

Taiwan FPD-Metrology Committee Meeting Summary and Minutes

27 September, 2013, 15:00-17:10
ITRI R223, HsinChu, Taiwan

Next Committee Meeting

17 December, 2013

FPD-Metrology Committee, ITRI, HsinChu, Taiwan

Committee Announcements (optional)

Table 1 Meeting Attendees (7 Attendees)

Chair: TY Lin (ITRI)

SEMI Staff: Cher Wu

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
ITRI	Lin	Tzeng-Yow	ITRI	Wang	Wen-Tung
ITRI	Wen	Bor-Jiunn	AUO	Chen	Chien-Wen
ITRI	Pong	Bao-Jen	ITRI	Chou	Sen-Yih
ITRI	Su	Hallie	ITRI	Lai	Yueh-Yi

Table 2 Leadership Changes

None

Table 3 Ballot Results (or move to Section 4, Ballot Review)

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

Failed ballots and line items were returned to the originating task forces for re-work and re-balloting.

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
4764D	NEW STANDARD: TEST METHOD OF FPD-BASED STEREOSCOPIC DISPLAY WITH ACTIVE GLASSES, balloting Cycle 5, 2013	Passed
4765B	NEW STANDARD: TEST METHOD OF FPD-BASED STEREOSCOPIC DISPLAY WITH PASSIVE GLASSES, balloting Cycle 5, 2013	Passed

Table 4 Authorized Ballots (or move to Section 7, New Business)

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
None		

Table 5 Authorized Activities (or move to Section 7, New Business)

None

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

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

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

Table 6 New Action Items (or move to Section 7, Action Item Review)

None

Table 7 Previous Meeting Actions Items (or move to Section 7, Action item Review)

1. SEMI Taiwan and Japan staff (Naoko) has communicated with reject voters of Touch Screen TF. After revised, sent #5293a for ballot again.

1 Welcome, Reminders, and Introductions

Committee Chair Dr. TY Lin, (ITRI) called the meeting to order at 15:00. After welcoming all attendees, the SEMI meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

2 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting.

Motion: Committee Chair Dr. TY Lin (ITIR) asked for all attendees to review and approve last committee meeting minutes.

By / 2nd: TY Lin(ITRI)/ Chen Chien-Wen(AUO)

Discussion: 1. SEMI Taiwan and Japan staff (Naoko) has communicated with reject voters. After revised, sent #5293a for ballot again. Wen Bor-Jiunn (ITRI) will join the Japan FPD Material's & Components Committee on 10/24. Any further question can be discussed by then too.

Vote: 6-0 in favor, Motion Passed.

Attachment : SEMI Taiwan FPD Committee Meeting Minutes_20130628

3 Liaison Reports

- Japan FPD Material's & Components Committee Liaison Report in July, 2013
 - ◆ Task Force Leadership
 - ✓ Polarizing Film Task Force
 - ✓ Yuzo Akada (Nitto Denko) stepped down as a co-leader of the Polarizing Film TF. The substitute will be introduced at the next committee meeting.
 - ✓ Yoshi Shibahara (Fujifilm) and Toshio Otsuka (Sanritz) currently remains as co-leaders.
 - ◆ Last Meeting
 - ✓ July 5, 2013 during Japan Standards Summer 2013 Meetings at SEMI Japan, Tokyo, Japan
 - ◆ * It was a joint meeting of the Japan FPD Metrology Committee and the Japan Materials & Components Committee
 - ◆ Next Meeting
 - ✓ TBD (Candidate is sometime in September or October)

- ◆ NEW SNARFs
 - None
- ◆ Upcoming Ballot for Review,
- ◆ Passed committee review (Superclean)
 - ✓ Doc.#5552, Reapproval of SEMI D13-0708, Terminology for FPD Color Filter Assemblies
 - ✓ Doc.#5553, Reapproval of SEMI D29-1101, Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters
 - ✓ Doc.#5554, Reapproval of SEMI D30-0707, Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters
- ◆ Polarizing Film Task Force
 - ✓ Yuzo Akada (Nitto Denko) stepped down as a co-leader of the Polarizing Film TF. The substitute will be introduced the next committee meeting. Yoshi Shibahara (Fujifilm) and Toshio Otsuka (Sanritz) currently remains as co-leaders.
 - ✓ Working for Doc. #5555, Revision to SEMI D50-0707, Test Method for Surface Hardness of FPD Polarizing Film. Will continue the discussion within TF and present the first draft at the next committee meeting in fall.
 - ✓ Studying new topics relating to optical films which may be able to standardize, such as conduction films and resistive films for touch panel screens, and protection films and cover films. Depending on the topics, a new TF may be needed to be organized.
- ◆ Backlight Task Force
 - ✓ The Task Force currently has no activity.
- ◆ Flexible Display Task Force
 - ✓ Working for 2 New Standards as below;
 - ✓ Doc. #5550, New Standard: Guide for Dimensional Measurement of Plastic Films
 - ✓ Doc. #5551, New Standard: Measurement Method of Water Vapor Transmission Rate for Plastic Films and Sheets with High Barrier Properties for Electronic Devices
- ◆ FPD Color Filter Task Force
 - ✓ The following documents passed the committee review and will be forwarded to the ISC A&R SC for procedural review.
 - ✓ Doc. #5552, Reapproval of SEMI D13-0708, Terminology for FPD Color Filter Assemblies
 - ✓ Doc. #5553, Reapproval of SEMI D29-1101, Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters
 - ✓ Doc. #5554, Reapproval of SEMI D30-0707, Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters
- ◆ For question, contact Naoko Tejima, SEMI Japan Staff at email: ntejima@semi.org

Attachment: Japan FPD M+C Committee Liaison Report2013July

4. SEMI Staff Report

Provide the schedule about critical dates about Ballot.

5. Old Business

◆ **3D Display Metrology TF Report by Bao-Jen Pong(ITRI)**, achieved 60% voting, but was not adjudicated

✓ **4764D Revision details**

- Ballot Result: 3 rejects + 1 abstain + 1 comment
 - 1) 3 rejects with 7 negatives. 6 negatives are related and not persuasive. 1 negative is not related.
 - 2) All comments are no further action was taken by the committee.
- Review the 4764D Ballot with comment and votes on negative comment. (Could refer the attached document.)

✓ **4765B Revision details**

- Ballot Result: 3 rejects + 1 abstain + 2 comments
- Modify the Fig.1 in previous version (4765), the black bands in left and right channels are too big, it is easy to confuse that people can easily see the black bands, so we use the black lines to substitute for black bands.
 - 1) 3 rejects with 8 negatives. 6 negatives are related and not persuasive. 2 negative is not related.
 - 2) All comments are no further action was taken by the committee..
- Review the 4765A Ballot with comment and votes on negative comment. (Could refer the attached document.)

Motion: Get the A&R approval for 4764D/4765B after Procedure Review Voting Sheet

By / 2nd: Bao-Jen Pong(ITRI)/Chien-Wen Chen(AUO)

Discussion: None

Vote: 6-0, Pass

◆ **Flexible TF Report by Wen-Tong Wang (ITRI)** After 7 TF meeting in 2013, the related mechanical and shocking test standards are listed below:

✓ **Shocking**

- IEC 60068-2-27-2008 (Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock)
- JESD22-B110A-2004 (Subassembly Mechanical Shock)
- ASTM D4272 (Standard Test Method for Total Energy Impact of Plastic Films By Dart Drop)
- ISO 2248-1985 (Complete, filled transport packages-Method for determination of resistance to vertical impact by dropping)
- GB/T 4857.5-1992 (Packaging-Transport packages-Vertical impact test method by dropping)

Ps. JESD22-B110A is the least used one. It is for reference only.

Mechanical test	IEC	JEDEC	ASTM	ISO or Others
	耐衝擊	衝擊, 耐摔	Dart drop	耐摔
Shocking	IEC 60068-2-27	JESD22-B110A	ASTM D4272	ISO 2248 GB/T 4857.5

Discussion: mechanical and shocking test standards have been surveyed. TF will discuss the test methods in detail in the next meeting. Curve TV test method will be discussed too.

- ◆ **Touch Screen Panel TF Report by Bor-Jiunn Wen (ITRI)** Discussion on ballot #5293A results and revised document.

Motion: Voting for join ballot @ 2013 Cycle 7

By / 2nd: Bor-Jiunn Wen (ITRI)/Bao-Jen Pong (ITRI)

Discussion: SEMI Taiwan and Japan staff (Naoko) has communicated with reject voters. After revised, sent #5293a for ballot again.

Voted: 6 -0, Motion passed

- ◆ **e-Paper TF Report by Bor-Jiunn Wen (ITRI)** Will focus on reflectance measurements for Electronic Paper Displays: Terminology & Measuring methods, including Incident illumination and measurement geometry. Draft #5533 to SEMI H.Q. & Japan FPD T.C.

Motion: submit the draft for Cycle 7 (2013.10) SEMI standard ballot

By / 2nd: Bor-Jiunn Wen (ITRI)/Bao-Jen Pong (ITRI)

Discussion: SEMI staff to double check the form and format

Voted: 6 -0, Motion passed

6. New Business

1. OLED related issues will start to discuss by ITRI. The feasibility to setup a TF will discuss on the next meeting.
2. Transparent Display related issues will start to discuss by ITRI. The feasibility to setup a TF will discuss on the next meeting.

7. Action Item Review

8. Next Meeting and Adjournment

17 December, 2013



Respectfully submitted by:
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Minutes approved by:

T. Y. Lin, Chair	<Date approved> Oct 15 ,2013
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Table 8 Index of Available Attachments #1

#	Title	#	Title
0	<u>SEMI Taiwan FPD Committee Meeting Minutes 20130628</u>	4	<u>#4764D Procedure Voting Review Sheet Documentation</u>
1	<u>Japan FPD M+C Committee Liaison Report 2013 July</u>	5	<u>#4765B Procedure Voting Review Sheet Documentation</u>
2	<u>Touch Screen Panel TF</u>	6	<u>#5293A Ballot Review</u>
3	<u>e-Paper TF</u>	7	<u>Doc # 5533A</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.