FPD Materials & Components Japan TC Chapter
Meeting Summary and Minutes

SEMI Japan Standards Winter 2015 Meetings
February 6, 2015, 15:00-17:00
SEMI Japan, Tokyo, Japan

Next Committee Meeting
SEMI Japan Standards Spring 2015 Meetings
Friday, April 10, 2015, 14:00-17:00
SEMI Japan, Tokyo, Japan

Table 1 Meeting Attendees
Co-Chairs of FPD M&C Committee: Tadahiro Furukawa (Yamagata University), Yoshi Shibahara (Fujifilm)
SEMI Staff: Naoko Tejima (SEMI Japan)

<table>
<thead>
<tr>
<th>Company</th>
<th>Last</th>
<th>First</th>
<th>Company</th>
<th>Last</th>
<th>First</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nishimatsuya Chain</td>
<td>Aruga</td>
<td>Hisashi</td>
<td>Corning International</td>
<td>Okamura</td>
<td>Haruo</td>
</tr>
<tr>
<td>Yamagata University</td>
<td>Furukawa</td>
<td>Tadahiro</td>
<td>Fujifilm</td>
<td>Shibahara</td>
<td>Yoshi</td>
</tr>
<tr>
<td>Teijin</td>
<td>Itoh</td>
<td>Haruhiko</td>
<td>SK Electronics</td>
<td>Shiojiri</td>
<td>Kazuya</td>
</tr>
<tr>
<td>Nitto Denko</td>
<td>Kobayashi</td>
<td>Shigeo</td>
<td>Japan Display</td>
<td>Watanabe</td>
<td>Ryoichi</td>
</tr>
<tr>
<td>Meiji University</td>
<td>Nagai</td>
<td>Kazukiyo</td>
<td>SEMI Japan</td>
<td>Tejima</td>
<td>Naoko</td>
</tr>
</tbody>
</table>

*alphabetical order by last name

Table 2 Leadership Changes
None.

Table 3 Ballot Results
Passed ballots and line items will be forwarded 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.

<table>
<thead>
<tr>
<th>Document #</th>
<th>Document Title</th>
<th>Committee Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>5796</td>
<td>Reapproval of SEMI D20-0706 Terminology for FPD Mask Defect</td>
<td>Passed as ballotted</td>
</tr>
<tr>
<td>5797</td>
<td>Reapproval of SEMI D21-0706 Terminology for FPD Mask Pattern Accuracy</td>
<td>Passed as ballotted</td>
</tr>
<tr>
<td>5798</td>
<td>Reapproval of SEMI D42-0308 Specification for Ultra Large Size Mask Substrate Case</td>
<td>Passed as ballotted</td>
</tr>
<tr>
<td>5799</td>
<td>Reapproval of SEMI D53-0308 Specification for Liquid Crystal Display (LCD) Pellicles</td>
<td>Passed as ballotted</td>
</tr>
</tbody>
</table>

Table 4 Authorized Ballots
None.

Table 5 Authorized Activities
None.
Table 6 New Action Items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPD M&amp;C 150206-01</td>
<td>SEMI Staff</td>
<td>To correct start time of the next FPD Metrology Japan TC Chapter meeting to 14:00 of the previous meeting minutes.</td>
</tr>
<tr>
<td>FPD M&amp;C 150206-02</td>
<td>SEMI Staff</td>
<td>To correct FPD M&amp;C 140418-01 in Table 7 Previous Meeting Action Items to “To contact Backlight Task Force co-leaders” of the previous meeting minutes.</td>
</tr>
<tr>
<td>FPD M&amp;C 150206-03</td>
<td>SEMI Staff</td>
<td>To forward adjudication result of Doc.#5796 to the ISC A&amp;R Subcommittee for procedural review.</td>
</tr>
<tr>
<td>FPD M&amp;C 150206-04</td>
<td>SEMI Staff</td>
<td>To forward adjudication result of Doc.#5797 to the ISC A&amp;R Subcommittee for procedural review.</td>
</tr>
<tr>
<td>FPD M&amp;C 150206-05</td>
<td>SEMI Staff</td>
<td>To forward adjudication result of Doc.#5798 to the ISC A&amp;R Subcommittee for procedural review.</td>
</tr>
<tr>
<td>FPD M&amp;C 150206-06</td>
<td>SEMI Staff</td>
<td>To forward adjudication result of Doc.#5799 to the ISC A&amp;R Subcommittee for procedural review.</td>
</tr>
<tr>
<td>FPD M&amp;C 150206-07</td>
<td>Polarizing Film Task Force</td>
<td>To send the revised SNRAF of Doc. #5555 to SEMI until March 15 for 2 weeks review by TC Members.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Since after the committee meeting, it was turned out that 2 weeks review by TC members does not need for revised SNARF, TF will present it at the next committee meeting.</em></td>
</tr>
<tr>
<td>FPD M&amp;C 150206-08</td>
<td>SEMI Staff</td>
<td>To send the revised SNRAF of Doc. #5555 to Global TC Members to review for 2 weeks.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Since after the committee meeting, it was turned out that 2 weeks review by TC members does not need for revised SNARF.</em></td>
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</table>

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 February 6, 2015. It was pointed the following 2 items should be changed.

- Start time of the next FPD Metrology Japan TC Chapter meeting should be corrected to **14:00**.
- “To contact co-leaders” of FPD M&C 140418-01 in Table 7 Previous Meeting Action Items should be corrected to “To contact Backlight Task Force co-leaders”.

**Motion:** To approve the minutes of the previous meeting as written after the above points are corrected.

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

**Discussion:** None

**Vote:** 6 in favor and 0 opposed. **Motion passed.**

**Action Item:** SEMI staff to correct start time of the next FPD Metrology Japan TC Chapter meeting to **14:00** of the previous meeting minutes.

**Action Item:** SEMI staff to correct FPD M&C 140418-01 in Table 7 Previous Meeting Action Items to “To contact Backlight Task Force co-leaders”.

**Attachment:** 01_JA_FPD_M&C_Metrology_Previous_Mtg_Minutes_150206
4 SEMI Staff Report


Attachment: 02_SEMI_Staff_Report_150206

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, Major Updates, Subcommittee/TF/WG Updates and Contact Information.

Attachment: 03_KR_FPD_Liaison_Report_150206

5.2 Taiwan FPD Committee Report

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

Attachment: 04_TW_FPD_Liaison_Report_150206

6 Ballot Review


This document passed committee review and will be forwarded to the ISC A&R SC for procedural review.

Action Item: SEMI staff to forward adjudication result of Doc.#5796 to the ISC A&R Subcommittee for procedural review.

Attachment: 05_Ballot_Report_for_5796_150206

6.2 Doc.#5797, Reapproval of SEMI D21-0706 Terminology for FPD Mask Pattern Accuracy.

This document passed committee review and will be forwarded to the ISC A&R SC for procedural review.

Action Item: SEMI staff to forward adjudication result of Doc.#5797 to the ISC A&R Subcommittee for procedural review.

Attachment: 06_Ballot_Report_for_5797_150206


This document passed committee review and will be forwarded to the ISC A&R SC for procedural review.

Action Item: SEMI staff to forward adjudication result of Doc.#5798 to the ISC A&R Subcommittee for procedural review.

Attachment: 07_Ballot_Report_for_5798_150206


This document passed committee review and will be forwarded to the ISC A&R SC for procedural review.

Action Item: SEMI staff to forward adjudication result of Doc.#5799 to the ISC A&R Subcommittee for procedural review.

Attachment: 08_Ballot_Report_for_5799_150206
7 JRSC Honor Award & Technical Committee Award
JRSC Honor Award was given to the below member to appreciate his outstanding efforts and contribution for many year

- Hisashi Aruga, Nishimatsuya Chain

Technical Committee Award were given to the below member to appreciate his outstanding efforts and leadership.

- Haruhiko Itoh, Teijin

8 Task Force Reports
8.1 Polarizing Film Task Force
Shigeo Kobayashi, Nitto Denko reported for the Polarizing Film Task Force. The Task Force met earlier in the day. Of note:

- Working for Doc. #5555, Revision to SEMI D50-0707, Test Method for Surface Hardness of FPD Polarizing Film.
- Scope of SNARF of Doc. #5555 should be expanded to Materials for FPD and Touch Panels.

Action Item: Polarizing Film Task Force to send the revised SNARF of Doc. #5555 to SEMI until March 15 for 2 weeks review by TC Members.

*Since after the committee meeting, it was turned out that 2 weeks review by TC members does not need for revised SNARF, TF will present it at the next committee meeting.

Action Item: SEMI Staff to send the revised SNARF of Doc. #5555 to Global TC Members to review for 2 weeks.

*Since after the committee meeting, it was turned out that 2 weeks review by TC members does not need for revised SNARF.

Attachment: 09_Polarizing_Film_TF_Report_150206

8.2 Flexible Display Task Force
Haruhiko Itoh reported on progress for the Flexible Display Task Force. The Task Force met earlier in the day. Of note:

- Making a survey regarding to stress test of Barrier Properties to Barrier films and ITO films manufacturers until March.
- Discussing about the result at the end of March.

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

8.4 FPD Mask Task Force
Kazuya Shiojiri reported for the FPD Mask Task Force. Of note:

- Doc.#5796, Reapproval of SEMI D20-0706 Terminology for FPD Mask Defect, passed committee review as previously discussed. (See 7).
- Doc.#5797, Reapproval of SEMI D21-0706 Terminology for FPD Mask Pattern Accuracy, passed committee review as previously discussed. (See 7).
- Doc.#5798, Reapproval of SEMI D42-0308 Specification for Ultra Large Size Mask Substrate Case, passed committee review as previously discussed. (See 7).
- Doc.#5799, Reapproval of SEMI D53-0308 Specification for Liquid Crystal Display (LCD) Pellicles, passed committee review as previously discussed. (See 7).
9 Old Business

9.1 Previous Meeting Action Items

Naoko Tejima reviewed the previous meeting action items.

### Table 7 Previous Meeting Actions Items

<table>
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<tr>
<th>Item #</th>
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<tbody>
<tr>
<td>FPD M&amp;C 141030-01</td>
<td>SEMI Staff</td>
<td>To correct “Meeting Attendees” and “New Action Items # FPD M&amp;C 140418-01” of the previous meeting minutes. … Close</td>
</tr>
<tr>
<td>FPD M&amp;C 141030-02</td>
<td>SEMI Staff</td>
<td>To forward adjudication result of Doc.#5550 to the ISC A&amp;R Subcommittee for procedural review. … Close</td>
</tr>
<tr>
<td>FPD M&amp;C 141030-03</td>
<td>SEMI Staff</td>
<td>To forward adjudication result of Doc.#5696 to the ISC A&amp;R Subcommittee for procedural review. … Close</td>
</tr>
<tr>
<td>FPD M&amp;C 141030-04</td>
<td>SEMI Staff</td>
<td>To submit reapproval ballot of SEMI D20 (#5796) for Cycle 8, 2014. … Close</td>
</tr>
<tr>
<td>FPD M&amp;C 141030-05</td>
<td>SEMI Staff</td>
<td>To submit reapproval ballot of SEMI D21 (#5797) for Cycle 8, 2014. … Close</td>
</tr>
<tr>
<td>FPD M&amp;C 141030-06</td>
<td>SEMI Staff</td>
<td>To submit reapproval ballot of SEMI D42 (#5798) for Cycle 8, 2014. … Close</td>
</tr>
<tr>
<td>FPD M&amp;C 141030-07</td>
<td>SEMI Staff</td>
<td>To submit reapproval ballot of SEMI D53 (#5799) for Cycle 8, 2014. … Close</td>
</tr>
</tbody>
</table>

10 New Business

None.

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 FPD Materials & Components Japan TC Chapter is scheduled for Friday, April 10, 2015, 14:00-17:00, SEMI Japan, Tokyo, Japan

13 Next Meeting and Adjournment

The next meeting of the FPD Materials & Components Japan TC Chapter and the FPD Metrology Japan TC Chapter Joint Meeting is scheduled for Friday, April 10, 2015, 14:00-17:00, SEMI Japan, Tokyo, Japan
Table 8 Index of Available Attachments

<table>
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<th>#</th>
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<tr>
<td>1</td>
<td>JA_FPD_M&amp;C &amp; Metrology_Previous_Mtg_Minutes_150206</td>
</tr>
<tr>
<td>2</td>
<td>SEMI_Staff_Report_150206</td>
</tr>
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<td>3</td>
<td>KR_FPD_Liaison_Report_150206</td>
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<td>Ballot_Report_for_5796_150206</td>
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#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.