



FHE Japan TC Chapter

Meeting Summary and Minutes

Friday, April 14, 2023 15:00-17:00 [JST]
OVTCCM/ SEMI Japan Office, Tokyo Japan (Hybrid)

TC Chapter Announcements

Next TC Chapter Meeting

Friday, July 14, 2023 15:00-17:00

OVTCCM/ SEMI Japan Office, Tokyo, 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), Nobuko Okayasu (SEMI Japan)

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
<i>AiQ Smart Clothing Inc.</i>	<i>Huang</i>	<i>Steve</i>	<i>TOYOBO</i>	<i>Maeda</i>	<i>Satoshi</i>
<i>Innolux Japan</i>	<i>Nakagawa</i>	<i>Takanobu</i>	<i>Yuasa System</i>	<i>Hyodo</i>	<i>Kei</i>
Japan Display Inc.	Watanabe	Ryoichi	SEMI Japan	Kanno	Hirofumi
<i>Kobe University</i>	<i>Inoue</i>	<i>Mari</i>	SEMI Japan	Okayasu	Nobuko
Yamagata University	Furukawa	Tadahiro	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>
None			

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>
None		

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 with a correction.

By/ 2nd: Ryoichi Watanabe (Japan Display Inc.)/ Takanobu Nakagawa (Innolux Japan)

Discussion: Correction was made to 8 New Business to clarify what SNARF.

Vote: 6-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority

Attachment: 02_230126_FHE Japan Minutes

3 Liaison Reports

3.1 FHE Taiwan TC Chapter

Steve Huang (AiQ Smart Clothing) reported for the FHE Taiwan TC Chapter. Of note:

- Although the FHE Taiwan TC Chapter meeting has not been held for a while, the FHE System for Wearable TF was held in February.
- Doc.#6873 “New Standard: Guide for Salt Mist and Washability Test Flow for Control Module Connector of Electronic textiles” failed A&R procedural review, and was returned to the TF for rework.
- The TF submitted a SNARF “New Standard: Test Method of EMG Sensing Technology of Flexible Hybrid Electronics and Electronic Textiles” to GTC for two-week review.

Ryoichi Watanabe (Japan Display Inc.) asked whether the TF intends to apply this document to the medical and healthcare field. Steve Huang said that this document would focus on test method and its conditions only.

Tadahiro Furukawa (Yamagata University) recommended not to abbreviate “EMG” in the title.

Satoshi Maeda (TOYOBO) also commented that the following standard is under development at IEC/TC124 (the proposed country is China):

IEC 63203-403-1 ED1: Wearable electronic devices and technologies - Part 403-1: Test methods of surface electromyography sensors for wearable applications

Attachment: 03_FHE TW Liaison Report_20230406

4 SEMI Staff Report

Akiko Yoshida (SEMI Japan) gave the SEMI Staff Report.

Attachment: 04_Staff Report March 2023

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 the TF members are sharing the tasks to develop one Terminology standard. They are discussing what kind of standards are necessary to be developed in the future while organizing the Terminology.

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” is being finalized. He said that the TF intends to get approval to submit the document for ballot at the next TC Chapter meeting. Also, the TF would like to use CONNECT@SEMI for their efficient communication. Hirofumi Kanno (SEMI Japan) introduced how to use CONNECT@SEMI.

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>
None		



10 Next Meeting and Adjournment

The next meeting is scheduled for Friday, July 14, 2023 15:00-17:00 via OVTCCM and at SEMI Japan Office, Tokyo, Japan. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: [16:07].

Respectfully submitted by:

Akiko Yoshida

Standards & EHS

SEMI Japan

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Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	June 13, 2023
Ryoichi Watanabe (Japan Display Inc.), Co-chair	June 12, 2023
Satoshi Maeda (TOYOBO), Co-chair	June 10, 2023

Table 14 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01_Meeting Reminders	03_FHE TW Liaison Report_20230406
02_230126_FHE Japan Minutes	04_Staff Report March 2023

^{#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.