



## FHE Japan TC Chapter

### Meeting Winter and Minutes

Friday, January 31, 2025 3:30pm -5:00pm JST

SEMI Japan and via Official Virtual TC Chapter Meeting (Hybrid)

#### TC Chapter Announcements

*Next TC Chapter Meeting:*

Friday May 30, 2025 3:00pm- 5:00pm JST at SEMI Japan, Tokyo, Japan and via OVTCCM

#### 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:** Keiko Kamejinaka

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Yamagata University	Furukawa	Tadahiro	Mitsubishi Chemical Corporation	Yamane	Noriyasu
<i>University of Tokyo</i>	<i>Maeda</i>	<i>Satoshi</i>	<i>SATOSEN</i>	<i>Shimizu</i>	<i>Ryota</i>
Fujikura Kasei	Wakabayashi	Katsutomo	Toppan	Ito	Manabu
Innolux	Nakagawa	Takanobu	SEMI Japan	Kanno	Hirofumi
Japan Display	Watanabe	Ryoichi	<i>SEMI Japan</i>	<i>Hirabara</i>	<i>Takeaki</i>
<i>Kobe University</i>	<i>Inoue</i>	<i>Mari</i>	SEMI Japan	Yoshida	Akiko
Komori Corporation	Ikeda	Hideki	SEMI Japan	Kamejinaka	Keiko

#### 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>
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
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
6906	Cycle 3 2025	FHE Terminology TF	New Standard, Terminology for Flexible Hybrid Electronics (FHE)

**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_20250131_01	SEMI Staff	To make a community page for FHE Maintenance Task Force on Connect@SEMI again as it had disappeared.
FHE_20250131_02	SEMI Staff	To check the status of GCS voting with SEMI Taiwan Staff regarding proposed as Local Area Sensing Network for FHE System Task Force .
FHE_20250131_03	FHE Terminology TF Leader	To submit Doc.# 6906, New Standard, Terminology for Flexible Hybrid Electronics (FHE) for Cycle 3, 2025 to SEMI Staff

**Table 12 Previous Meeting Action Items**

Item #	Assigned to	Details
FHE_20241015_01	SEMI Staff	To forward the result of TC review of Type 2 editorial changes of SEMI FH4 to the ISC A&R SC for procedural review. →Closed



## 1 Welcome, Reminders, and Introductions

Ryoichi Watanabe called the meeting to order at 3:30pm. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

**Attachment:** 1\_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 as written

**By / 2<sup>nd</sup>:** By: Tadahiro Furukawa / Yamagata University  
Second: Satoshi Maeda / University of Tokyo

**Discussion:** None.

**Vote:** 9-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority

**Attachment:** 2\_FHE\_JA\_Minutes\_20241015\_R1

## 3 Technical Committee Award

Mari Inoue was awarded for her role in developing the document and complete to publish as FH4.

## 4 Liaison Reports

### 4.1 FHE Taiwan TC Chapter

➤ Keiko Kamejinaka (SEMI Japan) reported for the FHE Taiwan TC Chapter. Of note:

A new TFOF “Local Aera Sensing Network for FHE System Task Force” was requested for approval by GCS on January 2.

➤ The next meeting is scheduled for Monday, February 10, 2025, 2:00pm - 4:00pm (CST).

**Attachment:** 3\_Liaison Report\_TW FHE TC Chapter\_Oct 4 v1

### 4.2 FHE NA TC Chapter

Keiko Kamejinaka (SEMI Japan) reported for the FHE NA TC Chapter. Of note:

➤ Ballot submission of Doc.#7193, New Standard “Guide for Substrate and Interconnect Design of Flexible Hybrid Electronics” from FHE Design TF was authorized by GCS on January 27, 2025 for Cycle 2, 2025.

**Attachment:** 4\_Liaison Report\_NA FHE TC Chapter\_Jan 2025 v1

## 5 SEMI Staff Report

Keiko Kamejinaka (SEMI Japan) gave the SEMI Staff Report. Of note:

➤ SEMICON Japan had successfully ended. The number of visitors exceeded the target of 100,000.

➤ By Feb 2025, all Standards Task Forces must use Connect@SEMI to host documents that are currently under development, and each Standards Task Force will have its own Community Page on Connect@SEMI.

➤ Procedure Manuals have been updated to clarify the discharge and Dormant of a TF.

**Attachment:** 5\_Staff Report January 2025

## **6 Ballot Review**

None.

## **7 Task Force Reports**

### *7.1 FHE Terminology Task Force*

Tadahiro Furukawa (Yamagata University) reported that the TF met right before the TC meeting and almost completed drafting Doc.#6906, New Standard, Terminology for Flexible Hybrid Electronics (FHE). The TF would like to submit the document for Cycle 3, 2025. Please refer to 9.1 for details.

### *7.2 Tactile Texture Characteristics for FHE Task Force*

Mari Inoue (Kobe University) reported that the TF completed all the works as editorial changes made to SEMI FH4 was approved by the TC Chapter and subsequent procedural review by the ISC A&R SC. The TF is now waiting for its publication. Please refer to 9.2 as for further activities.

### *7.3 FHE Maintenance Task Force*

Tadahiro Furukawa (Yamagata University) reported that the next TF meeting is scheduled for March 4, at 1:00 pm.

## **8 Old Business**

### *8.1 Project Period Review*

None

### *8.2 5-year Review*

None

## **9 New Business**

### *9.1 New Ballot for Cycle 3 from FHE Terminology Task Force*

Motion: Authorize Doc.#6906 for Letter Ballot in Cycle 3 from FHE Terminology Task Force

By: Tadahiro Furukawa / Yamagata University

Second: Manabu Ito / TOPPAN Inc.

Discussion: None

Result: 9-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority

### *9.2 Dormant Status for Tactile Texture Characteristics for FHE TF*

Motion: Approve to make the Tactile Texture Characteristics for FHE TF “dormant”.

By: Mari Inoue / Kobe University

Second: Satoshi Maeda / University of Tokyo

Discussion: None.

Result: 9-Y 0-N Voting Result: Pass - 100.00%. Voting Rule: Majority

## 10 Action Item Review

### 10.1 Open Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
FHE_20241015_01	SEMI Staff	To forward the result of TC review of Type 2 editorial changes of SEMI FH4 to the ISC A&R SC for procedural review. →Closed

### 10.2 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
FHE_20250131_01	SEMI Staff	To make a community page for FHE Maintenance Task Force on Connect@SEMI again as it had disappeared.
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FHE_20250131_03	FHE Terminology TF	To submit Doc.# 6906, New Standard, Terminology for Flexible Hybrid Electronics (FHE) for Cycle 3, 2025 to SEMI Staff

## 11 Next Meeting and Adjournment

The next meeting is scheduled for Friday, May 30, 2025 3:00- 5:00 pm (JST) at SEMI Japan, Tokyo, Japan and via OVTCCM

Adjournment: [17:00].

Respectfully submitted by:

Keiko Kamejinaka, SEMI Japan

Email: [kkamejinaka@semi.org](mailto:kkamejinaka@semi.org)

Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	February 10, 2025
Ryoichi Watanabe (Japan Display), Co-chair	February 10, 2025
Satoshi Maeda (University of Tokyo), Co-chair	February 10,2025

**Table 13 Index of Available Attachments<sup>#1</sup>**

<i>Title</i>	<i>Title</i>
1_Required Meeting Elements March 2024_J	2_FHE_JA_Minutes_20241015_R1
3_Liaison Report_TW FHE TC Chapter_Oct 4 v1	4_Liaison Report_NA FHE TC Chapter_Jan 2025 v1
5_Staff Report January 2025	

#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](http://www.semi.org). For additional information or to obtain individual attachments, please contact Keiko Kamejinaka at the contact information above.