

Taiwan FPD-Metrology Committee Meeting Summary and Minutes

22 April, 2014, 15:10-16:45
ITRI R#302, Hsinchu, Taiwan

Next Committee Meeting
July 22, 2014

Committee Announcements (optional)

Table 1 Meeting Attendees (10 Attendees)

Chair: Dr. Jiunn Wen (Acting Dr. T. Y. Lin)

SEMI Staff: Cher Wu

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
CMS, ITRI	Wen	Bor-Jiunn	AUO	Chang	Jay
CMS, ITRI	Halliehy	Su	E Ink	Tai	Jed
CMS, ITRI	Wang	Alex	Innolux	Chen	Tomy
CMS, ITRI	Hsu	Mg	Wistron	Hsu	Jingying
AUO	Fang	Yen-Wen			

Table 2 Leadership Changes

Angela Fang/E INK stepped down. New leader of e-paper is Mr. Jed Tai.

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>
#5293B	Test Method for Positional Accuracy of Touchscreen Panel	Failed, Re-work
#5533A	Test Methods for Color Properties of Electronic Paper Displays	Passed, go to A&R

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)

<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)

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

1. (Discussion Postpone) OLED related issues will be kept discussing by ITRI. The feasibility to setup a TF will discuss on the next meeting.
2. (Discussion Postpone) Transparent Display related issues will be kept discussing by ITRI. The feasibility to setup a TF will discuss on the next meeting.



1 Welcome, Reminders, and Introductions

Committee Acting Chair Dr. Bor-Jiunn Wen, (ITRI) called the meeting to order at 15:10. 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 Acting Chair Dr. Wen (ITIR) asked for all attendees to review and approve last committee meeting minutes.

By / 2nd: Bor-Jiunn Wen(ITRI)/ Yen-Wen Fang (AUO).

Discussion: None

Vote: 5-0 in favor, Motion Passed.

3 Liaison Reports

- Japan FPD Materials & Components Committee Liaison Report
- Leadership Changes
 - ◆ Committee Co-chairs
 - ✓ Tadahiro Furukawa/ Yamagata University
 - ✓ Yoshi Shibahara/ Fujifilm
 - ✓ Hisashi Aruga/ Seiko Epson stepped down a co-chair position, and his replacement is TBD.
 - ◆ FPD Color Filter Task Force Co-leaders
 - ✓ Hisashi Aruga/ Seiko Epson stepped down a co-leader position, and Tadahiro Furukawa/ Yamagata University was appointed as a new co-leader.
 - ◆ Flexible Display Task Force Co-leaders
 - ✓ Takashi Shiro/ Teijin stepped down a co-leader position, and Haruhiko Ito/ Teijin was appointed as a new co-leader.
 - ◆ FPD Mask Task Force
 - ✓ FPD Mask TF was newly set up, and Kaname Nitobe/ HOYA and Kazuya Shiojiri/ SK Electronics were appointed as co-leaders
- Meeting Information
 - ◆ Last Meeting
 - ✓ April 18, 2014 during Japan Standards Spring 2014 Meetings at SEMI Japan, Tokyo, Japan
 - ◆ Next Meeting
 - ✓ October 30, 2014 during Japan Standards Fall 2014 Meetings at SEMI Japan, Tokyo, Japan
- Upcoming Ballots
 - ◆ Cycle 3, 2014 – to be reviewed on October 30
 - ✓ Doc. #5550, New Standard: Guide for Measuring Dimensions for Plastic Films/Substrates
 - ✓ Doc. #5696, Reapproval of SEMI D9-0303 (Reapproved 0709) - Terminology for FPD Substrates
- Task Force Updates (1)
 - ◆ Polarizing Film Task Force
 - ✓ Working for Doc. #5555, Revision to SEMI D50-0707, Test Method for Surface Hardness of FPD Polarizing Film.
 - ✓ TF is discussing new business which may be able to standardize, such as Circular Polarization, Touch Screen Panel, Mechanical Test, Optical Properties, Environmental Test, Size, Recycle and so on.
 - ◆ Flexible Display Task Force
 - ✓ Working for 2 New Standards as below;

- ✓ Doc. #5550, New Standard: Guide for Measuring Dimensions for Plastic Films/Substrates, will be balloted for Cycle 3, 2014.
- ✓ Doc. #5551, New Standard: Measurement Method of Water Vapor Transmission Rate for Plastic Films and Sheets with High Barrier Properties for Electronic Devices
- ✓ Takashi Shiro/ Teijin stepped down a co-leader position, and Haruhiko Ito/ Teijin was appointed as a new co-leader.

◆ Backlight Task Force

- ✓ The Task Force currently has no activity.

◆ FPD Color Filter Task Force

- ✓ The Task Force currently has no activities.
- ✓ Hisashi Aruga/ Seiko Epson stepped down a co-leader position, and Tadahiro Furukawa/ Yamagata University was appointed as a new co-leader

◆ FPD Mask Task Force

- ✓ FPD Mask TF was newly set up, and Kaname Nitobe/ HOYA and Kazuya Shiojiri/ SK Electronics were appointed as co-leaders.

Charter:

- ✓ To update FPD Mask Standards with latest information and industry accepted terms.
- ✓ To develop technical standard specifications and guides related to photomask for FPD manufacturing.

Scope:

- ✓ 1) Develop specifications/guides for photomask for FPD manufacturing.
- ✓ 2) Develop specifications/guides for equipment, components and materials to manufacture the photomask for FPD.
- ✓ 3) Specify equipment and materials used for test and inspection in the specification and for quality control of the photomask for FPD.
- ✓ 4) Revise the Standards due for 5-Year Review

- For question, contact Naoko Tejima, SEMI Japan Staff at email: ntejima@semi.org

Attachment: Japan FPD M+C Committee Liaison Report20140421

- Korea FPD Material's & Components Committee Liaison Report in December, 2013

● Leadership

◆ Co-chairs

- ✓ Jongseo Lee (Samsung Display)
- ✓ Il-Ho Kim (LMS)

◆ Leadership Changes

- ✓ Color Assessment task force disbanded.
- ✓ Optical Characteristics Measurement task force disbanded.
- ✓ Perceptual Image Quality task force newly formed. The leader is;
- ✓ Jongho Chong (Samsung Display)
- ✓ Perceptual Viewing Angle task force newly formed. The leader is;

- ✓ Myoungyoug Lee (LG Electronics)
 - ✓ Transparent Display task force newly formed. The leader is;
 - ✓ JongSeo Lee (Samsung Display)
 - Meeting Information
 - ◆ Previous Meeting
 - ✓ February 14, 2014 at COEX, Seoul in conjunction with SEMICON Korea 2014
 - ◆ Next Meeting
 - ✓ June 20, 2014 at COEX, Seoul in conjunction with SEMICON Korea 2014
 - Major Updates
 - ◆ Reviewed Ballot (cycle 8, 2013)
 - ✓ 5633 (New Standard, Viewing Angle Characteristic test method)_Failed
 - ✓ 5634 (Color Reproduction and Perceptual Contrast test method)_Passed
 - ◆ Authorized Ballot
 - ✓ 5633A (New Standard, Viewing Angle Characteristic test method) in Cycle 3, 2014
 - Subcommittee/TF/WG Updates
 - ◆ Tone and Color TF
 - ✓ If there isn't any follow-up activity, the TF will be disbanded
 - ◆ Perceptual Image Quality TF
 - ✓ Doc. 5633 failed committee review and Doc.5633A authorized cycle 3 ballot.
 - ◆ Perceptual Viewing Angle TF
 - ✓ Doc. 5364 passed committee review and waiting for A&R review.
 - ◆ Transparent Display TF
 - ✓ No update.
- For question, contact Natalie Shim, Specialist, Standards, SEMI Korea Staff at email: eshim@semi.org

Attachment: Korea FPD M+C Committee Liaison Report March

4. SEMI Staff Report

SEMI will organize Safety Standards Training and SECS/GEM Training in June and July.

5. Ballot Review

5.1 Doc. #5533A, reject negative comment most are editorial comment, not technical comment.
Motion: Review the #5533 Ballot with reject negative comment and clear the negative comment. After review, sent #5533 for A&R.
By / 2nd: Bor-Jiunn Wen(ITRI)/ Yen-Wen Fang (AUO)
Discussion: None.
Voted: 6-0-0, Motion passed

5.2 Doc.#5293B, accept the negative comment from reject voter. Negative comment is persuasive.
Motion: Re-work Ballot #5293B, plan to submit to Cycle 4.
By/2nd: Yen Wen Fang (AUO)/ Alex Wang(ITRI)
Discussion: None.
Voted: 6-0-0, Motion passed

Motion: Submit to Cycle 4.
By/2nd: Yen Wen Fang (AUO)/ Alex Wang(ITRI)
Discussion: None.
Voted: 6-0-0, Motion passed

5. Task Force Update

- ◆ **Touch Screen Panel TF Report by Yen-wen Fang (AUO).** Discussion on ballot #5293B results and will rework document and plan to submit to Cycle 4.
- ◆ **e-Paper TF Report by Bor-Jiunn Wen (ITRI).** TF leader Dr. Angela Fan(E INK) Stepped down, proposed new leader Sheng-Chieh Tai (E INK)

Motion: New TF leader Sheng-Chieh Tai (E INK)
 By / 2nd: Bor-Jiun Wen (ITRI)/ Yen-Wen Fang (AUO)
 Discussion:
 Voted: 6-0-0, Motion passed

◆ **Flexible TF Report by Alex Wang (ITRI).**

Working on the SNARF for: New Standard: Test Methods for Flexibility Properties of Flexible Displays, but team members still have different opinions on this SNARF. So, will re-work.

6. New Business

6.1 OLED related issues will start to discuss by ITRI. The feasibility to setup a TF will discuss on the next meeting.

6.2 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

7.1 Request a teleconference meeting with Japan FPD TC Meeting on Oct. 30 through GoToMeeting and website. Can arrange the meeting in September.

7.2 When Japan can review Cycle 3 ballot in October, why can last so long, is it following SEMI Rule? Check with HQ and Japan.

7.3 When is the SEMI regulation able to be revised?

7.4 OLED related issues will be kept discussing by ITRI. The feasibility to setup a TF will discuss on the next meeting.

7.5 Transparent Display related issues will be kept discussing by ITRI. The feasibility to setup a TF will discuss on the next meeting.

8. Next Meeting and Adjournment

July 22, 2014 (15:00-17:00)

Respectfully submitted by:

Cher Wu

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Minutes approved by:

T. Y. Lin, Chair/ Acting Chair Bor-Jiunn Wen (ITRI)	<Date approved> May, 07, 2014
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Table 8 Index of Available Attachments #1

#	Title	#	Title
0	<u>SEMI Taiwan FPD Committee Meeting Minutes 20140422</u>	3	<u>FPD M+C LiaisonR for TW r1.0</u>
1	<u>Touch Screen Panel TF</u>	4	<u>KR FPD-Met Liaison 2014March</u>
2	<u>e-Paper TF</u>	5	<u>Flexible TF</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.