



FPD Materials & Components Japan TC Chapter

Meeting Summary and Minutes

Japan Standards Spring 2018 Meetings

Friday, May 11, 2018, 14:30-17:00

SEMI Japan office, Tokyo, Japan

TC Chapter Announcements

Japan Standards Fall 2018 Meetings

Friday, October 12, 2018 (Time to be decided)

Yamagata University, Yonezawa City, Yamagata Prefecture, Japan

Table 1 Meeting Attendees

Co-Chairs: Tadahiro Furukawa (Yamagata University) / Yoshi Shibahara (FUJIFILM)

SEMI Staff: Chie Yanagisawa

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Corning	Okamura	Haruo	Nitto Denko	Tatsumi	Motoshige
FUJIFILM	Ishizuka	Hiroshi	Sumitomo Bakelite	Eguchi	Toshimasa
HOYA	Ihara	Hirofumi	Yamagata University	Furukawa	Tadahiro
Japan Display	Watanabe	Ryoichi			
Nippon Steel & Sumikin Materials	Nakatsuka	Jun	SEMI Japan	Yanagisawa	Chie

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
None		

Table 3 Committee Structure Changes

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

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
5977B	New Standard: Test Method for Water Vapor Barrier Property for Plastic Films with High Barrier for Electronic Devices	Passed as ballot

#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 4 Activities Approved by the GCS between meetings of the TC Chapter

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

Table 5 Authorized Activities

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

#	Type	SC/TF/WG	Details
6406	SNARF	FPD Color Filter TF	Line Item Revision to SEMI D29-1101 (Reapproved 1113): Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters
6407	SNARF	FPD Color Filter TF	Line Item Revision to SEMI D30-0707 (Reapproved 1113): Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters
6408	SNARF	Polarizing Film TF	Line Item Revision to SEMI D46-0213: Terminology for FPD polarizing films
6410	SNARF	Polarizing Film TF	Line Item Revision to SEMI D67-0212: "Test Methods for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials" with title change to "Test Method for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials"
6409	SNARF	Flexible Display TF	Line Item Revision to SEMI D66-0212: Terminology for Plastic Substrates of Flexible Display

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

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

Table 6 Authorized Ballots

#	When	TF	Details
6406	Cycle 6-18	FPD Color Filter TF	Line Item Revision to SEMI D29-1101 (Reapproved 1113): Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters
6407	Cycle 6-18	FPD Color Filter TF	Line Item Revision to SEMI D30-0707 (Reapproved 1113): Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters
6409	Cycle 6-18	Flexible Display TF	Line Item Revision to SEMI D66-0212: Terminology for Plastic Substrates of Flexible Display

Table 7 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
None			

Table 8 SNARF(s) Abolished

#	TF	Title
None		

Table 9 Standard(s) to receive Inactive Status

Standard Designation	Title
SEMI D13-0708 (Reapproved 1113)	Terminology for FPD Color Filter Assemblies
SEMI D47-0307	Test Method for Measurement of Bent Cold Cathode Fluorescent Lamps

Table 10 New Action Items

Item #	Assigned to	Details
None		

Table 11 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20180126-01	Chie Yanagisawa (SEMI Japan)	To contact to Kazuya Shiojiri (SK Electronics) and to Kaname Nitobe (HOYA). -> CLOSE

1 Welcome, Reminders, and Introductions

Tadahiro Furukawa (Yamagata University), co-chair, called the meeting to order at 14:30. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01_Required_Elements_Reg_20150327_E+J

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting for FPD Materials & Components.

Motion:	To approve the minutes of the previous meeting for FPD Materials & Components with editorial change
By / 2nd:	Ryoichi Watanabe (Japan Display) / Toshimasa Eguchi (Sumitomo Bakelite)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

Attachment: 02_20180126_FPD-MC_Japan_MeetingMinutes_final

3 Liaison Reports

3.1 FPD Metrology Korea TC Chapter

Chie Yanagisawa (SEMI Japan) reported for FPD Metrology Korea TC Chapter as attached material.

Attachment: 03_KR_FPDM_2018_May

3.2 FPD Metrology Taiwan TC Chapter

Chie Yanagisawa (SEMI Japan) reported for FPD Metrology Taiwan TC Chapter as attached material, which was also presented in the previous TC Chapter meeting on January 26, 2018 because no TC Chapter meeting was held since then.

Ryoichi Watanabe (Japan Display) commented that the following six ballots (6302A, 6304A, 6305A, 6306A, 6307A and 6308A) are on voting for Cycle 4 and there seem to be several problems about those documents as follows.

- Ballot adjudication of 6302, 6304, 6305, 6306, 6307 and 6308 was scheduled on April 2, 2018, however, the announcement was made that the TC Chapter meeting is postponed to April 20, 2018.
- Then 6302A, 6304A, 6305A, 6306A, 6307A and 6308A are on voting for Cycle 4, however, the ballot submission of them was not approved at the TC Chapter meeting or by the GCS.

Chie Yanagisawa (SEMI Japan) explained that change for ballot review date violates to the Regulations, and those ballots seem to be submitted again. She will check the procedure for those ballots.

Attachment: 04_Taiwan FPD Standard Committee Liaison Report December 2017

3.3 SEMI Staff Report

Chie Yanagisawa (SEMI Japan) gave the SEMI Staff Report as attached. Items are:

- SEMI Global 2018 Calendar of Events
- Global Standards Meeting Schedule
- SEMICON Japan Standards Meetings
- 2018 Critical Dates for SEMI Standards Ballots
- A&R Ballot Review
- SEMI Standards Publications
- Standards Topics for SEMI Japan E-mail Newsletter
- Global Staff Assignment
- Staff Contact –Japan

Attachment: 05_SEMI Staff Report 20180423_r0.1

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 # 5977B, New Standard: Test Method for Water Vapor Barrier Property for Plastic Films with High Barrier for Electronic Devices

This document passed as balloted as attached Letter Ballot Review Sheet.

Chie Yanagisawa (SEMI staff) added the following information.

- Per 16.3.2 of SEMI Standards Regulations, the TC Chapter performed the assessment of Possible Relevance of Patented Technology to this document at the TC Chapter meeting held on September 15, 2017 as attached TC Chapter meetings minutes.
- The LOA reached to SEMI Japan on November 27, 2017.

Attachment: 06_5977B_LetterBallotReviewSheet

5 Subcommittee and Task Force Reports

5.1 Flexible Display Task Force

Eguchi (Sumitomo Bakelight) reported for the Flexible Display Task Force as follows.

- Doc#5977: New Standard: Test Method for Water Vapor Barrier Property for Plastic Films with High Barrier for Electronic Devices
 - Ballot #5977B received several comments and the TF discussed them and decided how to address to them
 - As a result, the ballot passed as ballot at “Ballot Review” section of this meeting above.
- SEMI D66-0212: Terminology for Plastic Substrates of Flexible Display
 - Discussed what action for 5 Year Review on this document and to propose a new SNARF draft and the ballot submission at “New Business” section later of this meeting.

5.2 FPD Color Filter Task Force

Tadahiro Furukawa (Yamagata University) reported for the FPD Color Filter Task Force as follows.

- The following two documents by this TF passed A&R in March 2018.
 - #6102: Line Item Revision to SEMI D22-1109, Test Method for the Determination of Color, Transmittance of FPD Color Filter Assemblies
 - #6103A: Line Item Revision to SEMI D63-0811, “Measurement Method for Depolarization Effect of FPD Color Filter” with Title Change to “Test Method for Depolarization Effect of FPD Color Filter”
- As a result of five-year review on the following two documents, the TF to propose new SNARFs for revision to them at “New Business” section later of this meeting.
 - SEMI D29-1101 (Reapproved 1113): Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters
 - SEMI D30-0707 (Reapproved 1113): Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters
- As a result of the five-year review on the following document, the TF to propose to let it receive inactive status at “Old Business” section
 - SEMI D13-0708 (Reapproved 1113): Terminology for FPD Color Filter Assemblies

5.2.1 FPD Mask Task Force

Hirofumi Ihara (HOYA) reported there is no update for this task force.

5.3 Polarizing Film Task Force

Motoshige Tatsumi (Nitto Denko) reported for the Polarizing Film Task Force as follows.

- The following two documents by this TF passed A&R in March 2018.
 - #6006: New Standard: Test method for measurements of dimension of films for FPD – contour matching method
 - #6014: Revision to SEMI D60-0710: Test Method of Surface Scratch Resistance for FPD Polarizing Film and Its Materials, with title change to: Test Method of Surface Scratch Resistance for FPD Polarizing Film and Cover Plastics for Mobile Displays
- As a result of five-year review on the following two documents, the TF to propose new SNARFs for revision to them at “New Business” section later of this meeting.
 - SEMI D46-0213: Terminology for FPD Polarizing Films
 - SEMI D67-0212: Test Methods for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials

6 Old Business

6.1 5-Year Review from the previous meeting

6.1.1 SEMI D13-0708 (Reapproved 1113): Terminology for FPD Color Filter Assemblies by Color Filter TF

Ryoichi Watanabe (Japan Display) addressed the committee on this topic and he made a proposal as follows.

Motion:	To agree that the TC Chapter let SEMI D13-0708 (Reapproved 1113) receive inactive status
By / 2nd:	Ryoichi Watanabe (Japan Display) / Hirofumi Ihara (HOYA)
Discussion:	None
Vote:	7 in favor and 0 opposed. Motion passed.

7 New Business

7.1 Proposal for New SNARF and Ballot Submission

7.1.1 SEMI D29-1101 (Reapproved 1113): Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters by FPD Color Filter TF

Hiroshi Ishizuka (FUJIFILM) addressed the committee on this topic and he made a proposal as follows.

Motion:	To approve SNARF for Line Item Revision to SEMI D29-1101 (Reapproved 1113)
By / 2nd:	Hiroshi Ishizuka (FUJIFILM) / Ryoichi Watanabe (Japan Display)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

Motion:	To authorize the ballot submission for Cycle 6-2018
By / 2nd:	Hiroshi Ishizuka (FUJIFILM) / Ryoichi Watanabe (Japan Display)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

7.1.2 SEMI D30-0707 (Reapproved 1113): Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters by FPD Color Filter TF

Hirofumi Ihara (HOYA) addressed the committee on this topic and he made a proposal as follows.

Motion:	To approve SNARF for Line Item Revision to SEMI D30-0707 (Reapproved 1113)
By / 2nd:	Hirofumi Ihara (HOYA) / Hiroshi Ishizuka (FUJIFILM)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

Motion:	To authorize the ballot submission for Cycle 6-2018
By / 2nd:	Hirofumi Ihara (HOYA) / Hiroshi Ishizuka (FUJIFILM)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

7.1.3 SEMI D46-0213: Terminology for FPD Polarizing Films by Polarizing Film Task Force

Motoshige Tatsumi (Nitto Denko) addressed the committee on this topic and he made a proposal as follows.

Motion:	To approve SNARF for Line Item Revision to SEMI D46-0213
By / 2nd:	Motoshige Tatsumi (Nitto Denko) / Hiroshi Ishizuka (FUJIFILM)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

7.1.4 SEMI D67-0212: Test Methods for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials by Polarizing Film Task Force

Hiroshi Ishizuka (FUJIFILM) addressed the committee on this topic and he made a proposal as follows.

Motion:	To approve SNARF for Line Item Revision to SEMI D67-0212
By / 2nd:	Hiroshi Ishizuka (FUJIFILM) / Motoshige Tatsumi (Nitto Denko)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

7.1.5 SEMI D66-0212: Terminology for Plastic Substrates of Flexible Display by Flexible Display Task Force

Toshimasa Eguchi (Sumitomo Bakelite) addressed the committee on this topic and he made a proposal as follows.

Motion:	To approve SNARF for Line Item Revision to SEMI D66-0212
By / 2nd:	Toshimasa Eguchi (Sumitomo Bakelite) / Ryoichi Watanabe (Japan Display)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

Motion:	To authorize the ballot submission for Cycle 6-2018
By / 2nd:	Toshimasa Eguchi (Sumitomo Bakelite) / Ryoichi Watanabe (Japan Display)
Discussion:	None
Vote:	6 in favor and 0 opposed. Motion passed.

7.2 Discussion on SEMI D19, SEMI D45 and SEMI D47

7.2.1 FPD Color Filter TF: SEMI D19-0305 (Reapproved 0412): Test Method for the Determination of Chemical Resistance of Flat Panel Display Color Filters

Tadahiro Furukawa (Yamagata University) said that he will review this document further if it requires any action on it or not.

7.2.2 FPD Color Filter TF: SEMI D45-0706 (Reapproved 0412): Measurement Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter

Tadahiro Furukawa (Yamagata University) said that he will review this document further if it requires any action on it or not.

7.2.3 Flexible Display TF: SEMI D47-0307: Test Method for Measurement of Bent Cold Cathode Fluorescent Lamps

Ryoichi Watanabe (Japan Display) addressed the committee on this topic and he made a proposal as follows.

Motion:	To agree that the TC Chapter let SEMI D47-0307 receive inactive status
By / 2nd:	Ryoichi Watanabe (Japan Display) / Hirofumi Ihara (HOYA)
Discussion:	None
Vote:	7 in favor and 0 opposed. Motion passed.

8 Action Item Review

8.1 Open Action Items

Closed

8.2 New Action Items

None

9 Next Meeting and Adjournment

The next meeting is scheduled as follows. See <http://www.semi.org/standards-events> for the current list of events.

The next FPD Materials & Components Japan TC chapter meeting will be held as follows.

- Date: Friday, October 12, 2018
- Time: to be decided
- Venue: Yamagata University, Yonezawa City, Yamagata Prefecture, Japan



Respectfully submitted by:

Chie Yanagisawa

Manager

SEMI Japan

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Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	August 22, 2018
Yoshi Shibahara (FUJIFILM), Co-chair	MM DD, 2018

Table 12 Index of Available Attachments#1

<i>Title</i>	<i>Title</i>
01_Required_Elements_Reg_20150327_E+J	04_Taiwan FPD Standard Committee Liaison Report December 2017
02_20180126_FPD-MC_Japan_MeetingMinutes_final	05_SEMI Staff Report 20180423_r0.1
03_KR_FPDM_2018_May	06_5977B_LetterBallotReviewSheet

#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.