



FPD Metrology Taiwan TC Chapter

Meeting Summary and Minutes

Taiwan Summer Standards Meeting 2021

Friday, Aug. 6, 2021, 14:30 – 16:30

OVTCCM

TC Chapter Announcements

Next TC Chapter Meeting

Friday, Feb. 25, 2021, 14:00 – 16:00

ITRI Office, Hsinchu, Taiwan(Hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Jen-Chieh Wang (ITRI)/Chia-Ming Liu(ITRI)

SEMI Staff: Cher Wu/ Ada Tai

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
<i>AUO</i>	<i>Chen</i>	<i>Kevin</i>	<i>ITRI</i>	<i>Hung</i>	<i>Shao-Tang</i>
<i>I-Boson</i>	<i>Wang</i>	<i>Kerson</i>	<i>ITRI</i>	<i>Sun</i>	<i>Eric</i>
<i>ITRI</i>	<i>Wen</i>	<i>Chao-Hua</i>	<i>NTUST</i>	<i>Sun</i>	<i>Pei-Li</i>
<i>ITRI</i>	<i>Pong</i>	<i>Bao-Jen</i>	<i>Innolux</i>	<i>Chen</i>	<i>Fu-Chen</i>

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
Flexible Display TF		Bao-Jen Pong/ITRI, Co-leader

Table 3 Committee Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
None	

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
#6303	Reapproval of SEMI D57-0310 Definition of Measurement Index (VCT) for MURA in FPD Image Quality Inspection	Failed
#6632	New Standard: Test Method of Flicker Nuisance for Wide Visual Field Displays	Failed

#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

#	Type	SC/TF/WG	Details
None			

Table 6 Authorized Activities

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

#	Type	SC/TF/WG	Details
TBD	SNARF	Maintenance TF	Line item Revision to SEMI D57-0310 Definition of Measurement Index(VCT) for MURA in FPD Image Quality Inspection

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

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARE>

Table 7 Authorized Ballots

#	When	TF	Details
TBD	Cycle 7/8, 2021	Maintenance TF	Line item Revision to SEMI D57-0310 Definition of Measurement Index(VCT) for MURA in FPD Image Quality Inspection

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

#	TF	Title	Expiration Date
None			

Table 9 SNARF(s) Abolished

#	TF	Title
None		

Table 10 Standard(s) to receive Inactive Status

Standard Designation	Title
None	

Table 11 New Action Items

Item #	Assigned to	Details
None		

Table 12 Previous Meeting Action Items

Item #	Assigned to	Details
None		

1 Welcome, Reminders, and Introductions

Committee Co-Chairs Jen-Chieh Wang (ITRI) called the meeting to order at 14:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: Required Element Nov 2020

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve previous meeting minute

By / 2nd: Bao-Jen Pong (ITRI) / Eric Sun (ITRI)

Discussion: None

Vote: 7-0 in favor. Motion passed

Attachment: FPD Meeting Minutes 20210205 V3

3 Liaison Reports

3.1 FPD _ Metrology Japan TC Chapter

-- Cher Wu reported for the FPD Metrology Japan TC Chapter. Of note:

➤ Meeting Information

Last meeting: Friday, July 9, 2021 at the SEMI Standards Japan Summer Meetings Web

Next meeting: TBD

➤ Task Committee Highlights

- Japan TC Chapter completed simulation training for the OVTCCM on February 4, 2021.
- Special online ballot to vote on whether to adopt or not adopt has been sent out and passed on May 18, 2021.
- All official meetings for FPD Metrology must now be OVTCCM.
- Ballot Discussion Meeting held on May 18, 2021
 - * Web Meeting
 - * Ballot# 6701A : TEST METHOD FOR WARM-UP PROPERTIES OF DISPLAY PICTURE QUALITY

Attachment: 202108_JA_FPD_Metrology_LiaisonR_v1.0

3.2 FPD _ Metrology and Components Japan TC Chapter

➤ Meeting Information

Last meeting: Friday, July 9, 2021 at the SEMI Standards Japan Summer Meetings / Web

Next meeting: Friday, November 5, 2021 at the SEMI Japan office, Tokyo / Web

➤ Ballot Results

<i>Doc #</i>	<i>Document Title</i>	<i>TC Chapter Action</i>
6694	Line Item Revision to SEMI D74-0116: Guide for Measuring Dimensions for Plastic Films/Substrates	

Line Item 1	Change 'shall' to 'should' as shown in section 6	Passed with Editorial Changed
Line Item 2	Change sentences that use 'recommend(ed)' to sentences that use 'should' in section 6	Passed as balloted
Line Item 3	Addition of measuring machine name in 6.1.1	Passed as balloted

Note 1: **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.
 Note 2: **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

➤ **Authorized Ballots**

Doc #	When	TF	Document Title/Details
6745	Cycle 6-2021	Maintenance Task Force	SNARF for: Line Item Revision to SEMI D50-0316: "TEST METHOD FOR SURFACE HARDNESS OF FLAT PANEL DISPLAY (FPD) COMPONENTS"

➤ **Task Force Highlights**

■ **Flexible Display Task Force**

- Held on July 9 via online meeting
- Reviewed ballot 6694:Line Item Revision to SEMI D74-0116 "Guide for Measuring Dimensions of Plastic Films/Substrates"

■ **FPD Mask Task Force**

- Meeting at 10:00 on July 06, 2021
- Discussion
 New standard has been under consideration.
 It is regarding FPD Phase Shift Mask for fine patterning.
 The TF members have been discussing Specification and/or Terminology of it.
 If a rough draft can be prepared as the result of the discussion,
 SNARF will be proposed at the next FPD M&C meeting.

■ **Maintenance TF**

- Held on July 9 via online meeting
- **Active Items**
 - Line Item Revision to SEMI D50-0316: "TEST METHOD FOR SURFACE HARDNESS OF FLAT PANEL DISPLAY (FPD) COMPONENTS"
 - To be revised due to 5 years review.
 - SNARF was approved at FPD M&C Japan TC Chapter meeting on 2021-03-19.
 *Document Number: #6745.
 - A revised manuscript was prepared.
 - The ballot submission was proposed at FPD M&C Japan TC Chapter meeting on 2021-07-09.

➤ **5-year review**

<i>Designation #</i>	<i>Standard Title</i>	<i>Action By</i>	<i>Assigned to</i>
SEMI D39-0704 (Reapproved 0117)	Specification for Markers on FPD Polarizing Films	Jan-22	Maintenance Task Force

SEMI D 34-0710 (Reapproved 0117)	Test Method for FPD Polarizing Films	Jan-22	Maintenance Task Force
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Attachment: 202108 JA FPD M+C LiaisonR_v1.0

3.3 FPD__ Metrology Korea TC Chapter

- Cher Wu reported for the FPD Metrology Korea TC Chapter. Of note:

Action Item:

➤ Meeting Information,

Last meeting: March 26, 2020 SEMI Korea, Seoul, Korea

Next meeting: (Original date: August 6, 2021) It is cancelled due to Covid-19.

➤ Leadership Changes

TF/SC/CFG/TC Name	Previous Leader	New Leader
Picture Quality Evaluation TF	N/A	Myogyong Lee / LG Electronics

➤ Ballot Results – Cycle 1, 2021

Doc #	Document Title	TC Chapter Action
6614C	New Standard, Test Method of Dimming Property for Flat Panel Displays	Passed A&R for procedure review. To be published in July.
6644B	New Standard, Test Method for Viewing Angle of Flat Panel Displays	Passed A&R for procedure review. To be published in July.
6659A	Revision to SEMI D75-0118, Test Method for Color Reproduction and Perceptual	Failed procedure review, returned for rework.
6701	New Standard, Test Method for Warm-up Properties of Display Picture Quality	Failed, returned for re-work

➤ Ballot Results – Cycle 4, 2021

Doc #	Document Title	TC Chapter Action
6701A	New Standard, Test Method for Warm-up Properties of Display Picture Quality	Failed, returned for re-work

➤ 5-Year Review

- SEMI D71-0614, Test Method of PDP Tone and Color Reproduction – Revision
- SEMI D64-0811, Test Method for Measuring the Spatial Contrast Ratio of Flat Panel Display - TBD
- SEMI D61-1110, Test Method of Perceptual Angle for OLED Displays - TBD

Action Item 1: The authors of D64 and D61 will review them and decide next step by August 6, 2021.

Attachment: Liaison report FPDM KR July2021

3.4 SEMI Staff Report

--Cher Wu (SEMI) gave the SEMI Staff Report. Of note:

Action Item: SEMI Global 2021 Calendar of Events

2021 Critical Dates for SEMI Standards Ballots

Attachment: FPD-M TC Staff Report 20210806

4 Ballot Review

None

5 Subcommittee and Task Force Reports

5.1 Flexible Displays Task Force

5.1.1 Doc 6632, New Standard: Test Method of Flicker Nuisance for Wide-Visual-Field Displays.
TF failed this Doc#6632 returned to rework.

Motion: Failed Doc#6632 and returned to the TF for rework.

By / 2nd: By: Bao-Jen Pong (ITRI) / Pei-Li Sun (NTUST)

Discussion: None.

Vote: 8-Y 0-N. Motion passed.

5.2 Transparent Display Task Force

5.2.1 Doc#6201: New Standard: Guide for Tone Reproduction Curves for Transparent Displays

- Discuss 1st draft at June 4, 2021
- Scheduled submission for the next coming TC meeting on 2022#6201: New Standard: Guide for Tone Reproduction Curves for Transparent Displays

5.2.2 Doc#6737: New Standard: Test Method of Binocular Image Fusion for Augmented Reality Transparent Displays

- Get the document no. #6737 March 9, 2021
- Scheduled submission for the next coming TC meeting on 2022.

5.3 Maintenance TF report

5.3.1 SEMI D73-1014 – Test Methods for Positional Accuracy of Capacitive Touchscreen Panel >> SEMI D73-1020.

5.3.2 SEMI D57-0310 – Definition of Measurement Index (VCT) for Mura in FPD Image Quality Inspection

- SEMI Doc. # 6303 : Reapproval of SEMI D57-0310, Definition of Measurement Index (VCT) for MURA in FPD Image Quality Inspection , cycle 3 rejection: D31 title change to 「Guide for Definition of Measurement Index (DSemu) for Luminance Mura in FPD Image Quality Inspection」
- Scheduled to get new doc. # as line item change instead of A&R procedure



5.3.3 Fail Doc. #6303, Line Item Revision to SEMI D57-0310 – Definition of Measurement Index (VCT) for Mura in FPD Image Quality Inspection

Motion: This Document failed (#6303) and to be discontinued..

By / 2nd: Bao-Jen Pong (ITRI) / Chao-Hua Wen(OMVO Technology Inc.)

Discussion: None

Vote: 8-Y 0-N, Motion passed.

Motion: Approve the SNARF for Line Item Revision to SEMI D57-0310, Definition of Measurement Index (VCT) for MURA in FPD Image Quality Inspection

By / 2nd: Bao-Jen Pong (ITRI) / Fu-Cheng Chen (*Innolux*)

Discussion: None

Vote: 8-Y 0-N, Motion passed

Motion: Authorize to get the new number of Document for Line Item Revision to SEMI D57-0310, Definition of Measurement Index (VCT) for MURA in FPD Image Quality Inspection) for Letter Ballot (Cycle7/8,2021)

By / 2nd: Bao-Jen Pong (ITRI) / Chao-Hua Wen / OMVO Technology Inc.

Discussion: None

Vote: 8-Y 0-N, Motion passed

Attachment: 03_SEMI-TW FPD-TFs report_20210806_v2

6 Old Business

None

7 New Business

7.1 To nominate New Flexible Display TF Co-leader (Bao-Jen Pong /ITRI).

Motion: To nominate New Flexible Display TF Co-leader (Bao-Jen Pong /ITRI).

By / 2nd: Fu-Cheng Chen (*Innolux*) / Pei-Li Sun (NTUST).

Discussion: None

Vote: 8-Y 0-N, Motion passed

8 Next Meeting and Adjournment

The next meeting is scheduled to be held on Feb. 25, 2022. See <http://www.semi.org/standards-events> for the current list of events

Adjournment: 15:30

Respectfully submitted by:

Cher Wu

Senior Executive Consultant

SEMI Taiwan



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Minutes tentatively approved by:

Co-chair	Date Approved
Jen-Chieh Wang, ITRI,	2021/08/20

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
<u>1_ Required Element Nov 2020 Rev1</u>	<u>3.3_ Liaison report FPDM KR July2021</u>
<u>2_ FPD Meeting Minutes 20210205 V3</u>	<u>3.4_ FPD-M TC Staff Report 20210806</u>
<u>3.1_ 202108 JA FPD Metrology LiaisonR v1.0</u>	<u>3.5_ 03_SEMI-TW FPD-TFs report_20210806_v2</u>
<u>3.2_ 202108 JA FPD M+C LiaisonR v1.0</u>	

#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 [SEMI Staff Name] at the contact information above.