

Japan FPD Materials & Components Committee Meeting Summary and Minutes

SEMI Japan Standards Summer 2013 Meetings
Friday, July 5, 2013, 15:00-17:00
SEMI Japan, Tokyo, Japan

Next Committee Meeting
FPD Materials & Components Committee:
SEMI Japan Standards Fall 2013 Meetings
TBD (Candidate is sometime in September or October)

Table 1 Meeting Attendees

Co-Chairs of FPD M&C Committee: Tadahiro Furukawa (Yamagata University), Yoshi Shibahara (Fujifilm)

| <i>Company</i> | <i>Last</i> | <i>First</i> | <i>Company</i> | <i>Last</i> | <i>First</i> |
|---------------------|-------------|--------------|----------------|-------------|--------------|
| Yamagata University | Furukawa | Tadahiro | Japan Display | Watanabe | Ryoichi |
| Konica Minolta | Ochi | Keizo | SEMI Japan | Tejima | Naoko |
| Fujifilm | Shibahara | Yoshi | | | |

** alphabetical order by last name*

Table 2 Leadership Changes

| <i>Group</i> | <i>Previous Leader</i> | <i>New Leader</i> |
|----------------------------|--------------------------|-------------------|
| Polarizing Film Task Force | Yuzo Akada (Nitto Denko) | TBD |

Table 3 Ballot Results

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> |
|-------------------|---|---------------------------|
| 5552 | Reapproval of SEMI D13-0708, Terminology for FPD Color Filter Assemblies | Passed as balloted |
| 5553 | Reapproval of SEMI D29-1101, Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters | Passed as balloted |
| 5554 | Reapproval of SEMI D30-0707, Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters | Passed as balloted |

Table 4 Authorized Ballots

None

Table 5 Authorized Activities

None

Table 6 New Action Items

| <i>Item #</i> | <i>Assigned to</i> | <i>Details</i> |
|------------------|--------------------|--|
| FPD M&C130705-01 | SEMI Staff | To report that it has been resolved that the handling of SEMI D41 will be relegated to the JA FPD Metrology Committee at the JA FPD M&C Committee. |
| FPD M&C130705-02 | SEMI Staff | To get GCS approval to adopt Measurement Method as subtype. |
| FPD M&C130705-03 | SEMI Staff | To check the procedure to add "Measurement Method" as subtype in the SEMI Standards Regulations. |
| FPD M&C130705-04 | SEMI Staff | To forward adjudication result of Doc.5552 to the ISC A&R Subcommittee for procedural review. |
| FPD M&C130705-05 | SEMI Staff | To forward adjudication result of Doc.5553 to the ISC A&R Subcommittee for procedural review. |
| FPD M&C130705-06 | SEMI Staff | To forward adjudication result of Doc.5554 to the ISC A&R Subcommittee for procedural review. |

1 Welcome, Reminders, and Introductions

Tadahiro Furukawa, committee co-chair, called the meeting to order at 15:00. Self-introductions were made followed by the agenda review.

2 Required Meeting Elements

The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed by SEMI staff, Naoko Tejima.

3 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting held on April 12, 2013.

Motion: To approve the minutes of the previous meeting as written.

By / 2nd: Yoshi Shibahara (Fujifilm) / Ryoichi Watanabe (Japan Display)

Discussion: None

Vote: 3 in favor and 0 opposed. **Motion passed.**

Attachment: 01_JA_FPD_M&C_Previous_Mtg_Minutes_130705

4 SEMI Staff Report

Naoko Tejima gave the SEMI staff report. This report included SEMI Global 2013 Calendar of Events, Global Standards Meeting Schedule, NA Standards Meetings in conjunction with SEMICON West, 2013 Critical Dates for SEMI Standards Ballots, SEMI Standards Publication, SEMICON Japan 2013 Information and Contact Information.

Attachment: 02_SEMI_Staff_Report_130705

5 Liaison Reports

5.1 Korea FPD Committee Report

Naoko Tejima reported for the Korea FPD Metrology Committee. This report included Leadership, Organization Chart, Meeting Information, Ballot Results, Upcoming Ballots, Subcommittee/TF/WG Reports, Contact Information. Of note;

- The Backlight Unit Task force was disbanded and all open SNARFs in below deactivated because the activities are out of date.
 - Doc.4313: Specification for Reliability Backlight Unit for LCD
 - Doc.4859: Revision to SEMI D33-0703, Measuring Method of Optical Characteristics for Backlight Unit
 - Doc.5379: Revision to SEMI D36-0306, Terminology for LED Backlight Unit

Attachment: 03_KR_FPD_Liaison_Report_130705

5.2 Taiwan FPD Committee Report

Naoko Tejima reported for the Taiwan FPD Committee. This report included Leadership, Organization Chart, Meeting Information, Current Document Status and Contact Information.

Attachment: 04_TW_FPD_Liaison_Report_130705

6 Ballot Review

6.1 *Doc.#5552, Reapproval of SEMI D13-0708, Terminology for FPD Color Filter Assemblies*, passed committee review as balloted and will be forwarded to the ISC A&R SC for procedural review.

Action Item: SEMI staff to forward adjudication result of Doc.5552 to the ISC A&R Subcommittee for procedural review.

Attachment: 05_Ballot_Review_for_5552_130705

6.2 *Doc.#5553, Reapproval of SEMI D29-1101, Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters*, passed committee review as balloted and will be forwarded to the ISC A&R SC for procedural review.

Action Item: SEMI staff to forward adjudication result of Doc.5553 to the ISC A&R Subcommittee for procedural review.

Attachment: 06_Ballot_Review_for_5553_130705

6.3 *Doc.#5554, Reapproval of SEMI D30-0707, Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters*, passed committee review as balloted and will be forwarded to the ISC A&R SC for procedural review.

Action Item: SEMI staff to forward adjudication result of Doc.5554 to the ISC A&R Subcommittee for procedural review.

Attachment: 07_Ballot_Review_for_5554_130705

7 Task Force Reports

7.1 Polarizing Film Task Force

Yoshi Shibahara reported on progress for the Polarizing Film Task Force. The Task Force met earlier in the day. Of note:

- 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.
- TF is 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.
- TF is 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.

Attachment: 08_Polarizer_TF_Report_130705

7.2 Backlight Task Force

No report was provided by the Task Force.

7.3 Flexible Display Task Force

Tadahiro Furukawa reported for the Flexible Display Task Force that the TF meeting had been scheduled earlier in the day was postponed, and there were no particular things should be reported.

7.4 Color Filter Task Force

Tadahiro Furukawa reported for the Color Filter Task Force that there were no particular things should be reported.

8 Old Business

8.1 Previous Meeting Action Items

Naoko Tejima reviewed the previous meeting action items.

Table 7 Previous Meeting Actions Items

| <i>Item #</i> | <i>Assigned to</i> | <i>Details</i> |
|-------------------|--------------------|---|
| FPD M&C121102-02 | SEMI Staff | To ask, through SEMI Korea Staff, members of FPD Committee in Korea what they want to do with respect to D41; - should be maintained or - can be "Inactive" document ... Close |
| FPD M&C 130208-02 | SEMI Staff | To submit reapproval ballot of SEMI D13 for Cycle 3, 2013 ... Close |
| FPD M&C 130208-03 | SEMI Staff | To submit reapproval ballot of SEMI D29 for Cycle 3, 2013 ... Close |
| FPD M&C 130208-04 | SEMI Staff | To submit reapproval ballot of SEMI D30 for Cycle 3, 2013 ... Close |
| FPD M&C130412-01 | SEMI Staff | To correct the Committee Co-chairs' names of Table 1 of the previous meeting minutes. ... Close |
| FPD M&C130412-02 | SEMI Staff | To send the document template to Flexible Display TF leaders. ... Close |
| FPD M&C130412-03 | SEMI Staff | To check the background and reasons why "Measure Method" should be changed to "Test Method" (Subtypes of Standards of Doc.#5555). ... Close |
| FPD M&C130412-04 | SEMI Staff | To ask the TF leaders to translate D46 into Japanese, providing the difference file. ... Close |

8.1.1 FPD M&C121102-02: Handling of SEMI D-41, Measurement Method of SEMI MURA in FPD Image Quality Inspection

Naoko Tejima reported the reply of Korea FPD Metrology Committee. They have no special opinions to SEMI D41. They understand that since SEMI D41 was developed by Japan FPD Committee, the handling of the document is also be left to the Japan FPD Committee's choice.

This document was originally developed by JA FPD Factory Automation Committee. This is not the matter which should be handled by JA FPD Materials and Components Committee. The contents of this document relate rather to FPD Metrology Committee. Therefore JA FPD Materials and Components Committee resolved to relegate the handling of this document to JA FPD Metrology Committee.

Motion: To relegate the handling of SEMI D41 to JA FPD Metrology Committee.

By / 2nd: Yoshi Shibahara (Fujifilm) / Keizo Ochi (Konica Minolta)

Discussion: The regulation about the document status was explained by SEMI.

Vote: 3 in favor and 0 opposed. **Motion passed.**

Action Item: SEMI staff to report that it has been resolved that the handling of SEMI D41 will be relegated to the JA FPD Metrology Committee at the JA FPD M&C Committee.

8.1.2 FPD M&C130412-03: "Measurement Method" and "Test Method"

Naoko Tejima explained the regulations about Subtypes of Document. The standards documents are divided 6 types as the subtypes in the SEMI Standards Regulations, however, they are not requirement.

"(from SEMI Standards Regulations) 4.2.24 Subtype, n. - A term defining specific varieties of Standards; for example, Classification, Guide, Miscellaneous, Practice, Specification, Terminology, or Test Method."

However, it is requested to choose one of the above 6 subtypes in order to avoid the confusion of the both users and writers. Therefore

In this case, "Doc.5551, New Standard: Measurement Method of Water Vapor Transmission Rate for Plastic Films and Sheets with High Barrier Properties for Electronic Devices", if it can be change to "Test Method", it is preferable.

When "Measurement Method" is adopted as subtype, GCS approval is required according to SEMI Regulations.

"(from SEMI Standards Regulations) 4.2.24.3 Miscellaneous, n. - Other Subtypes of Standards, such as formats, matrices, charts, tables, and reference photographs, which are relatively few and are self-explanatory. Use of such Subtypes of Standards should be decided upon by the Originating TC Chapter with approval from its GCS."

The following opinions were presented;

- Should separate "Measure Method" and "Test Method" clearly.
- Should add the "Measurement Method" as subtype in Regulations officially.
- In this document, the "Measurement Method" as subtype is adopted.

Action Item: SEMI staff to get GCS approval to adopt Measurement Method as subtype.

Action Item: SEMI staff to check the procedure to add "Measurement Method" as subtype in the SEMI Standards Regulations.

9 New Business

None

10 Future Plan of FPD Committees

Naoko Tejima reported on the progress of the restructure of FPD Committee Organizations.

Attachment: 09_FPD_Re-organization_Proposal_130705



11 Action Item Review

11.1 New Action Items

Naoko Tejima reviewed the new action items. These can be found in the New Action Items table at the beginning of these minutes.

12 Next Meeting and Adjournment

The next meeting of the Japan FPD Materials & Components Committee is TBD (Candidate is sometime in September or October).



Respectfully submitted by:
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Minutes approved by:

| | |
|---|---------------|
| Tadahiro Furukawa (Yamagata University), Co-chair of JA FPD M&C Committee | July **, 2013 |
| Yoshi Shibahara (Fujifilm), Co-chair of JA FPD M&C Committee | July 24, 2013 |

Table 8 Index of Available Attachments #1

| # | <i>Title</i> |
|---|--|
| 1 | JA_FPD_M&C_Previous_Mtg_Minutes_130705 |
| 2 | SEMI_Staff_Report_130705 |
| 3 | KR_FPD_Liaison_Report_130705 |
| 4 | TW_FPD_Liaison_Report_130705 |
| 5 | Ballot_Review_for_5552_130705 |
| 6 | Ballot_Review_for_5553_130705 |
| 7 | Ballot_Review_for_5554_130705 |
| 8 | Polarizer_TF_Report_130705 |
| 9 | FPD_Re-organization_Proposal_130705 |

#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 Naoko Tejima at the contact information above.