



FHE Japan TC Chapter

Meeting Summary and Minutes

Friday, July 5, 2024 15:00-16:30 JST

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

TC Chapter Announcements

Next TC Chapter Meeting:

TBD

Table 1 Meeting Attendees

Italics indicate virtual participants.

FHE TC Co-Chairs: Tadahiro Furukawa (Yamagata University), Ryoichi Watanabe (Japan Display)/ Satoshi Maeda (University of Tokyo)

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>AiQ Smart Clothing</i>	<i>Huang</i>	<i>Steve</i>	<i>University of Tokyo</i>	<i>Maeda</i>	<i>Satoshi</i>
Fujikura Kasei	Wakabayashi	Katsutomo	Yamagata University	Furukawa	Tadahiro
Japan Display	Ryoichi	Watanabe	<i>Yuasa System</i>	<i>Hyodo</i>	<i>Kei</i>
Komori Corporation	Ikeda	Hideki	SEMI Japan	Sato	Hiroshi
Toppan	Ito	Manabu	SEMI Japan	Yoshida	Akiko

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
Flexible Hybrid Electronics (FHE) Maintenance Task Force	--	Ryoichi Watanabe (Japan Display) Tadahiro Furukawa (Yamagata University)

Table 3 Committee Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
--	Flexible Hybrid Electronics (FHE) Maintenance Task Force

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 Activities Approved by the GCS between meetings of the TC Chapter

#	Type	SC/TF/WG	Details
7222	SNARF	FHE Assembly Task Force under the FHE NA TC Chapter	New Standard: Guide for Flexible Hybrid Electronics Assembly – <i>Approved by GCS on 03/16/2024</i>
7242	SNARF	FHE Reliability & Testing Task Force under the FHE NA TC Chapter	New Standard: Guide for Reliability of Flexible Hybrid Electronics – <i>Approved by GCS on 05/11/2024</i>

Table 6 Authorized Activities

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

#	Type	SC/TF/WG	Details
--	TFOF	Flexible Hybrid Electronics (FHE) Maintenance Task Force	Newly formed.

#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_20240705_01	SEMI Staff	To setup Connect@SEMI site for the FHE Maintenance Task Force.

Table 12 Previous Meeting 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. →Closed

1 Welcome, Reminders, and Introductions

Tadahiro Furukawa 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_Required Meeting Elements March 2024_J

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 as written.

By / 2nd: By: Ryoichi Watanabe/ Japan Display
Second: Manabu Ito/ Toppan

Discussion: None.

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

Attachment: 02_FHE_JA_Minutes_20240209_R0

3 Liaison Reports

3.1 Japan Regional Standards Committee (JRSC)

Akiko Yoshida (SEMI Japan) reported for the JRSC. At the previous meeting held on April 9, the JRSC recommended that GoToMeeting, which has been used for many years as an official web conferencing system for audio and visual content for the Japan TC Chapter meetings, be replaced by Microsoft Teams due to recent connection problems.

Akiko Yoshida (SEMI Japan) also reported that the Planning Meeting will be held on Friday, August 31 inviting all the TF leaders as well as TC co-chairs to discuss emerging standardization issues related to Digital Twin. Program members other than leadership level will also be invited if they are recommended by the TC co-chairs.

3.2 Global Coordinating Subcommittee (GCS)

Akiko Yoshida (SEMI Japan) reported for the GCS of the global Flexible Hybrid TC that the SNARF, New Standard: Guide for Flexible Hybrid Electronics Assembly proposed by FHE Assembly Task Force under the FHE NA TC Chapter and the SNARF, New Standard: Guide for Reliability of Flexible Hybrid Electronics proposed by FHE Reliability & Testing Task Force under the FHE NA TC Chapter were approved by the GCS on March 16, 2024 and May 15, 2024 respectively. Details of those two SNARFs can be found at:

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

3.3 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 above SNARFS approved by the GCS between TC Chapter meetings.

Attachment: 03_NA FHE Liaison Report Sept2023 v1

3.4 FHE Taiwan TC Chapter

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

- One of the co-leader of the FHE for Wearable Task Force stepped down.
- Doc.#6873A, New Standard: Guide for Salt Mist and Washability Test Flow for Control Module Connector of Electronic Textiles was published as SEMI FH3-0224.
- The FHE for Wearable Task Force will prepare promotional article for their published SEMI Standards.

Attachment: 04_TW FHE TC Chapter Liaison Report_July 2024 v1

4 SEMI Staff Report

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

- New online voting system went live for Cycle 3, 2024. This integrates and streamlines sign-in process with various SEMI/Standards member services, and improves data management for SEMI internal database. It is also expected to bring updated user interface while maintaining functionality that's familiar to voters.
- SEMI Standards Regulations and Procedure Manual were updated in February 2024. They are available at www.semi.org/standards (under Tools for Developing Standards).
- TFs have one year from 02/20/24 to implement use of Connect@SEMI (<https://connect.semi.org>) for TF management and document development depository. Once TFs have implemented use of Connect@SEMI, they shall use it to: maintain the TF member roster up to date, share the working drafts in PDF, and distribute the Draft Document at least one week before ballot submission to SEMI.
- Meeting Required Elements have been updated to include notice on confidential information.

Attachment: 05_Staff Report March 2024 v4.2

5 Ballot Review

None.

6 Task Force Reports

6.1 FHE Terminology Task Force

Tadahiro Furukawa (Yamagata University) reported for the FHE Terminology Task Force that the Task Force met just before the TC Chapter meeting. The first draft of the Terminology standard in English will be ready by the next TC Chapter meeting.

6.1.1 Tactile Texture Characteristics for FHE Task Force

Tadahiro Furukawa (Yamagata University) reported for the 6.2 Tactile Texture Characteristics for FHE Task Force that Doc. #6978A, New Standard: Test Method and Guide for the Tactile Characteristics of Flexible Hybrid Electronics Materials and Products passed procedural review by the ISC A&R Subcommittee, and now it's in the proofing process before being published as SEMI FH4. The Task Force will be disbanded after the document is published and document maintenance work will be transferred to the Maintenance Task Force to be proposed.

7 Old Business

7.1 Project Period Review

None.

7.2 -year Review

None.

8 New Business

8.1 TFOF for FHE Documents Maintenance Activities

Ryoichi Watanabe (Japan Display) proposed to form a new Task Force which will update published FHE Standards as well as study FHE Standards Documents developed by other TC Chapters.

Motion: Approve the TFOF for Flexible Hybrid Electronics (FHE) Maintenance Task Force.

By / 2nd: Ryoichi Watanabe (Japan Display)/ Katsutomo Wakabayashi (Fujikura Kasei)

Discussion: None.

Vote: 4-Y 0-N. Motion passed.

Attachment: 06_TFOF_FHE_maintenance TF

9 Action Item Review

9.1 Open 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. →Closed

9.2 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
FHE_20240705_01	SEMI Staff	To setup Connect@SEMI site for the FHE Maintenance Task Force.

10 Next Meeting and Adjournment

TBD.

Adjournment: [16:00].



Respectfully submitted by:

Akiko Yoshida
Standards & EHS
SEMI Japan

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Email: ayoshida@semi.org

Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	July 16, 2024
Ryoichi Watanabe (Japan Display, Co-chair	July 16, 2024
Satoshi Maeda (TOYOBO), Co-chair	July 16, 2024

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01_ Required Meeting Elements March 2024_J	04_TW FHE TC Chapter Liaison Report_July 2024 v1
02_FHE_JA_Minutes_20240209_R0	05_Staff Report March 2024 v4.2
03_NA FHE Liaison Report Sept2023 v1	06_TFOF_FHE_maintenance TF

#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.