



FPD Metrology Korea TC Chapter Meeting Summary and Minutes

September 21, 2023, 15:00 – 17:00 (KST)

TC Chapter Announcements

Next TC Chapter Meeting

Feb 23, 2024, 13:30 – 16:00 (KST)

OVTCCM (hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Jongho Chong (LG Display), Kyungjin Kang (Macro Image Tech)

SEMI Staff: Natalie Shim (SEMI Korea)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Samsung Display	Kim	Su Young	<i>Macro Image Tech</i>	<i>Kang</i>	<i>Kyungjin</i>
Samsung Display	Lee	Seungmin	<i>LG Display (LGD)</i>	<i>Kim</i>	<i>Jaehong</i>
Samsung Display	Seo	Yong Woo	<i>LG Display (LGD)</i>	<i>Chong</i>	<i>Jongho</i>

Table 2 Leadership Changes

None

Table 3 TC Chapter Structure Changes

None

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6675A	New Standard, Test Method for Response Time Evaluation of Displays with Variable Refresh Rate	Failed and returned for rework

#1 **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

#2 **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 5 Activities Approved by the GCS between meetings of the TC Chapter

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
6975A	Ballot	Picture Quality Evaluation TF	Cycle 6 ballot was authorized via GCS on June 7, 2023



Table 6 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

#	Type	SC/TF/WG	Details
	TFOF	Automotive Display TF	Automotive Display task force formation is approved.

#1 SNARFs and TFOFs are available for review on the SEMI Web site at:

Table 7 Authorized Ballots

#	When	TF	Details
6975B	Cycle 9-23	Picture Quality Evaluation TF	New Standard, Test Method for Response Time Evaluation of Displays with Variable Refresh Rate

Table 8 SNARF(s) Granted a One-Year Extension

None

Table 9 SNARF(s) Abolished

None

Table 10 Standard(s) to receive Inactive Status

None

Table 11 New Action Items

None

Table 12 Previous Meeting Action Items

None

1 Welcome, Reminders, and Introductions

Jongho Jeong (LG Display) called the meeting to order at 15:00 (KST). The meeting reminders on antitrust issues, intellectual property issues, and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01, Meeting Agenda.pdf,
02, Meeting Reminders.pdf

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the previous meeting minutes with editorial changes.
By / 2nd: Suyoung Kim (Samsung Display) / Jae Hong Kim (LGD)
Discussion: None
Vote: 4-0, Motion carried

Attachment: 03, KR FPDM_minutes_Dec08_2023.pdf

3 Liaison Reports

3.1 FPD Metrology Japan TC Chapter

Natalie Shim (SEMI Korea) reported for the FPD Metrology Japan TC Chapter. Of note:

3.1.1 Meeting Information

- Last Meeting: June 10, 2022 at Japan office and OVTCCM (hybrid)
- Next Meeting: Date to be decided

3.1.2 Leadership Changes

- Satoshi Tomioka (Sony Group) has been approved as a co-chair on April 15, 2022.

Attachment: 04, 202206_JA_FPD_Met_LiaisonReport.pdf

3.2 FPD Metrology Taiwan TC Chapter

Natalie Shim reported for the FPD Metrology Taiwan TC Chapter. Of note:

3.2.1 Meeting Information

- Last Meeting: February 10, 2023, OVTCCM
- Next Meeting: August 4, 2023, OVTCCM

3.2.2 Ballot Adjudication

- Doc. 6201, New Standard, Test Method of Flicker Nuisance for Wide-Visual-Field Displays – **Failed**
- Doc. 6960, Revision to SEMI D57-0310, Definition of Measurement Index (VCT) for MURA in FPD Image Quality Inspection – **Passed.**
- Doc. 6961, Line Item Revision to SEMI D58, Terminology and Test Pattern for the Color Breakup of Field Sequential Color Display – **Passed.**

3.2.3 Authorized Activities

- None

3.2.4 Authorized Ballots (Cycle 3 or 4, 2023)

- Doc.6632B, New Standard, Test Method of Flicker Nuisance for Wide-Visual-Field Displays.

3.2.5 Task Force Highlight

3.2.5.1 Flexible Displays Task Force

3.2.5.1.1 6632 (New Standard, Test Method of Flicker Nuisance for Wide Visual-Field Displays.)

- TC authorized the ballot for cycle 3 or 4, 2022
- Passed Taiwan TC Review on Aug. 5, 2022
- Procedural Review failed, Back to TF Rework.
- Plan to submit for Taiwan TC approve the cycle 3 or 4 ballot.

3.2.5.2 Transparent Display Task Force

3.2.5.2.1 6201 (New Standard, Guide for Tone Reproduction Curves for Transparent Displays)

- New draft discussion in TF meeting on 2022/02/25
- Scheduled submission for the next coming TC meeting TBD,2022
- TC authorized the ballot for cycle 7 or 8, 2022. Failed.
- Back to TF rework.

3.2.5.2.2 6737 (New Standard, Test Method of Binocular Image Fusion for Augmented Reality Transparent Displays)

- Content discussion for draft in TF meeting on 2021/8/6, 10/1, 12/3
- Scheduled to have 1st Draft in 2022

3.2.5.3 Maintenance Task Force

3.2.5.3.1 Plan to review the Standards that published on 2019.

- SEMI D56, Test Method for Measurement for Ambient Contrast of Liquid Crystal Displays
- SEMI D59, Terminology for 3D Display
- SEMI D62, Test Method for Measurement of LED Light Bar for Liquid Crystal Displays
- SEMI D65, Test Method for Measurement for the Color Breakup of Field Sequential Color Display
- SEMI D68, Test Method for Optical Properties of Electronic Paper Displays

Attachment: 05, FPD-M Taiwan Liaison report_2023_May.pdf

3.3 SEMI Staff Report

Natalie Shim gave the SEMI Staff Report. Details are in the attached report.

3.3.1 SEMI Global Calendar of Events

3.3.2 SEMI Standards Publications

3.3.3 SEMI Corporate PPT Template Introduction

Attachment: 06, Staff Report July_2023.pdf

4 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

4.1 Document 6975A (New Standard, Test Method for Response Time Evaluation of Displays with Variable Refresh Rate)

- The ballot did not meet the minimum requirement of 60% return rate and automatically failed.

5 Subcommittee and Task Force Reports

5.1 *Perceptual Image Quality Task Force*

- No update

5.2 *Picture Quality Evaluation Task Force*

5.2.1 New SNARF proposal.

5.2.2 Seumin Lee (Samsung Display) and Suyoung Kim (Samsung Display) introduced the New SNARF (New Standard, Test Method for Flicker of Flat Panel Displays). Per TC members discussion, it has been decided to incorporate requested scope changes and approve the revised SNARF through the GCS approval process.

5.3 *Perceptual Viewing Angle task force*

- No Update

6 Old Business

None

7 New Business

7.1 Organizational Adjustment and Strategic Planning Discussion

7.1.1 The current organizational structure of the Korean FPD Metrology TC Chapter needs to be adjusted to better align with the activities of the TC. For example, there is considerable overlap in the charter and scope of the Perceptual Image Quality TF and the Perceptual Viewing Angle TF. It is advisable to shut down the Perceptual Viewing Angle TF, and this proposal will be officially presented at the next meeting after consultation with the TF leader. In addition, to pursue strategic TC activities, there are plans to continue discussions on the restructuring of the TC and operational approaches for each TF by the first half of 2024.

7.2 Automotive Display Task Force Formation

7.2.1 Jae hong Kim (LGD) proposed Automotive Display task force formation and the TC chapter approved it.

Motion: Approve the formation of the Automotive Display Task Force

By / 2nd: Jae Hong Kim (LGD) / Seungmin Lee (Samsung Display)

Discussion: None

Vote: 4-0, motion carried

Attachment: 07, TFOF_Automotive Display.pdf

8 Next Meeting and Adjournment

The next meeting is scheduled for Thursday, Feb 23, 2024 at SEMI Korea office in Seoul. See <http://www.semi.org/standards-events> for the current list of events.



Adjournment: 17:00.

Respectfully submitted by:

Natalie Shim

Manager, Standards

SEMI Korea

Phone: 82.2.531.7808

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Minutes tentatively approved by:

Jongho Chong (LG Display), Co-chair	Yes
Kyungjin Kang (Macro Image Tech), Co-chair	Yes

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01, Meeting Agenda_Sept 21, 2023.pdf	05, FPD-M Taiwan Liaison report_2023_May.pdf
02, Meeting reminder.pdf	06, Staff Report July_2023.pdf
03, KR FPDM_minutes_Dec08_2023.pdf	07, TFOF_Automotive Display.pdf
04, 202206_JA_FPD_Met_LiaisonReport.pdf	

#1 Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact Natalie Shim at the contact information above.