Korea FPD Metrology Committee

1. Meeting Summary and Minutes

Friday, June 20, 2014 14:00 – 16:00

Korea Institute of Lighting Technology, Bucheon-si, Gyeonggi-do, Korea

**Next Committee Meeting**

Friday, September 26, 14:00 – 17:00 <KST>

SEMI Korea office, Seoul, Korea (Tentative)

**Committee Announcements**

None

| Meeting Attendees**Co-Chairs:** Jongseo Lee (Samsung Display), Il-Ho Kim (LMS)**SEMI Staff:** Natalie Shim |
| --- |
| Company | Last | First | Company | Last | First |
| KILT | Cho | Meeryoung | Samsung Display | Chong | Jongho |
| LG Electronics | Lee | Myongyoung | Samsung Display | Lee | Jongseo |
| LMS | Kim | Il-ho |  |  |  |

| Leadership Changes |
| --- |

None

| 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. |
| --- |
| Document # | Document Title | Committee Action |
| 5633A | New Standard, Test Method for Viewing Angle Characteristic using Mixed Color on Visual Displays | **Failed** and sent to TF for rework. |

| Authorized Ballots  |
| --- |
| # | When | SC/TF/WG | Details |
| 5633B | Cycle 5, 2014 | Perceptual Viewing Angel TF | New Standard, Test Method for Viewing Angle Characteristic using Mixed Color on Visual Displays |
| 5634A | Cycle 5, 2014 | Perceptual Image Quality TF | New Standard, Test Method for Color Reproduction and Perceptual Contrast of Displays |

| Authorized Activities |
| --- |
| # | Type | SC/TF/WG | Details |
| 5634 | SNARF | Perceptual Image Quality TF | Change the SNARF title from “New Standard, Test Method for Color Reproduction and Perceptual Contrast Visual Display” to “New Standard, Test Method for Color Reproduction and Perceptual Contrast Displays” |

| New Action Items |
| --- |

None

|  Previous Meeting Actions Items |
| --- |

None

1. Welcome, Reminders, and Introductions

Jongseo Lee (Samsung Display) called the meeting to order at 14:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

**Attachment:** 01, Meeting reminders

1. Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting.

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| --- | --- |
| **Motion:** | Approve previous meeting minutes as it is |
| **By / 2nd:** | Jongho Chong (Samsung Display)/ Jae Hong Kim (LG Display) |
| **Discussion:** | None |
| **Vote:** | 3-0, motion carried |

**Attachment:** 02, previous meeting minutes

1. Liaison Reports
	1. *Japan FPD Metrology Committee*

Natalie Shim (SEMI Korea) reported for the Japan FPD Metrology Committee. Of note:

* Ballot Review Result
	+ **Passed** Ballot
		- Doc. 5685, Line Item Revision to SEMI D31-0213, with title change from “Definition of Measurement Index (DSEMU) for Luminance Mura in FPD Image Quality Inspection” to “Guide for Definition of Measurement Index (DSEMU) for Luminance Mura in FPD Image Quality Inspection”.
* Next Meeting: October 30, 2014 during Japan Standards Fall 2014 Meetings at SEMI Japan, Tokyo, Japan

**Attachment:** 03, Japan FP D Metrology committee liaison report

* 1. *Taiwan FPD Committee*

Natalie Shim reported for the Taiwan FPD Committee. Of note:

* Organization Changes
	+ Fang Hui-Mei stepped down from e-Paper Display task force leader, Jed Tai (E INK) appointed as new leader.
* Ballot Review Result
	+ **Failed** ballots
		- Doc. 5533A, New Standard, Test Methods for Color Properties of Electronic Paper Display
	+ **Passed** Ballots
		- Doc. 5293B, New Standard, New Test Method for Positional Accuracy of Touch Screen Panel
* Task force reports
	+ e-Paper task force focuses on reflectance measurement for Electronics Paper Displays; Terminology & Measurement method including incident illumination and measurement geometry.
	+ Touch Screen task force will re-work Doc. 5293C (Test Method for Positional Accuracy of Touch Screen Panel)
	+ Flexible Display task force is drafting SANRF; Test Methods for Flexibility Properties of Flexible Displays
* Next Meetings:
	+ July 22, 2014 at ITRI, Taiwan.

**Attachment:** 04, Taiwan FPD committee liaison report

* 1. *SEMI Staff Report*

Natalie Shim gave the SEMI Staff Report. Of note:

* Global 2014 Calendar of Events
	+ SEMI Advanced Semiconductor Manufacturing Conference (May 19-21, Saratoga Springs, New York)
	+ SEMICON West (July 8- 10, San Francisco, California)
	+ SEMICON Taiwan (September 3-5, Taipei)
	+ SEMICON Europa (October 7-9, Grenoble, France)
	+ SEMICON Japan (December 3-5, Tokyo)
* Critical Dates update
	+ 2014 Critical dates is introduced. It also can be found at SEMI website (www.semi.org/en/Stanards/P\_000788)
* SEMI Standards Publications Report
	+ January 2014 cycle
		- New Standards - 3, Revised Standards - 3, Reeapproval Standards - 0, Withdrawn Standards -1
	+ February 2014 cycle
		- New Standards - 4, Revised Standards - 5, Reeapproval Standards - 0, Withdrawn Standards -1
	+ March 2014 cycle
		- New Standards - 2, Revised Standards - 12, Reeapproval Standards - 0, Withdrawn Standards - 0
	+ April 2014 cycle
		- New Standards - 2, Revised Standards - 13, Reeapproval Standards - 0, Withdrawn Standards – 0 (Total SEMI Standards in portfolio: 905 including 106 Inactive Standards)
* SEMICON/LED Korea 2014 Standards Programs and Meeting schedule were also introduced.

**Attachment:** 05, SEMI Staff report

1. 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.

NOTE 1: Committee adjudication on Cycle 3 is detailed in the Audits & Reviews (A&R) Subcommittee Forms for procedural review. This A&R form is available as attachments to these minutes. The attachment number for each document is provided below the summary table.

4.1 *Cycle 3 Ballot*

| Document # | Document Title | Committee Action |
| --- | --- | --- |
| 5633A | New Standard, Test Method for Viewing Angle Characteristic using Mixed Color on Visual Displays | **Failed** and sent to TF for rework |

**Attachment:** 06, 5633A A&R\_Failed

**NOTICE:** This document met the 90% approval condition set forth in Section 9.6.3 of the *Regulations Governing SEMI Standards Committees* at the close of balloting.

**NOTICE:** This document did NOT meet the 90% approval condition set forth in Section 9.6.3 of the *Regulations Governing SEMI Standards Committees* at the close of balloting.

1. Subcommittee & Task Force Reports
	1. Tone and Color Task Force

As the task force completed its activity, Il-ho Kim raised the task force disband for the task force leader.

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| **Motion:** | Disband the Tone and Color task force |
| **By / 2nd:** | Il-Ho Kim(LMS)/ Meeryoung Cho (KILT) |
| **Discussion:** | None |
| **Vote:** | 5-0, motion carried |

* 1. Perceptual Viewing Angle Task Force

Myoungyoung Lee, The task force leader, reported Doc. 5633A ballot result. The author requested to fail the ballot to the committee and the committee accepted it. No official report was made.

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| --- | --- |
| **Motion:** | Fail the Doc. 5633A and authorize the Doc. 5633B for cycle 5, 2014 |
| **By / 2nd:** | Myongyoung Lee (LG Electronics)/ Jongho Chong (Samsung Display) |
| **Discussion:** | None |
| **Vote:** | 5-0, motion carried |

* 1. Perceptual Image Quality Task Force

Jongho Chong, The task force leader, reported that Doc. 5634 failed in A&R review process in June of 2014. He shared his rework status with committee members and requested SNARF title change and Doc 5634A in cycle 5.

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| --- | --- |
| **Motion:** | Approve the SNARF 5634 title change; “New Standard, Test Method for Color Reproduction and Perceptual Contrast Visual Display” to “New Standard, Test Method for Color Reproduction and Perceptual Contrast Displays” |
| **By / 2nd:** | Jongho Chong (Samsung Display)/ Myongyoung Lee (LG Electronics) |
| **Discussion:** | None |
| **Vote:** | 5-0, motion carried |

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| **Motion:** | Authorize the Doc. 5634A in cycle 5, 2014 |
| **By / 2nd:** | Jongho Chong (Samsung Display)/ Myongyoung Lee (LG Electronics) |
| **Discussion:** | None |
| **Vote:** | 5-0, motion carried |

* 1. Transparent Display Task Force

Jongseo Lee, the task force leader, reported that he is drafting the first ballot. The target cycle would be cycle 7, 2014. He will request the ballot authorization in the next committee meeting.

1. Old Business

None

1. New Business

None

1. Action Item Review

None

1. Next Meeting and Adjournment

The next meeting of the Korea FPD Metrology chapter is scheduled for Friday, September 26, 2014 at SEMI Korea office, Seoul, Korea

Respectfully submitted by:

Natalie Shim

Sr. Specialist, Standards

SEMI Korea

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Minutes approved by:

|  |  |
| --- | --- |
| Jongseo Lee (Samsung Display), Co-chair | <Date approved> |
| Il-Ho Kim (LMS), Co-chair | <Date approved> |

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| Index of Available Attachments #1 |
| # | Title | # | Title |
| 01 | Meeting reminders | 04 | Taiwan FPD committee liaison report |
| 02 | previous meeting minutes | 05 | SEMI Staff report |
| 03 | Japan FPD Metrology committee liaison report | 06 | 5633A A&R\_Failed |

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 Natalie Shim at the contact information above.