE branches and entities will have an opportunity to participate.

The committee has not been given a mandate to foist metric change upon an unwilling membership. Rather, it has been charged to examine the relevant needs and desires of the IEEE constituency—the members and nonmembers who use IEEE standards and other IEEE technical publications, and the societies, trade associations, governmental bodies, and the like with which IEEE carries on its professional business.

To be sure, there are powerful pro-metric forces now at work within IEEE. Most obvious is the transnational character of the IEEE itself—of its 320 000+ members, 25% live outside the US, and that means that they live and work in metric countries. The transnational interests of the Institute also extend to the international marketplace of ideas, for many IEEE technical publications enjoy worldwide preeminence in their fields.

A second pro-metric force is the policy of the US Government to urge the US industrial base into a metric posture in order to promote international trade and commerce. Thus, the US Congress in the Omnibus Trade Act of 1988 declared that it is "the policy of the United States (1) to designate the metric system of measurement as the preferred system of weights and measurements for United States trade and commerce; (2) to require that each Federal agency, by a date certain and to the extent economically feasible by the end of the fiscal year 1992, use the metric system of measurements in its procurements, grants, and other business-related activities...." In July 1991, President Bush signed an executive order implementing this law and designating the Secretary of Commerce to direct and coordinate efforts of the Federal departments and agencies.

The chief anti-metric force is US inertia—tradition and custom, the large portion of US manufacturing still based on the inch, and the engineers and technicians who work in inch-pound units. Many inch-based standards are more widely used, even internationally, than their metric counterparts. And US government agencies are finding that their chief obstacle in complying with the congressional mandate is a lack of suitable metric standards.

Some portions of US industry (e.g.,

the automotive sector) have already converted to metric. In other areas, the conversion is proceeding slowly or not at all. Although an overall trend toward metric is unmistakably clear, the task of the IEEE Committee will be to identify when, how, and on what schedule the various activities of IEEE should "go metric," and to facilitate and coordinate conversion to metric practice according to the agreed schedule.

The Standards Board will invite the senior boards and committees of the Institute to appoint individuals to this new IEEE Committee. The Standards Board itself will be one of the prime players, both because it wishes to gain wider international recognition of IEEE standards and because demand for metric standards is growing within the US. There is obvious need for participation from other major IEEE boards—Publications, Regional Activities, Technical Activities, and US Activities, at least—and from many IEEE societies. The committee also wishes to hear from the "grass roots" of the larger IEEE constituency referred to above. To this end, we have established a special mail-drop at Piscataway. If you have read this far, and if you have an opinion—either for or against metrication—drop a line to: C. Goldsmith, IEEE, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. ■

Bruce B. Barrow is the Chair of the IEEE Committee on Metric Policy.

ATLAS. Used in conjunction with IEEE Std 716, this publication offers detailed instruction in the writing of test procedures and makes it easier for the ATLAS user to implement the standard to specific applications.

The *Nuclear EQ Sourcebook* compiles in one volume the latest information on nuclear equipment qualification. This publication contains IEEE EQ standards, recommended practices, and guides; Nuclear Regulatory Commission (NRC) published bulletins and letters; and NRC published regulatory guides.

The third edition of the *NESC Handbook*, edited by Allen Clapp, covers NESC requirements up to and including 1993, providing detailed discussions of various work rules and a useful historical perspective of the Code. The *NESC Handbook* is an essential reference for all NESC users. ■

## Windows to ... NEW VISTAS IN TECHNOLOGY

by Judith Gorman and Martin Schneider

Let's not allow the European Community target date of December 31, 1992, and the impact of this formalized common market on the world's markets totally distract us from the full scope of tomorrow's global picture. Because while the importance of developing new market strategies is of no mean significance, there are underlying and overpowering technological forces at work that are also shaping our futures, and these should be identified and understood by all, so that we can allocate our resources intelligently. The IEEE New Technology Directions Committee came up with a list of seven challenges in electrotechnology in order to contribute a visionary level of thinking to IEEE's overall strategic efforts. These statements are not only challenges, but also expressions of the directions in which humans and technology are clearly heading. The grand challenges for electrotechnology are as follows:

- To be or not to be reachable anytime, anywhere (wire-free and fiberless communications).
- To have instant access to all information (data bases, high-speed links, flat panel displays and interfaces).
- To be present or absent anytime, anywhere (virtual presence and reality).
- Abundant, clean, safe, and affordable energy.
- Intelligent highways and transportation systems (personal global navigation).
- The paperless office (flat panel, pen and tablet).
- The cashless society (electronic purse and wallet).

When you've caught your breath, think back to the notion of strategic planning. It has finally caught on at the highest levels of industry that standards are strategic. Governments, at least defense departments, have known this for some time.

Being able to trade in the new international marketplace requires knowledge of and adherence to—yes, indeed—

standards. Knowing your products adhere to mandated or preferred standards, being sure that your manufactured goods will meet conformance requirements—these are musts in today's and tomorrow's world markets. And manufacturers can enter into businesses without fear of making incompatible products—particularly as they contemplate trading across borders. Jobs are created because industry itself is more confident.

Some thoughts for those IEEE technical experts who are also standards skeptics: Prejudices against standards exist with the claim that standards are boring to develop, and that they represent a codification of out-of-date technologies and engineering practices. Wrong on both counts.

Most great products represent the result of marvelous and highly developed recipes, comparable to those created by the great chefs of France. And the process of deciding on the right recipe, especially amongst peers, is unique and exciting. As to currentness of standards technologies, they have bypassed the long-established-practice tradition and are becoming the vehicle for emerging technologies. In any case, we will always need some of the "classical" materials, such as symbols for units and quantities and standardized terminology, so that we can attempt to speak a common language.

A final thought: The creation of standards starts from the documentation of technical practices and procedures that are needed to perform tests or fabricate a product. The breeding ground for standards is the engineering report, paper given at a meeting, Conference Record, or Transaction, which contains a description of a recipe or procedure that can be successfully followed by your colleagues. If you can describe this process clearly and succinctly, you are the potential godfather or godmother of a new standard.

Judith Gorman is Associate Staff Director of IEEE Standards and Martin Schneider is IEEE Director, Division IV (Electromagnetics & Radiation).

### Awards Spotlight

The IEEE Standards Medallion is awarded for "outstanding achievement in the development and implementation of standards within the scope of the IEEE." On May 6, 1992, Neil Nichols of the Industrial and Commercial Power System Committee of the Industry Applications Society received this medallion for his contributions to I&CPS standards work.

*Congratulations!*

### ✕ Erratas ✕

- ☞ The phone numbers to call for new PAR forms and submittal kits that was published in the April 1992 issue were incorrect. If you need these documents, call (908) 562-3808 or 3836. Also, Carol Buonfiglio (3834) is in charge of all balloting, including balloting for the Computer Society. Annamarie Kaczmarek (3811) is in charge of forming Computer Society Balloting Groups.
- ☞ The section on revised PARs on page 10 in the April 1992 issue listed 13 projects with the core number, 1157. The appropriate society/committee acronym should have read: EMB/Medix, not EMB/MIB.
- ☞ The section on approved standards on page 10 in the April 1992 issue listed P1100 (The Emerald Book) as having been approved. This was an error; however, P1100 was approved in June 1992.





## RECENT IEEE STANDARDS PUBLICATIONS



### Aerospace and Electronics Society

**836-1991** IEEE Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers (ISBN 1-55937-167-6) [SH14753-NSR] \$50.00

### Broadcast Technology Society

**152-1991** IEEE Standard for Audio Program Level Measurement (ISBN 1-55937-190-0) [SH14977-NSR] \$35.00

### Communications Society

**1137-1991** IEEE Guide for the Implementation of Inductive Coordination Mitigation Techniques and Application (ISBN 1-55937-172-2) [SH14803-NSR] \$40.00

### Computer Society

**802.1i-1992** IEEE Supplement to Media Access Control (MAC) Bridges: Fibre Distributed Data Interface (FDDI) (Also packaged with IEEE Std 802.1D-1990) (ISBN 1-55937-215-X) [SH15198-NSR] \$10.00

**1101.1-1991** IEEE Standard for Mechanical Core Specifications for Microcomputers Using IEC 603.2 Connectors (ISBN 1-55937-171-4) [SH14795-NSR] \$48.50

**1175** IEEE Trial-Use Standard Reference Model for Computing System Tool Interconnections (ISBN 1-55937-197-8) [SH15057-NSR] \$65.50

**8802-5-1991** (ISO/IEC) (IEEE Std 802.5) Information Technology—Local and Metropolitan Area Networks—Part 1: Token Ring Access Method and Physical Layer Specifications (ISBN 1-55937-205-2) [SH15131-NSR] \$55.00

### Industry Applications Society

**142-1991** Recommended Practice for Grounding of Industrial and Commercial Power Systems (The Green Book) (ANSI) (ISBN 1-55937-141-2) [SH14498-NSR] \$42.00

### Power Electronics Society

**388-1992** IEEE Standard for Transformers and Inductors in Electronic Power Conversion Equipment (ISBN 1-55937-217-6) [SH15206-NSR] \$38.50

### Power Engineering Society

**81.2-1991** IEEE Guide for Measurement of Impedance and Safety Characteristics of Large, Extended or Interconnected Grounding Systems (ISBN 1-55937-187-0) [SH14944-NSR] \$50.50

**638-1992** IEEE Standard for Qualification of Class 1E Transformers for Nuclear Power Generating Stations (ISBN 1-55937-220-6) [SH15230-NSR] \$35.00

**649-1991** IEEE Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations (ANSI) (ISBN 1-55937-166-8) [SH14746-NSR] \$39.00

**1031-1991** IEEE Guide for a Detailed Functional Specification and Application of Static VAR Compensators (ANSI) (ISBN 1-55937-196-X) [SH15040-NSR] \$39.00

**1150** IEEE Trial-Use Recommended Practice for Integrating Power Plant Computer-Aided Engineering (CAE) Applications (ISBN 1-55937-173-0) [SH14811-NSR] \$45.00

**C37.09a-1991** Supplement to IEEE C37.09-1979 (ISBN 1-55937-203-6) [SH15115-NSR] FREE

**C37.59-1991** IEEE Standard Requirements for Conversion of Power Switchgear Equipment (ANSI) (ISBN 1-55937-227-3) [SH15321-NSR] \$35.00

**C37.122a-1991** Supplement to IEEE C37.122-1983, (Section 2.2.2: Pressurized Enclosures) (ISBN 1-55937-207-9) [SH15149-NSR] FREE

**C57.19.00-1991** IEEE Standard General Requirements and Test Procedure for Outdoor Power Apparatus Bushings (ISBN 1-55937-177-3) [SH14852-NSR] \$40.00

**C57.19.01-1991** IEEE Standard Performance Characteristics and Dimensions for Outdoor Apparatus Bushings (ISBN 1-55937-178-1) [SH14860-NSR] \$35.00

**C57.104-1991** IEEE Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers (ISBN 1-55937-157-9) [SH14654-NSR] \$41.50

**C57.106-1991** IEEE Guide for Acceptance and Maintenance of Insulating Oil in Equipment (ISBN 1-55937-208-7) [SH15164-NSR] \$40.00

**C57.124-1991** IEEE Recommended Practice for the Detection of Partial Discharge and the Measurement of Apparent Charge in Dry-Type Transformers (ISBN 1-55937-159-5) [SH14670-NSR] \$40.00

**C57.113-1991** IEEE Guide for Partial Discharge Measurement in Liquid-Filled Power Transformers and Shunt Reactors (ISBN 1-55937-199-4) [SH15073-NSR] \$39.50

### Published Standards of Accredited Standards Committees

**C2-1993** National Electrical Safety Code (ISBN 1-55937-210-9) [SH15172-NSR] \$39.50

**C63.4-1992** American National Standard Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ISBN 1-55937-212-5) [SH15180-NSR] \$52.00

### Special Publications

**802.1D-1990** IEEE Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Bridges now includes IEEE Std 802.1i-1992 (ISBN 1-55937-055-6) [SH13565-NSR] \$45.00

**1003.1-1988/INT, 1992 Edition**, IEEE Standards Interpretations for IEEE Standard Portable Operating System Interface for Computer Environments (IEEE Std 1003.1-1988) (ISBN 1-55937-216-8) [SH15313-NSR] \$45.00

**C2-1993 and NESC Handbook Set** [SH15339-NSR] \$80.00

**IEC Multilingual Dictionary** of Electricity, Electronics and Telecommunications (ISBN 1-55937-185-4) [SH15156-NSR] \$185.00

### Collections

**C62 Surge Protection Standards Collection**, Summer 1992 Edition (ISBN 1-55937-213-3) [SH15305-NSR] \$90.00

### IEEE Standards Press

**ATLAS Training Manual: A Handbook to IEEE C/ATLAS Std 716** (ISBN 1-55937-164-1) [SP00026-NSR] \$78.00

**NESC Handbook: Discussion of the National Electrical Safety Code, Third Edition** (ISBN 1-55937-211-7) [SP00042-NSR] \$65.00

**Nuclear EQ Sourcebook: A Compilation of Documents for Nuclear Equipment Qualification** (ISBN 1-55937-206-0) [SP00034-NSR] \$250.00

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## A Standards Perspective on Copyright

by Michelle Phillips

Whether you are developing or implementing a standard, maintaining a standards technical library, or just trying to keep abreast of the latest technology, the copyright notice on the standard affects the way in which you proceed.

After the recent Kinko's decision, in which Kinko's Copy Centers, Inc. was found guilty of copying documents without the author's prior consent, the internal copy centers of many companies became reluctant to reproduce copyrighted material without prior consent. Short of consulting the US Copyright Act of 1976 or contacting the Copyright Office, many people who need to copy material are left wondering how to determine if a document is copyrighted and whom they should contact to obtain the proper permission to copy the work. This column will try to shed some light on these and other issues.

### Copyright Basics

A common misunderstanding is that a document must be registered with the Copyright Office in order to secure protection under the law. In fact, the copyright on a document, including a standard, exists from the moment it is placed in tangible form. This means that whether the work is written on a piece of paper, typed on a computer screen, or even jotted down on a restaurant napkin, it is protected under Federal copyright legislation. The copyright on a composition protects only the expression of ideas, not the facts contained in that expression. Scientific discoveries, math equations, or historical theories cannot be copyrighted.

Although registration is not required to hold a copyright on a document, it does grant important legal privileges. In general, registering a document with the Copyright Office establishes a public record of the copyright claim and is

ordinarily necessary before any infringement suits may be filed in court.

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Before a standard can be published, IEEE Standards project editors check to make sure no copyrighted material was used in the document without permission. It is critical that IEEE Standards working groups secure permission to use any copyrighted materials in their standards (including material from other IEEE publications) before sending the document to the Standards Board for approval. Without written letters of per-

mission to use these copyrighted materials, publication of a standard can be delayed for many months while permissions are sought.

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*Michelle Phillips is Administrator of Copyrights and Research in the Standards Department.*



# IEEE STANDARDS BOARD ACTIONS

## APPROVED PARs FOR NEW STANDARDS

**P802.1m** (C/TCCC) Standard for System Load Protocol Supplement: Managed Object Definitions and Protocol Implementation Conformance Statement (PICS) Proforma

**P802.5p** (C/TCCC) Standard for Information Processing Systems—Local Area Networks—Part 2: Logical Link Control—Annex X: End System Route Determination

**P802.10e** (C/TCCC) Recommended Practice for Secure Data Exchange on Ethernet Version 2.0 in IEEE 802.3 Local Area Networks

**P896.4** (C/BA) Standard for Conformance Test Requirements for Futurebus+

**P1202.2** (IA/PSE) Standard for Measuring the Release Rate of Corrosive Gases of Wire and Cable for Use in Industrial and Commercial Occupancies

**P1280** (C/SCC) Standard for Information Technology—Data Access Language for Full-Text Information Systems: Structured Full-Text Query Language (SFQL)

**P1295.1** (C/SCC) Standard for Information Technology—X Window System—Modular Toolkit

**P1295.2** (C/SCC) Standard for Information Technology—X Window System—Open Toolkit Environment

**P1296.2** (C/MM) Standard for 20 MHz and Live Insertion Extensions to Multibus II

**P1299** (PE/IC) Guide for the Grounding of Surge Arresters to Protect Insulated, Shielded Conductors

**P1300** (PE/IC) Standard for Cable Connections for Gas Insulated Substations

**P1302** (EMC/SC) Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range DC to 18 GHz

**P1303** (PE/SUB) Guide for Static VAR Compensator Field Tests

**P1304** (PE/PSIM) Current Measuring Systems Which Use Optical Techniques

**P1305** (NNC) Recommended Definition of Terms for Artificial Neural Networks

**P1306** (NNC) Guidelines for the Evaluation of the Speed and Accuracy of Implementations of Feed-Forward Artificial Neural Networks

**P1307** (PE/T&D) Trial-Use Guide for Fall Prevention/Protection for the Electric Power Utility Industry

**P1308** (PE/T&D) Recommended Practice for Instrumentation: Specifications for Electric Field Strength and Magnetic Flux Density Meters—10 Hz to 2 kHz

**P1309** (EMC/SC) Standard for the Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz

**P1310** (PE/EM) Recommended Practice for Thermal Cycle Testing of Form Wound Coils and Bars

**P1312** (PE/TC) Standard for Preferred Voltage Ratings for Alternating-Current Electrical Systems and Equipment Operating at Voltages Above 230 kV Nominal

**P1313** (PE/TC) Standard for Power Systems—Insulation Coordination

**P1314** (LEO) Standard Test Method for Measuring Astigmatic Length of Semiconductor Lasers

**P1315** (LEO) Standard Test Method for Generating Far-Field Spatial Mode Distributors of Semiconductor Lasers, and Related Parameter Extraction Techniques

**P1316** (LEO) Standard Test Method for Generating the Characteristic Optical Output Power as a Function of Input Drive Current for Semiconductor Lasers, and Related Parameter Extraction Techniques

**P1317** (LEO) Standard Method for Measuring Feedback Noise in Semiconductor Lasers

**P1320** (C/SE) Standard IDEF Interface Definition Language (IDL)—User Guide and Glossary

**P1320.1** (C/SE) Standard Syntax and Semantics for the ICAM Definition Language—Function Modeling (IDEF0)

**P1320.1.1** (C/SE) Standard User's Manual for the ICAM Function Modeling Method—IDEF0

**P1320.2** (C/SE) Standard Syntax and Semantics for the ICAM Definition Language—Information Modeling Extended (IDEF1X)

**P1320.2.1** (C/SE) Standard User's Manual for the ICAM Information Modeling Method (IDEF1X)

**PC37.122.1** (PE/SUB) Guide for Gas-Insulated Substations

**PC57.12.44** (PE/TC) Standard Requirements for Secondary Network Protectors

**PC57.12.70** (PE/TR) Terminal Markings and Connections for Distribution and Power Transformers

**PY10.20** (SCC14) Standard Mathematical Signs and Symbols for Use in Physical Sciences and Technology

## APPROVED PARs FOR STANDARDS REVISIONS

**P260** (SCC14) Standard Letter Symbols for Units of Measurement

**P446** (IA/PSE) Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications

**P475** (EMC/SC) Standard Measurement Procedure for Field-Disturbance Sensors

**P482** (EMC/SC) Recommended Practice for Testing of Cable, Cable Assemblies and Connector Shielding Properties in the Frequency Range from DC to 40 GHz

**P691** (PE/T&D) Guide for Transmission Structure Foundation Design and Testing

**P979** (PE/SUB) Guide for Substation Fire Protection

**P1005** (ED) Standard Definitions, Symbols and Characterization of Floating-Gate Memory Arrays

**P1193** (IM/F&T) Guidelines for Measurement of Environmental Sensitivities of Standard Frequency Generators

**PC37.122** (PE/SUB) Standard for Gas-Insulated Substations

**PC57.12.00** (PE/TR) Standard General Requirements for Liquid-Immersed Distribution, Power and Regulating Transformers

**PC57.12.90** (PE/TR) Standard Test Code for Liquid-Immersed Distribution, Power and Regulating Transformers

## REVISED PARs

**P115** (PE/EM) Guide: Test Procedures for Synchronous Machines Part I: Acceptance and Performance Testing; Part II: Test Procedures and Parameter Determination for Dynamic Analysis

**P839** (IA/EM) Procedures for Testing Single-Phase and Polyphase Induction Motors for Use in Hermetic Compressors

**P1003.5** (C/OS) Standard for Information Technology—POSIX Ada Language Interfaces—Part 1: Binding for System API

**P1068** (IA/PCI) Recommended Practice for Repair and Rewinding of Motors for the Petroleum and Chemical Industry

**P1101.3** (C/BA) Mechanical Standard for Conduction and Air Cooled 10SU Modules

**P1202.1** (IA/PE) Standard for Measuring the Release Rates of Smoke and Heat of Wire and Cable for Use in Industrial and Commercial Occupancies

## APPROVAL OF NEW STANDARDS

**999** (PE/SUB) Recommended Practice for Master/Remote SCADA Communication

**1003.5** (C/OS) Standard for Information Technology—POSIX Ada Language Interfaces—Part 1: Binding for System API

**1003.9** (C/OS) Standard for Information Technology—POSIX FORTRAN 77 Language Interfaces—Part 1: Binding for System API

**1100** (IA/PSE) Recommended Practice for Powering and Grounding Sensitive Electronic Equipment

**1101.2** (C/MM) Standard for Mechanical Core Specification for Conduction Cooled Eurocards

**1129** (PE/EM) Recommended Practice for Monitoring and Instrumentation of Turbine Generators

## ACRONYMS

AES/GAP	Aerospace & Electronic Systems/Gyro & Accelerometer Panel
C/BA	Computer/Bus Architectures
C/DASS	Computer/Design Automation Standards Subcommittee
C/MM	Computer/Microprocessor & Microcomputer
C/SCC	Computer/Standards Coordinating Committee
C/OS	Computer/Operating Systems and Application Environments
C/SE	Computer/Software Engineering
C/TCCC	Computer/Technical Committee
COM/Trans SysCom	Communications/Transmission Systems Committee
ED	Electron Devices
EMC/SC	Electromagnetic Compatibility/Standards Committee
IA/EM	Industry Applications/Electric Machines
IA/ID	Industry Applications/Industrial Drives
IA/PCI	Industry Applications/Petroleum & Chemical Industry
IA/PSE	Industry Applications/Power Systems Engineering
IM/AI	Instrumentation & Measurement/Automated Instrumentation
IM/F&T	Instrumentation & Measurement/Time & Frequency
LEO	Laser & Electro-Optics Society
NNC	Neural Network Council
PAR	Project Authorization Request
PE/ED&PG	Power Engineering/Energy Development & Power Generation
PE/EM	Power Engineering/Electric Machinery
PE/IC	Power Engineering/Insulated Conductors
PE/TC	Power Engineering/Technical Council
PE/NPE	Power Engineering/Nuclear Power Engineering
PE/PSC	Power Engineering/Power Systems Communications
PE/PSIM	Power Engineering/Power Systems Instrumentation & Measurements
PE/PSR	Power Engineering/Power Systems Relaying
PE/SPD	Power Engineering/Surge-Protective Devices
PE/SUB	Power Engineering/Substations
PE/SWG	Power Engineering/Switchgear
PE/T&D	Power Engineering/Transmission & Distribution
PE/TR	Power Engineering/Transformers
SCC14	Standards Coordinating Committee 14 (Quantities, Units, and Letter Symbols)

## APPROVAL OF REVISED STANDARDS

**269** (COM/TranSysCom) Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets

**275** (PE/EM) Recommended Practice for Thermal Evaluation of Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils, Machines Rated 6900 V and Below

**384** (PE/NPE) Standard Criteria for Independence of Class 1E Equipment and Circuits

**432** (PE/EM) Guide for Insulation Maintenance for Rotating Electrical Machinery (5 hp to less than 10 000 hp)

**488.2** (IM/AI) Standard Codes, Formats, Protocols, and Common Commands for Use with IEEE Std 488.1-1987

**519** (IA/ID & PE/T&D) Recommended Practices and Requirements for Harmonic Control in Electric Power Systems

**522** (PE/EM) Guide for Testing Twin-to-Turn Insulation on Form-Wound Stator Coils for Alternating-Current Rotating Electric Machines

**524** (PE/T&D) Guide to the Installation of Overhead Transmission Line Conductors

**C37.30** (PE/SWG) Standard Requirements for High-Voltage Air Switches

**C57.12.26** (PE/TR) Standard for Transformers Pad-Mounted, Compartmental-Type, Self-Cooled, Three-Phase Distribution Transformers for Use with Separable Insulated High-Voltage Connectors: High-Voltage (34 500 GrdY/19 920 Volts and Below, 2500 kVA and Smaller)

**C57.13** (PE/TR) Standard Requirements for Instrument Transformers

**C62.92.5** (PE/SPD) Guide for the Application of Neutral Grounding in Electric Utility Systems, Part V—Transmission Systems and Subtransmission Systems

## REAFFIRMED STANDARDS

**317** (PE/NPE) Standard for Electrical Penetration Assemblies in Containment Structures for Nuclear Power Generating Stations

**337** (AES/GAP) Standard Specification Format Guide and Test Procedure for Linear, Single-Axis, Pendulous, Analog Torque Balance Accelerometer

**415** (PE/NPE) Guide for Planning of Pre-operational Testing Programs for Class 1E Power Generating Stations

**455** (COM/TranSysCom) Standard Test Procedure for Measuring Longitudinal Balance of Telephone Equipment

**530** (AES/GAP) Standard Specification Format Guide and Test Procedure for Linear, Single-Axis, Digital, Torque Balance Accelerometer

**572** (PE/NPE) Standard for Qualification of Class 1E Connection Assemblies for Nuclear Power Generating Stations

**577** (PE/NPE) Standard Requirements for Reliability Analysis in Design and Operation of Safety Systems for Nuclear Power Generating Stations

**805** (PE/ED&PG) Recommended Practice for System Identification in Nuclear Power Plants and Related Facilities

**820** (COM/TranSysCom) Standard Telephone Loop Performance Characteristics

**C37.20.1** (PE/SWG) Standard for Metal-Enclosed Low-Voltage Power Circuit-Breaker Switchgear

**C37.20.2** (PE/SWG) Standard for Metal-Clad and Station-Type Cubicle Switchgear

**C37.20.3** (PE/SWG) Standard for Metal-Enclosed Interrupter Switchgear

**C37.27** (PE/SWG) Standard Application Guide for Low-Voltage AC Non-integrally Fused Power Circuit Breakers (Using Separately Mounted Current-Limiting Fuses)

**C37.35** (PE/SWG) Guide for Application, Installation, Operation and Maintenance of High-Voltage Air-Disconnecting and Load Interrupter Switches

**C37.48** (PE/SWG) Guide for Application, Operation and Maintenance of High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches and Accessories

**C37.60** (PE/SWG) Standard Requirements for Overhead, Pad-Mounted, Dry-Vault and Submersible Automatic Circuit Reclosers and Fault Interrupters for AC Systems

**C37.61** (PE/SWG) Standard Guide for the Application, Operation, and Maintenance of Automatic Circuit Reclosers

**C37.82** (PE/SWG) Standard for Qualification of Switchgear Assemblies for Class 1E Applications in Nuclear Power Generating Stations

**C37.106** (PE/PSR) Guide for Abnormal Frequency Protection for Power Generating Plants

**C57.12.70** (PE/TR) Terminal Markings and Connections for Distribution and Power Transformers

**C57.105** (PE/TR) Guide for Application of Transformer Connections in Three-Phase Distribution Systems

**C57.117** (PE/TR) Guide for Reporting Failure Data for Power Transformers and Shunt Reactors on Electric Utility Power Systems

## ADOPTED AS FULL-USE STANDARD

**C57.19.101** (PE/TR) Guide for Loading Power Apparatus Bushings

## WITHDRAWN STANDARDS

**770X3.97** (C/Joint Pascal Standards Committee) Pascal Computer Programming Language

**1051** (COM/TranSysCom) Recommended Practice for Parameters to Characterize Digital Loop Performance



## Leadership Training Launched

In response to a directive from the IEEE Standards Board, the Standards Department has designed and created a new, result-oriented seminar, suitable for all standards working-group members, that will help to make the efforts of standards writers and the process of consensus standards development more effective and efficient.

As IEEE Standards gain worldwide acceptance, and fast-changing technologies are introduced, there is a need to shorten the standards-development process. IEEE Standards is introducing a

new initiative for volunteers whose fields of interest bring them into the standards-development arena. The goal is to provide the tools needed to produce standards in as short a period of time as possible, while carefully following the rules that govern good standards practice.

It is imperative that standards writers have a practical guide to the standards-development process. The leadership training seminar is designed to meet this need and to be suitable for all working-group members; it can also be tailored to meet the individual work

ing-group needs. This seminar covers such topics of concern as the legal responsibilities of standards writers, the stages of standards development, effective meeting management, the consensus and approval processes, and the editing and publishing of the approved document.

This new seminar represents another step forward in the Standards Department's aim to provide improved services to standards writers, and to enhance and expedite the standards-development process. ■

*The IEEE Standards Board formally congratulates the Chairs, Vice Chairs, and Special Contributor listed below as well as their working groups on the publication of their new or revised standard.*



**Dinkar Mukhedkar** (Deceased), Chair: 81.2-1991 IEEE Guide for Measurement of Impedance and Safety Characteristics of Large, Extended or Interconnected Grounding Systems

**Gordon Johnson**, Chair: 142-1991 IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems (The Green Book)

**R.N. Hoffner**, Chair, and **K.G. Dauphinee**, Past Chair: 152-1991 IEEE Standard for Audio Program Level Measurement

**H. Fickenscher**, Chair, **R.L. Sell**, Vice Chair, and **P.K. Goethe**, Past Chair: 388-1992 IEEE Standard for Transformers and Inductors in Electronic Power Conversion Equipment

**L. Stensland**, Chair: 638-1992 IEEE Standard for Qualification of Class 1E Transformers for Nuclear Power Generating Stations

**Ed F. Sproat**, Chair: 649-1991 IEEE Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations

**J.E. Stoner, Jr.**, Chair: 666-1991 IEEE Design Guide for Electric Power Service Systems for Generating Stations

**William P. Lidinsky** and **Mick Seaman**, Chairs: 802.1i-1992 IEEE Supplement to Media Access Control (MAC) Bridges: Fibre Distributed Data Interface (FDDI)

**Rex B. Peters**, 836-1991 IEEE Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers

**Al Lowenstein**, Chair: 1029.1-1991 IEEE Standard for Waveform and Vector Exchange (WAVES)

**P. R. Nannery**, Chair: 1031-1991 IEEE Guide for a Detailed Functional Specification and Application of Static VAR Compensators

**Eike Walz**, Chair: 1101.1-1991 IEEE Standard for Mechanical Core Specifications for Microcomputers Using IEC 603.2 Connectors

**David Lee Boneau**, Chair: 1137-1991 IEEE Guide for the Implementation of Inductive Coordination Mitigation Techniques and Application

**Allen L. Clapp** Chair: C2-1993 National Electrical Safety Code

**P.W. Dwyer**, Chair: C37.59-1991 IEEE Standard Requirements for Conversion of Power Switchgear Equipment

**Loren B. Wagenaar**, Chair: C57.19.00-1991 IEEE Standard General Requirements and Test Procedure for Outdoor Power Apparatus Bushings and C57.19.01-1991 IEEE Standard Performance Characteristics and Dimensions for Outdoor Apparatus Bushings

**H. A. Pearce**, Chair: C57.104-1991 IEEE Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers and C57.106-1991 IEEE Guide for Acceptance and Maintenance of Insulating Oil in Equipment

**G.H. Vaillancourt**, Chair: C57.113-1991 IEEE Guide for Partial Discharge Measurement in Liquid-Filled Power Transformers and Shunt Reactors

**Alexander B. Kline**, Chair: C57.124-1991 IEEE Recommended Practice for the Detection of Partial Discharge and the Measurement of Apparent Charge in Dry-Type Transformers

**Ralph M. Showers**, Chair: C63.4-1992 American National Standard Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

### Collection

**Joseph Koepfinger**, Special Contributor: C62 Surge Protection Standards Collection, Summer 1992 Edition

### Special Publication

**Richard L. Wiker**, Chair: 1003.1-1988/INT, 1992 Edition IEEE Standards Interpretations for IEEE Standard Portable Operating System Interface for Computer Environments (IEEE Std 1003.1-1988)

**Robert A. Esterbrook**, Chair: 1150 IEEE Trial-Use Recommended Practice for Integrating Power Plant Computer-Aided Engineering (CAE) Applications

**Robert M. Posten**, Chair: 1175 IEEE Trial-Use Standard Reference Model for Computing System Tool Interconnections

**Robert A. Donnan**, Chair: 8802-5-1991 (ISO/IEC) (IEEE Std 802.5) Information Technology—Local and Metropolitan Area Networks—Part 1: Token Ring Access Method and Physical Layer Specifications

## CALENDAR OF EVENTS

### August

#### Changes in the 1993 NESC

This seminar will be presented in the following cities in August on the dates indicated below:

- 4 Boston, MA
- 5 New York, NY
- 6 Hauppauge, NY
- 10 Philadelphia, PA
- 10 Phoenix, AZ
- 11 Baltimore, MD
- 11 Las Vegas, NV
- 12 Washington, DC
- 12 Salt Lake City, UT
- 13 Portland, OR
- 13 Raleigh, NC
- 18 Tampa, FL
- 19 Atlanta, GA
- 20 Dallas, TX

(Call Mary Zwiebel at (908) 562-3804 for more seminar information.)

4-6 **SCC11 (Graphic Symbols & Designations) Meeting**  
Piscataway, NJ

7 **Deadline for draft and PAR submission for September Standards Board meeting**

10-13 **Ada Based Environment for Test—Subcommittee of SCC20 (ATLAS) Meeting and (AI-ESTATE Subcommittee of SCC 20**  
Arlington, VA

17-21 **EMC Society Symposium**  
Anaheim, CA

### September

9 **Changes in the 1993 NESC**  
St. Louis, MO

9-11 **Protection of Co-Generation Plants Seminar**  
Milwaukee, WI

10 **Changes in the 1993 NESC**  
Denver, CO

14 **Changes in the 1993 NESC**  
Detroit, MI

14 **Microprocessor Standards Committee (MSC) Meeting**  
San Francisco, CA

14-16 **C12 Subcommittee Meetings**  
San Francisco, CA

14-17 **Power System Relaying Committee Meeting**  
Milwaukee, WI

15 **Changes in the 1993 NESC**  
Chicago, IL

15-16 **IEEE Standards Board Committee Meetings**  
New York City, NY

15-17 **Midcon Trade Show**  
Dallas, TX

16 **Changes in the 1993 NESC**  
Minneapolis, MN

17 **IEEE Standards Board Meeting**  
New York City, NY

17-19 **JTC1/SC7 TAG Meeting**  
Nashua, NH;  
contact person—Roger Fugii, Chair, US TAG for JTC1/SC7, Logicon, Inc., 222 West Sixth St., San Pedro, CA 90733, (213) 831-0611

21-25 **Surge Protective Devices Committee Meeting (PES)**  
Kansas City, MO

23-24 **Nuclear Power Engineering Committee Meeting**  
Tucson, AZ

28-30 **Petroleum & Chemical Industry Technical Conference (PCIC)**  
San Antonio, TX

28- **International Electrotechnical Commission (IEC) General Meeting**  
Rotterdam, The Netherlands

### October

4-9 **IAS Annual Meeting**  
Houston, TX  
(Leadership Training Seminar offered)

18-21 **Transformers Committee (PES)**  
Cleveland, OH

18 **US TAG for ISO/IEC JTC1/SC22/WG15 Meeting**  
(venue to be announced); contact person—Donn Terry, Chair, US TAG for JTC1/SC22/WG15, Hewlett Packard, 3404 East Harmony Road, Fort Collins, CO 80525, (303) 229-2367.

19-23 **P1003 (POSIX) Committee Meeting**  
Utrecht, The Netherlands

23 **Deadline for draft and PAR submission for December Standards Board meeting**

27 **SCC14 Meeting (Quantities, Units & Letter Symbols)**  
Washington, DC

29- **14th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (MBS)**  
Paris, France

### November

2-4 **Industrial and Commercial Power Systems Seminar**  
New Orleans, LA

8-11 **Insulated Conductors Committee Meeting**  
St. Petersburg, FL

9 **Microprocessor Standards Committee (MSC) Meeting**  
San Francisco, CA

9-13 **Bus Architecture Standards Committee (BASC) Meeting**  
San Antonio, TX

9-13 **P802 (Local and Metropolitan Area Networks) Committee Meeting**  
La Jolla, CA

18 **Standards Activities Board (SAB) of the IEEE Computer Society Standards Coordinating Committee Meeting**



## Standards Board *(Continued from front cover)*

Photos courtesy of William Rodriguez



Marco Migliaro presents Certificates of Appreciation to William Rodriguez, Carlos Rivera Abrams, Felix Torres, and Luis Gandia. Juan R. Castanera also received a Certificate.

President, at the Awards Luncheon on June 16th, in front of members of local industry, the local IEEE section, and his Standards Board peers. Congratulations, Don!

The luncheon also featured an opening address from Luis Gandia and a keynote presentation on standards as a key element in world trade, delivered by John Rankine. Certificates of Appreciation were presented during the luncheon to members of the local IEEE section for their contributions toward making the Standards week in Puerto Rico such a success.

### *Standards Forum: ANSI's Blue Ribbon Panel*

On June 17th, the IEEE Standards Board Forum took place. With Manny Peralta, President of ANSI, in attendance, Dick Schulte of the ANSI Board of Directors delivered a presentation on ANSI's Blue Ribbon Panel to IEEE Standards Board members and staff.

As Chair of the Panel, Mr. Schulte explained that the Panel was launched in 1989 with the mission to facilitate the establishment of a federation of Standards Developers to support the

US voluntary system of standardization. The Panel's aim is to improve the current standardization system by better responding to the evolving needs of ANSI members and by providing leadership in advancing US standardization technology and processes.

He also identified key issues being addressed by the 17-member Panel, including the question of ANSI's role in coordinating US voluntary standardization systems and its involvement in the international standardization process. During a question and answer period, members of the IEEE Standards Board and ANSI openly exchanged and debated ideas.

As Vice President of Standards Marco Migliaro brought the week's events to a close at Thursday's Board meeting, he noted with satisfaction that this set of meetings gave many IEEE members from the region a chance to participate in and observe the Standards Board in action. As a result, this week was surely a high point in the year for the IEEE Standards Board.

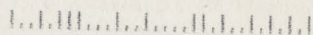
*Michelle Curtis is Marketing Manager of the Standards Department.*



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