



FHE Japan TC Chapter

Meeting Summary and Minutes

Friday, July 14, 2023 15:00-16:05 [JST]

OVTCCM/ SEMI Japan Office, Tokyo Japan (Hybrid)

TC Chapter Announcements

Next TC Chapter Meeting

Friday, October 13, 2023 9:00-15:00

OVTCCM/ Yamagata University, Yamagata, Japan (Hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants.

Co-Chairs: Tadahiro Furukawa (Yamagata University)/ Ryoichi Watanabe (Japan Display Inc.)/ Satoshi Maeda (TOYOBO)
SEMI Staff: Akiko Yoshida (SEMI Japan)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
<i>Innolux Japan</i>	<i>Nakagawa</i>	<i>Takanobu</i>	TOPPAN	Ito	Manabu
Japan Display Inc.	Watanabe	Ryoichi	TOYOBO	Maeda	Satoshi
<i>Kobe University</i>	<i>Inoue</i>	<i>Mari</i>	Yamagata University	Furukawa	Tadahiro
<i>KOMORI CORPORATION</i>	<i>Ikeda</i>	<i>Hideki</i>	SEMI Japan	Yoshida	Akiko

Table 2 Leadership Changes

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

Table 3 TC Chapter Structure Changes

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

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
None		

#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 5 Ratification Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>ISC A&R Action</i>	<i>A&R Forms</i>
None			

Note 1: **Passed** Ratification ballots will be submitted to SEMI publication for final processing.

Note 2: **Failed** Ratification ballots were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 6 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 7 Authorized Activities

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

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

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

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

Table 8 Authorized Ballots

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
6978	Cycle 6	Tactile texture characteristics for FHE TF	New Standard: Test method and Guide for The Tactile Characteristics of Flexible Hybrid Electronics Materials and Products

Table 9 SNARF(s) Granted a One-Year Extension

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
None			

Table 10 SNARF(s) Abolished

<i>#</i>	<i>TF</i>	<i>Title</i>
None		

Table 11 Standard(s) to receive Inactive Status

<i>Standard Designation</i>	<i>Title</i>
None	

Table 12 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
FHE_JA_2023_0714_1	Tactile Texture Characteristics for FHE Task Force	To submit Doc.#6978 “Test Method and Guide for The Tactile Characteristics of Flexible Hybrid Electronics Materials and Products” Letter Ballot for Cycle 6.

Table 13 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

1 Welcome, Reminders, and Introductions

Tadahiro Furukawa (Yamagata University) called the meeting to order at 15:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01_Meeting Reminders

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the minutes as written.
By/ 2nd: Ryoichi Watanabe (Japan Display Inc.)/ Satoshi Maeda (TOYOBO)
Discussion: None.
Vote: 6-0. Motion passed

Attachment: 02_FHE JA TC Minutes_230414_R1

3 Liaison Reports

3.1 FHE Taiwan TC Chapter

Akiko Yoshida (SEMI Japan) reported for the FHE Taiwan TC Chapter. Of note:

- The last meeting was held on May 14 and the next meeting will be held on October 4.
- Doc.#6873A “New Standard: Guide for Salt Mist and Washability Test Flow for Control Module Connector of Electronic textiles” will be submitted for Cycle 6.
- New SNARF “New Standard: Test Method of Electromyography Sensing Technology of Flexible Hybrid Electronics and Electronic Textiles” proposed by the FHE System for Wearable Task Force was approved.

Attachment: 03_FHE TW Liaison Report_20230714

3.2 FLEX Japan 2023

Satoshi Maeda (TOYOBO), who is also a chair of the FLEX Japan Committee, reported for FLEX Japan 2023 to be held in conjunction with SEMICON Japan 2023. Of note:

- The theme of the event would be “Sustainability makes new business chance for Flexible Device and Printed Electronics.”
- FLEX Japan Conference will be held on December 13 on TechSTAGE.
- Exhibitors for FLEX Pavilion are welcomed.

Satoshi Maeda (TOYOBO) hoped the FHE Japan TC Chapter and FLEX Japan Committee would exchange information with each other to further develop the industry.

Attachment: 04_Introcuton of FLEX Japan 2023



4 SEMI Staff Report

Akiko Yoshida (SEMI Japan) gave the SEMI Staff Report. She added that forming of the FHE NA Chapter was approved by the North America Regional Standards Committee (NARSC) as well as the International Standards Committee (ISC) at SEMICON West this week and detailed information would be shared with the TC when she gets it.

Attachment: 05_Staff Report July 2023 v1

5 Ballot Review

None.

6 Subcommittee and Task Force Reports

6.1 *FHE Terminology Task Force*

Tadahiro Furukawa (Yamagata University) reported for the FHE Terminology Task Force. He said that by the time of the next TC Chapter meeting, Tadahiro Furukawa and Satoshi Maeda would work on the structure of the document.

6.2 *Tactile Texture Characteristics for FHE Task Force*

Tadahiro Furukawa (Yamagata University) reported for the Tactile Texture Characteristics for FHE Task Force. Draft Doc.#6978 “Test method and Guide for The Tactile Characteristics of Flexible Hybrid Electronics Materials and Products” has been finalized. He said that the TF would like to submit the document for Cycle 6 with some small modifications.

Motion: Authorize the submission of Doc.#6978 Letter Ballot for Cycle 6.

By/ 2nd: Mari Inoue Kobe University/ Satoshi Maeda (TOYOBO)

Discussion: None.

Vote: 5-0. Motion passed

7 Old Business

7.1 *Project Period Review*

None.

7.2 *5-Year Review*

None.

8 New Business

None.

9 Action Item Review

9.1 *Open Action Items*

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

9.2 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
FHE_JA_2023 0714_1	Tactile Texture Characteristics for FHE Task Force	To submit Doc.#6978 “Test method and Guide for The Tactile Characteristics of Flexible Hybrid Electronics Materials and Products” Letter Ballot for Cycle 6.

10 Next Meeting and Adjournment

The next meeting is scheduled for Friday, October 13, 2023 9:00-15:00 via OVTCCM and at Yamagata University, Yamagata, Japan, jointly held with FPD Materials and Components Japan TC Chapter meeting. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: [16:05].

Respectfully submitted by:

Akiko Yoshida

Standards & EHS

SEMI Japan

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Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	July 31, 2023
Ryoichi Watanabe (Japan Display Inc.), Co-chair	August 1, 2023
Satoshi Maeda (TOYOBO), Co-chair	August 2, 2023

Table 14 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01_Meeting Reminders	04_Introduction of FLEX Japan 2023
02_FHE JA TC Minutes_230414_R1	05_Staff Report July 2023 v1
03_FHE TW Liaison Report_20230714	

#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.