



FHE Japan TC Chapter

Meeting Summary and Minutes

Friday, February 9, 2024 13:00-15:00 [JST]

Official Virtual TC Chapter Meeting (OVTCCM)/ SEMI Japan Office, Tokyo, Japan (Hybrid)

TC Chapter Announcements

Next TC Chapter Meeting:

Friday, July 5, 2024 15:00-17:00 via OVTCCM and at SEMI Japan, Tokyo, Japan.

Table 1 Meeting Attendees

Italics indicate virtual participants.

FHE TC Co-Chairs: Tadahiro Furukawa (Yamagata University), Ryoichi Watanabe (Japan Display)/ 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>Fujikura Kasei</i>	<i>Wakabayashi</i>	<i>Katsutomo</i>	<i>TOYOBO</i>	<i>Kwon</i>	<i>Euichul</i>
<i>Innolux Japan</i>	<i>Nakagawa</i>	<i>Takanobu</i>	<i>TOYOBO</i>	<i>Maeda</i>	<i>Satoshi</i>
Japan Display	Ryoichi	Watanabe	Yamagata University	Furukawa	Tadahiro
Kobe University	Inoue	Mari	<i>Yuasa System</i>	<i>Hyodo</i>	<i>Kei</i>
<i>Komori Corporation</i>	<i>Ikeda</i>	<i>Hideki</i>	SEMI Japan	Yoshida	Akiko
<i>Toppan</i>	<i>Ito</i>	<i>Manabu</i>			

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	

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6978A	New Standard: Test Method and Guide for the Tactile Characteristics of Flexible Hybrid Electronics Materials and Products	Passed

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

#	Type	SC/TF/WG	Details
None			

Table 6 Authorized Activities

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

#	Type	SC/TF/WG	Details
None			

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

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

Table 7 Authorized Ballots

#	When	TF	Details
None			

Table 8 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
None			

Table 9 SNARF(s) Abolished

#	TF	Title
None		

Table 10 Standard(s) to receive Inactive Status

Standard Designation	Title
None	

Table 11 New Action Items

Item #	Assigned to	Details
FHE_20240209_01	SEMI Staff	To forward the ballot adjudication results of Doc.#6978A “Test method and Guide for The Tactile Characteristics of Flexible Hybrid Electronics Materials and Products” to ISC A&R Subcommittee for procedural review.

Table 12 Previous Meeting Action Items

Item #	Assigned to	Details
FHE_20231013_01	Tactile Texture Characteristics for FHE Task Force	To submit Doc.#6978A, Test method and Guide for the Tactile Characteristics of Flexible Hybrid Electronics Materials and Products, Letter Ballot for Cycle 9. →Closed

1 Welcome, Reminders, and Introductions

Tadahiro Furukawa called the meeting to order at 13:00. 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 FHE Japan TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the minutes for the previous FHE Japan TC Chapter meeting with one correction.

By / 2nd: By: Ryoichi Watanabe/ Japan Display Inc.
Second: Satoshi Maeda/ TOYOBO

Discussion: None.

Vote: Result: 7-Y 0-N. Motion Passed.

Attachment: 02_FPD M&C+FHE_JA_Mins_20231013_R1

3 Liaison Reports

3.1 FHE Taiwan TC Chapter

Akiko Yoshida (SEMI Japan) reported for the FHE Taiwan TC Chapter that there had been no updates from the previous meeting.

Attachment: 03_TW FHE TC Chapter Liaison Report_Oct 2023

3.2 FHE NA TC Chapter

Akiko Yoshida (SEMI Japan) reported for the FHE NA TC Chapter that there had been no updates from the previous meeting except for the below SNARFS approved by the GCS between TC Chapter meetings.

- Doc.# 7193, New Standard: Guide for Substrate and Interconnect Design of Flexible Hybrid Electronics
- Doc.#7212, New Standard: Guide for Inks Characterization for Flexible Hybrid Electronics

Details of those two SNARFs can be found at:

<http://downloads.semi.org/web/wstdsbal.nsf/NTS!OpenForm&Start=1&Count=200&Expand=8&Seq=2>

Attachment: 04_NA FHE Liaison Report Sept2023 v1

4 SEMI Staff Report

Akiko Yoshida (SEMI Japan) gave the SEMI Staff Report. Of note:

- SEMI Standards meetings were held during SEMICON Japan 2023. As this year marks the 50th anniversary of SEMI Standards Program, it was celebrated at the Friendship Party. The panel introducing activities of the FHE Japan TC Chapter was also displayed at the Standards 50th Anniversary Path in East Hall 2 at Exhibition site.
- The SEMI Standards Ballot and Voting System will be upgraded to improve performance, security, and usability, by seamlessly connecting the SEMI Standards program membership database and SEMI Virtual Meeting (SVM) system. A new online ballot system was supposed to be in full operation from Cycle 1, 2024, but was postponed to Cycle 3, 2024.

Attachment: 05_Staff Report Jan 2024 HK_N_AY_2024209

5 Ballot Review

NOTE 1: TC Chapter adjudication of ballots 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 file name for each balloted document is provided.

5.1 *Doc.#6978A, New Standard: Test Method and Guide for the Tactile Characteristics of Flexible Hybrid Electronics Materials and Products*

- **Passed** the TC Chapter review as balloted. Refer to attachment below for full details.

Attachment: 06_6978A_Ballot Review_Final

6 Task Force Reports

6.1 *FHE Terminology Task Force*

Tadahiro Furukawa (Yamagata University) reported for the FHE Terminology Task Force that there had been no updates as the Task Force would meet right after the TC meeting.

6.1.1 *Tactile Texture Characteristics for FHE Task Force*

The Task Force report was substituted for Ballot Review for Doc. #6978A, New Standard: Test Method and Guide for the Tactile Characteristics of Flexible Hybrid Electronics Materials and Products.

7 Old Business

7.1 *Project Period Review*

None.

7.2 *5-year Review*

None.

8 New Business

There was a discussion regarding setting up a group within the TC to review/study documents proposed by the other chapters of FHE Global TC. Also, it was discussed how to promote Doc.#6978A when it is published. Some of the candidates would include writing an article for Journal of the Textile Machinery Society of Japan as well as the Society of Fiber Science and Technology, Japan.

9 Action Item Review

9.1 *Open Action Items*

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
FPDM&C_202310 13_01	Tactile Texture Characteristics for FHE Task Force	To submit Doc.#6978A “Test method and Guide for The Tactile Characteristics of Flexible Hybrid Electronics Materials and Products” Letter Ballot for Cycle 6. →Closed.

9.2 *New Action Items*



<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
FHE_20240209_01	SEMI Staff	To forward the ballot adjudication results of Doc.#6978A “Test method and Guide for The Tactile Characteristics of Flexible Hybrid Electronics Materials and Products” to ISC A&R Subcommittee for procedural review.

10 Next Meeting and Adjournment

FHE Japan TC Chapter meeting will be held on Friday, July 5, 2024 15:00-17:00 via OVTCCM and at SEMI Japan, Tokyo, Japan.

See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: [15:00].

Respectfully submitted by:

Akiko Yoshida

Standards & EHS

SEMI Japan

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Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	March 1, 2024
Ryoichi Watanabe (Japan Display, Co-chair	February 22, 2024
Satoshi Maeda (TOYOBO), Co-chair	February 22, 2024

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01_Meeting Reminders	02_FPD M&C+FHE_JA_Mins_20231013_R1
03_TW FHE TC Chapter Liaison Report_Oct 2023	04_NA FHE Liaison Report Sept2023 v1
05_Staff Report Jan 2024 HK_N_AY_2024209	06_6978A_Ballot Review_Final

#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 Akiko Yoshida at the contact information above.