



FHE Taiwan TC Chapter

Virtual Meeting Summary and Minutes

Wednesday, June 29, 2022, 14:00 – 16:00

OVTCCM

TC Chapter Announcements

Next TC Chapter Meeting

TBD

Table 1 Meeting Attendees

Italics indicate virtual participants

Chair: *Steve Huang (AIQ)*

SEMI Staff: *Cher Wu, Ada Tai*

Company	Last	First	Company	Last	First
<i>Applied Materials</i>	<i>Hsu</i>	<i>Chen-Chou</i>	<i>General Silicones</i>	<i>Fan</i>	<i>Michelle</i>
<i>ASE</i>	<i>Chen</i>	<i>MING-HUNG</i>	<i>ITRI</i>	<i>Pong</i>	<i>Bao-Jen</i>
<i>Brewer Science</i>	<i>Lee</i>	<i>Alvin</i>	<i>ITRI</i>	<i>Hong</i>	<i>Shao-Tang</i>
<i>Flagship International Ltd</i>	<i>Tuan</i>	<i>Andy</i>	<i>ITRI</i>	<i>Li</i>	<i>Doug</i>

Table 2 Leadership Changes

WG/TF/SC/TC Name	Previous Leader	New Leader
None		

Table 3 Committee Structure Changes

Previous WG/TF/SC Name	New WG/TF/SC Name or Status Change
None	

Table 4 Ballot Results

Document #	Document Title	Committee Action
6690C	New Standard: Test Method of Line Impedance for Flexible Hybrid Electronics	Passed
6691C	New Standard: Test Method of Sheet Resistance for Flexible Hybrid Electronics	Passed
6873	New Standard: Guide for Salt Mist and Washability Test Flow for Control Module Connector of Electronic textiles	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
1	Chen-Chou Hsu, Applied Materials	-To collect the Display of foldable test material to refer if it can be applied to FHE. _Open

Table 12 Previous Meeting Action Items

Item #	Assigned to	Details
None		



1. Welcome, Reminders, and Introductions

Committee Co-Chair Steve Huang (AiQ) called the meeting to order at 14:00 and gave a brief opening remark. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance are reviewed. Attendees introduced themselves.

Attachment: Required Element Nov 2020

2. Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve previous meeting minutes

By / 2nd: Alvin Lee (Brewer Science) / Shao-Tang Hung (ITRI)

Discussion: None

Vote: 7-0 in favor. Motion passed

Attachment: FHE TC Meeting Minutes 20220323 v1

3. Liaison Reports

3.1 Flexible Hybrid Electronics (FHE) Japan TC Chapter

Cher Wu (SEMI) reported for the TC Chapter. Of note:

- **Meeting Information**

Last meeting

Thursday, June 9, 2022, OVTCCM/ SEMI Japan office, Tokyo (Hybrid)

Next meeting

Thursday, October 13, 2022, OVTCCM/ SEMI Japan office, Tokyo (Hybrid)

- **Leadership Changes**

<i>TF/SC/CFG/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
Tactile Texture Characteristics for FHE TF	-	Mari Inoue – Kobe University Satoshi Maeda – TOYOBO Tadahiro Furukawa – Yamagata University

- **Committee Structure Changes**

Previous TF/SC/CFG Name	New TF/SC/CFG Name or Status Change
-	Tactile Texture Characteristics for FHE TF

- **Committee Highlights**

- **New Business:**

Tactile Texture Characteristics for FHE TF

Introduction for the plan of new SNARF.

*SNARF will be reviewed to all TC members (2 weeks review).

- **Authorized Activities**

Doc #	Type	SC/TF/CFG	Document Title/Details
--	TFOF	Tactile Texture Characteristics for FHE TF	Tactile Texture Characteristics for FHE Task Force [New]

- **Task Force Highlight**

FHE Terminology TF

TF Meeting was held on Thursday, June 9, 2022 .

TF members will continue to discuss about the definition of FHE.



Attachment: 20220609 FHE-Japan LiaisonReportV1.0

4. SEMI Staff Report

Cher Wu reported about SEMICON event and ballot cycle 2022.

Attachment: FHE TC Staff Report 20220629

5. Ballot Review

TC Chapter adjudication on ballots reviewed 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 number for each balloted document is provided under each ballot review section below.

5.1 Document #6690C, New Standard: Test Method of Line Impedance for Flexible Hybrid Electronics

This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review. See attachment for details.

Motion: To approve editorial change(s).

By / 2nd: Alvin Lee (Brewer Science)/ Andy T. F. Tuan (Flagship International)

Discussion: None

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

Motion: This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)

By / 2nd: By: MING-HUNG CHEN (ASE Group) / Bao-Jen Pong (ITRI)

Discussion: None

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

Motion: This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: MING-HUNG CHEN (ASE Group) / Bao-Jen Pong (ITRI)

Discussion: None

Vote: 12-Y 0-N. Motion passed

Attachment: 6690C Procedural Review

5.2 Document #6691C, New Standard: Test Method of Sheet Resistance for Flexible Hybrid Electronics

This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review. See attachment for details.

Motion: To approve editorial change(s).

By / 2nd: Chung-I Li (ITRI)/ Alvin Lee (Brewer Science)

Discussion: None

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

Motion: This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)



By / 2nd: MING-HUNG CHEN (ASE Group) / Chen-Chou Hsu (Applied Materials Taiwan)

Discussion: None

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

Motion: This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: Alvin Lee (Brewer Science)/ MING-HUNG CHEN (ASE Group)

Discussion: None

Vote: 7-Y 0-N. Motion passed

Attachment: 6691C Procedural Review

5.2 Document #6873, New Standard: Guide for Salt Mist and Washability Test Flow for Control Module Connector of Electronic textiles

This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review. See attachment for details.

Motion: To approve editorial change(s).

By / 2nd: Alvin Lee (Brewer Science) / MING-HUNG CHEN (ASE Group)

Discussion: None

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

Motion: This is not a Safety Document, when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)

By / 2nd: MING-HUNG CHEN(ASE Group) / Chen-Chou Hsu / Applied Materials Taiwan

Discussion: None

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

Motion: This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: Alvin Lee (Brewer Science) / Chen-Chou Hsu / Applied Materials Taiwan

Discussion: None

Vote: 7-Y 0-N. Motion passed

Attachment: 6873 Procedural Review

6. Task Force Reports

FHE System for Wearable Task Force

Shao-Tang Hong reported the 6690C/ 6691C/6873 Ballot Review Status.

7. Old Business

None



8. New Business

- To collect the Display of foldable test material to refer if it can be applied to FHE. _Open
- Welcome Taiwan TC members to participate FHE Global TC Meeting._Steve Huang

9. Next Meeting and Adjournment

The next meeting is TBD later at SEMI Taiwan Office in Hsinchu and Virtual Meeting.
 All TC members took a group photo.

10. Adjournment was at 15:22.

Respectfully submitted by:

Cher Wu
 Senior Executive Consultant
 SEMI Taiwan
 Phone: +886-933-976766
 Email: cherwu@semi.org

Minutes tentatively approved by:

Co-Chair	Date approved
Steve Huang / AiQ	2022/7/11

Table 13 Index of Available Attachments#1

<i>Title</i>	<i>Title</i>
01 <u>Required Element Nov 2020</u>	05 <u>6690C Procedural Review</u>
02. <u>FHE TC Meeting Minutes 20220323_v1</u>	06 <u>6691C Procedural Review</u>
03. <u>20220609_FHE-Japan_LiaisonReportV1.0</u>	07 <u>6873 Procedural Review</u>
04. <u>FHE TC Staff Report 20220629</u>	

#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.