

**ELECTROMAGNETIC COMPATIBILITY SOCIETY  
STANDARDS DEVELOPMENT COMMITTEE CORRESPONDENCE**

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May 26, 1999  
SUMMARY OF THE IEEE  
EMCS STANDARDS DEVELOPMENT COMMITTEE MEETING  
May 19<sup>th</sup>, 1999  
Tokyo, JAPAN

The following is a brief summary of the attached minutes:

- The meeting had a total attendance of 22 attendees, 7 SCOM members and 15 guests. The secretary had 4 proxies from absent committee members.
- The Chair gave a presentation of EMC Standards development process.
- The Secretary presented IEEE EMCS Standards on-line collection by actual Web access display.
- Alexander Worshevsky made a special presentation on EMCS measurements, visiting his Web site <http://private-win.convey.ru/elemcom/> and providing interactive training programs.
- Standards 139 completed re-affirmation. Standard 1140 is started the re-affirmation process.
- Standards 140, 187, 299, 376, 377, 473, 1128, 1302 and 1309 are current with no W/G activity.
- Standard 213 was withdrawn and C63 reference will need to be eliminated.
- Standard 475 is finally making progress with new W/G Chair Hugh Denny. Hugh is addressing key concerns and modification of the document and routing for confirmation is required. The standard was re-affirmed in 1994.
- PAR 1530 is active work led by Bud Hoefft for establishing cable connector shielding measurement guidelines. There was a concern raised on the visibility of a formal document outline.
- Progress is being made on a new proposed Filter PAR – work proposed by Kermit Phipps. He will make a formal presentation at Seattle SDCOM meetings in August 1999.
- Progress is being made on Policy & Procedures and Operations Manuals and preliminary audit findings.

Respectfully Submitted,

David L. Traver - Secretary EMCS SDCOM

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May 26, 1999

MINUTES OF THE IEEE  
EMCS STANDARDS DEVELOPMENT COMMITTEE MEETING  
May 19, 1999  
Tokyo, JAPAN

**MEMBERS PRESENT**

Donald N. Heirman	Chair	David Traver	Secretary
Donald Sweeney	Email/Coordination	Andrew Drozd	Policy/Procedures
Joe Butler		Dan Hoolihan	Awards Co-Chair
Risaburo Sato			

**MEMBERS ABSENT**

Stephen Berger	Vice Chair (proxy to DT)	John Kraemer	(proxy to DT)
Ed Bronaugh		Ralph Showers	(proxy to DT)
Hugh Denny	(P1302) (proxy to DT)	Thurman Ritenour	Awards Co-Chair

**OTHERS PRESENT**

Elya B. Joffe	IEEE Member	Donald Bush	IEEE Member
Masahiro Inoue	Matsushita Electric	Alexander Worshevsky	St Petersburg -Tech.Univ.
Michirio Yoshida	Daikin Industries	Hiroyasu Ota	EMC Laboratories
Toru Harada	Murata Manufacturing	Masuo Okamura	Japan QA Organization
Yoji Nagasawa	Kagoshima University	Shinichi Shinohara	EMC Laboratorities
Fujio Amemiya	NTT Lifestyle& ENV labs.	Norio Itoh	EMC Laboratories
Yoko Watanabe	EMC Laboratories	Gery S. Pettit	Intel Corp.
		Kazuhiro Takahashi	Olympus Japan

**ADDITIONAL MINUTES DISTRIBUTION**

Sue Vogel	IEEE Liaison	Janet O'Neil	EMCS Sec.
Todd Hubing	TAC		

**ELECTROMAGNETIC COMPATIBILITY SOCIETY  
STANDARDS DEVELOPMENT COMMITTEE CORRESPONDENCE  
Tokyo JAPAN – Chuo University - SDCOM Meeting  
May 19, 1999- Final Agenda**

***PART 1 – 9am to 12 noon***

0.0	Call to Order -	Heirman
1.0	IEEE EMCS Standardization Program	Heirman
2.0	Standards Development Presentation	
2.1	How to propose a Standard	
2.2	How to join a W/G	
2.3	How to develop Local Standards activities	
2.4	IEEE EMCS Standards	
2.5	IEEE EMCS Standard Collection on-line	
3.0	Summary and Questions	
4.0	EMCS VP for Standards Activities and Opportunities	Heirman
4.1	IEEE Standards Development Committee	SDCom
4.2	IEEE Standards Education and Training Committee	SETCom
4.3	IEEE EMCS Standards Advisory and Coordination Committee	SACCom

Summary & Questions

Special Presentation by Alexander Worshevsky - St. Petersburg Marine Technical University

Lunch Break

***PART 2 –1pm to 4:30pm***

5.0	Call to Order	Heirman
6.0	Approval of Agenda	Heirman
7.0	Approval of Minutes – New Brunswick NJ – Nov. 13, 1998	Traver
8.0	New Member & 1999 Re-confirmation Status	Traver
9.0	SDCom P&P Audit – Final Report	Traver
10.0	Operation Manual	Heirman
11.0	Review of Standards Status	Traver
	STD 139 -Rec. Meas. of RF from ISM Equip	(Current)
	STD 140 -Interference from Radio Htg Equip	(Current)
	STD 187 -FM and TV Broadcast Receivers	(Current)
	STD 213 -Cond. Emissions TV & FM Receivers	(Current)
	STD 299 -Effectiveness of Shielded Enclosures	(Current)
	STD 376 -Meas. of Impulse Strength/Bandwidth	(Current)
	STD 377 -Land Mobile Communication Xmtrs	(Current)
	STD 473 -Site Survey	(Current)
	P475 -Meas. for Field Disturbance Sensor	Denny
	STD 1128 -RF Absorber	(Current)
	STD 1140 -ELF/VLF VDT	(Current)
	STD 1302 -Gasket Effectiveness	(Current)
	STD 1309 -Cal. of EM Probes & Sensors	(Current)
	P1530 -Cable & Connector Cal. Artifacts	Hoeft
	Proposed New PAR (Filter PAR – Kermit Phipps) –Status & Update	Traver
12.0	Generate a Contact and Organization list for future Standards	Heirman
13.0	Officer Election Report	Heirman
14.0	Next Meeting & 1999 -Seattle Washington, August 2 <sup>nd</sup> and 4 <sup>th</sup> , 1999	Heirman
15.0	Adjournment	Heirman

**MINUTES –Wednesday May 19, 1999**  
**IEEE EMCS Standards Development Committee**  
**9 a.m. to 4:30 p.m.**

***PART 1: 9 a.m. to 12 noon***

**0.0 Call to Order & Introductions -**

The Chair, Donald Heirman, opened the SCOM meeting at Chuo University in Tokyo Japan at 9 am. There were 22 attendees which included 7 committee members and 4 proxies held by the Secretary. **See Attachment A.**

**1.0 IEEE EMCS Standardization Program**

The Chair gave an explanation of the IEEE EMCS Standardization Program.

**2.0 Standards Development Presentation**

The Chair presented a slightly modified presentation prepared by the secretary on the IEEE EMCS Standards Development process. In addition the secretary provided real time on-line Web based IEEE EMCS Standards Collection On-line as a promotion of electronic standard distribution. The Chair explained that the collection contained many additional standards related to EMC other than just the SDCOM standards. **See Attachment B.**

**3.0 Summary and Questions**

The Chair presented a summary and asked for questions from the audience.

**4.0 EMCS VP for Standards Activities and Opportunities**

The Chair described the three different Standards committees, SDCOM, SETCOM and SACOM and the related organization. Coordination with other SDO's were other points discussed.

**SPECIAL PRESENTATION BY Alexander Worshevsky - St. Petersburg Marine Technical University**

The Chair provided Alexander Worshevsky time to present EMC educational materials developed by Mr. Worshevsky. The demonstration included an interactive PC software based tutorial on several EMC measurement processes. Immunity, radiation measurement methods, calculation methods and brief "fill in the answer" type tests that test the students understanding of the basic EMC measurement were demonstrated. The committee secretary also accessed Dr. Worshevsky's Web site during the demonstration to show the audience the site for future access and reference. The site also has a direct link to the IEEE EMCS web-page.

<http://private-win.convey.ru/elemcom/>. **See Attachment C.**

**LUNCH BREAK**

***PART 2: 1 p.m. to 4:30 p.m.***

**5.0 Call to order**

The Chair called the business portion of the Standards Development Committee to order.

**6.0 Approval of agenda**

The Chair proposed acceptance of the modified agenda.

**7.0 Approval of Minutes – New Brunswick, NJ – November 13, 1998**

The secretary submitted the previous meeting minutes for approval. There were corrections to page one and two to add the term Development to the committee name. There was a request to strike the first sentence in section 9.0 Awards report: ~~Andrew Drozd gave an update on awards being submitted.~~ A motion to approve the minutes as corrected was seconded and passed with one abstention by the secretary. **See Attachment D.**

**8.0 New Member & 1999 Re-Confirmation Status**

**8.1 Mike Hart Ballot Result**

The secretary reported that he had completed the ballot for Mike Hart's election to SDCOM and the result was that he was not elected using the existing 75% -75% rule for ballots. 100% or 15 SDCOM members returned their ballot so it qualified as an official ballot. However, only 66% (10) were affirmative and

33% (5) negative. Only the summary is provided as an attachment and original ballots destroyed. **See Attachment E.**

*Action Item: Chair/Heirman notify Mike Hart of the result officially.*

## **8.2 1999 SDCOM Reconfirmation Report**

The secretary reported on the reaffirmation for SDCOM membership for the year 1999. As of the meeting

In Tokyo, only 11 members had officially re-confirmed for 1999. In addition, the secretary reported that John Osburn had resigned. Donald Sweeney, Dr. Showers and Bill Ritenour had not yet returned their confirmation letters. There was confusion on the "re-confirmation letter and the Letter of support". A motion was made and passed to accept the letter of annual re-confirmation as acceptance of support. Don Sweeney indicated verbally that he intended to remain on the committee for 1999. With the re-confirmation of all members, the secretary said that the SDCOM would be at 13 members for 1999. **See Attachment F.**

*Action: Secretary/Traver – follow up with remaining members for 1999 reconfirmation*

## **9.0 SDCOM P&P Audit – Final Report**

Andrew Drozd presented the final audit report. The report summary indicated that "the secretary's records are well assembled, chronologically filed, readily accessible, and easily verifiable." There were several recommendations and suggestions to improve the process and correct the deficiencies. **See Attachment G.**

The nonconformance list included:

- a) Evidence of a balanced membership
- b) Proof of participation in SA
- c) Member recruits replacement at end of term
- d) Letter of appointment of SDCOM to WG Chair
- e) 2 year letter of commitment
- f) Letter of re-confirmation
- g) Letter of appointment or nomination of ASC's on file.

## **10.0 Operation Manual**

The chair indicated that Hugh Denny continues to make progress on the Operations manual and encouraged SDCOM members to give their input to Hugh.

## **11.0 Standards Status**

### **STD 139**

IEEE recommended practice for the Measurement of Radio Frequency Emissions from Industrial, Scientific, and Medical (ISM) Equipment Installed on the User's Premises.

- Reaffirmed in 1999 at REVCOM. **See Attachment H.**

### **STD 140 -**

IEEE Recommended practice for the Minimization of Interference from Radio Heating Equipment

- Reaffirmed in 1995.

### **STD 187 -**

IEEE Standard on Radio Receivers: Open Field Method of Measurement of Spurious Radiation from FM and Television Broadcast Receivers.

- Reaffirmed in 1995.

### **STD 213 -**

IEEE Standard Procedure for Measuring Conducted Emissions in the Range of 300kHz to 25MHz from Television and FM Broadcast Receivers to Power Lines

- Reaffirmed in July 1998. A motion was made to withdraw the standard it was passed with two abstentions (4 ayes, zero no's 2 abstentions - proxies 3 ayes, zero no's and 3 abstentions)

*Action: Traver draft a letter to FCC and C63 to inform them of Committee action.*

### **STD 299 -**

IEEE Standard method of measuring the effectiveness of the electromagnetic shielding enclosures.

-Published April 21, 1998.

**STD 376 -**

IEEE Standard for the Measurement of Impulse Bandwidth  
-Reaffirmed July 1998.

**STD 377 -**

IEEE Recommended Practice for the Measurement of Spurious Emissions from Land-Mobile Communications Transmitters  
-Reaffirmed June 1997.

**STD 473 -**

IEEE Recommended Practice for an Electromagnetic Site Survey.  
-Reaffirmed June 1997.

**STD 475-1983**

IEEE Measurement Procedure for Field Disturbance Sensor (rf Intrusion Alarm).  
-Revision in progress. Hugh Denny is now W/G chair and submitted notice of change to IEEE. He is working on last draft #5 and attempting to resolve negative vote. It appears that the negative comment has merit and modifications and re-circulation will be required. [See Attachment I.](#)

**STD 1128-1992**

Recommended Practice for RF Absorber Performance Evaluation in the Range 30 MHz to 5 GHz.  
-Published in 1998.

**STD 1140-1991**

Standard Procedures for the Measurement of Electric and Magnetic Fields from Video Display Terminals (VDT's) from 5 Hz to 400 kHz.  
-Published in June 1994. Review is due in 1998. The secretary indicated that he had started the re-affirmation process even though no notification was received from the IEEE. [See Attachment J.](#)

*Action Item: Traver/Secretary complete re-affirmation ballot*

**STD 1302 -**

Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range DC to 18 GHz.  
-Published in 1998.

**STD 1309**

IEEE Standard for the Calibration of Electromagnetic Field Sensors.  
-Published 1996

**P1530**

Recommended Practice for the Design and Construction of Calibration Artifacts for Cable and Connector Shielding Test Fixtures for Frequencies from 1Hz to 10GHz  
- Active PAR 1998. W/G Chair, Bud Hoeft submitted a W/G report dated May 6, 1999. The next meeting will be August 4<sup>th</sup> at the annual Symposium in Seattle at 7:30 am. [See Attachment K.](#)

**Proposed New PAR (Filter PAR – Kermit Phipps)**

The secretary presented additional PAR information sent in by Kermit Phipps titled: "Recommended Practice and/or method of test for establishing EMI/RFI filter capability when supplying non-sinusoidal load currents in a mismatch impedance environment." The secretary indicated that he had invited Kermit Phipps to Seattle and had received a response that Kermit would attend our meeting to make a presentation on the PAR. Kermit had already received constructive input from several SDCOM members and had adjusted the PAR accordingly. [See Attachment L.](#)

**Coordination IEEE 1124**

Donald Sweeney presented a letter of coordination for IEEE 1124. [See Attachment M.](#)

**12.0 Generate a Contact and Organization list**

The secretary provided a copy of the Tokyo Symposia Participants List. [See Attachment N.](#)

**13.0 Officer Election Report**

Donald Sweeney indicated that the elections would be held at the next meeting in Seattle.

**14.0 Next Meeting**

The next meeting is a two-part meeting in conjunction with the IEEE EMCS Symposia in Seattle Washington. The first meeting is August 2<sup>nd</sup> from 8am to 10am. The second meeting is August 4<sup>th</sup> from 7:30 am to 8:30 am. Both meetings will be at the convention center.

**15.0 Adjournment**

The meeting was adjourned at 4:30 pm.

Respectfully Submitted,

David L. Traver -Secretary  
EMC Society  
Standards Development Committee

Attachments A to N