FHE Taiwan TC Chapter

Virtual Meeting Summary and Minutes

Wednesday, March 23, 2022, 14:00 – 16:15

OVTCCM

TC Chapter Announcements

Next TC Chapter Meeting

Jun. 29, 2022 (Wed), 14:00 – 16:00

SEMI Taiwan Office, Hsinchu, Taiwan (Hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants

Chair: *Steve Huang (AIQ)*

SEMI Staff: *Cher Wu, Ada Tai*

Company	*Last*	*First*	*Company*	*Last*	*First*
AiQ Smart Clothing	*Yang*	*Tong*	*ITRI*	*Sun*	*Eric*
Applied Materials	*Hsu*	*Chen-Chou*	*ITRI*	*Pong*	*Bao-Jen*
Brewer Science	*Lee*	*Alvin*	*ITRI*	*Hong*	*Shao-Tang*
CymMetrik Enterprise	*Kuo*	*Simon*	*ITRI*	*Li*	*Doug*
General Silicones	*Mukherjee*	*Anupam*	*WiseChip*	*Chen*	*Telu*

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*
6690B	New Standard: Test Method of Line Impedance for Flexible Hybrid Electronics	**Failed, Back to TF rework**
6691B	New Standard: Test Method of Sheet Resistance for Flexible Hybrid Electronics	**Failed, Back to TF rework**

#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/TFOFSNARF

Table 7 Authorized Ballots

#	When	TF	Details
#6690C	2022 cycle 4/5/6	FHE System for Wearable TF	New Standard: Test Method of Line Impedance for Flexible Hybrid Electronics
#6691C	2022 cycle 4/5/6	FHE System for Wearable TF	New Standard: Test Method of Sheet Resistance for Flexible Hybrid Electronics
#6873	2022 cycle 4	FHE System for Wearable TF	New Standards: Guide for Salt Mist and Washability Test Flow for Control Module Connector of Electronic textiles

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
None		

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) / Doug Lee (ITRI)

Discussion: None

Vote: 8-0 in favor. Motion passed

Attachment: FHE TC Meeting Minutes 20211117_v2

3. Liaison Reports

3.1 Flexible Hybrid Electronics（FHE） Japan TC Chapter

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

Last meeting
Friday, January 14, 2022, OVTCCM/ SEMI Japan office, Tokyo (Hybrid)
Next meeting
Thursday, June 9, 2022, OVTCCM/ SEMI Japan office, Tokyo (Hybrid)

Committee Highlights:

New Business:
-Introduction of the plan of new TFOF and SNARF.
Action: Prepare TFOF form and SNARF by the next TC chapter meeting.
(Approval of TFOF is scheduled in the next TC chapter meeting.)

Authorized Activities：

Doc #	Type	SC/TF/CFG	Document Title/Details
6906	SNARF	FHE Terminology TF	SNARF for Terminology for Flexible Hybrid Electronics (FHE)

Task Force Highlight
TF Meeting was held on Friday, June 9, 2022
TF members discussed about SNARF of FHE.
TF members recognized the definition of FHE is the most important word.

Attachment: 20220114_FHE-Japan_LiaisonReportV1.0

4. SEMI Staff Report

Cher Wu reported about SEMICON event and ballot cycle 2022.

Attachment: FHE TC Staff Report 20220323

5. Ballot Review

Doc. 6690B -New Standard: Test Method of Line Impedance for Flexible Hybrid Electronics

Motion: This Document failed TC Chapter review and returned to TF rework.
By / 2nd: Bao Jen Pong (ITRI)/ Doug Lee (ITRI)
Discussion: None.
Vote: 10-0 in favor. Motion passed

Doc. 6691B - New Standard: Test Method of Sheet Resistance for Flexible Hybrid Electronics

Motion: This Document failed TC Chapter review and returned to TF rework.
By / 2nd: Bao Jen Pong (ITRI)/ Doug Lee (ITRI)
Discussion: None.
Vote: 10-0 in favor. Motion passed

6. Task Force Reports

Eric Sun reported the 6690B/ 6691B/6873 Status.

To prepare the 6690C/6691C/6873 ballot submission for Cycle 4, 2022

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

#6691c New Standard: Test Method of Sheet Resistance for Flexible Hybrid Electronics

#6873 New Standards: Guide for Salt Mist and Washability Test Flow for Control Module Connector of Electronic textiles

7. Old Business

None

8. New Business

Authorize the Document #6690C New Standard: Test Method of Line Impedance for Flexible Hybrid Electronics for Letter Ballot Cycle.

Motion: Authorize the Document #6690C for Letter Ballot Cycle 4-6,2022

By: Alvin Lee / Brewer Science

Second: Shao-Tang Hung/ ITRI

Discussion: None

Result: Result: 10-0 in favor. Motion passed

Authorize the Document #6691C New Standard: Test Method of Sheet Resistance for Flexible Hybrid Electronics for Letter Ballot Cycle.

Motion: Authorize the Document 6691C for Letter Ballot Cycle 4-6,2022

By: Alvin Lee / Brewer Science

Second: Shao-Tang Hung/ ITRI

Discussion: None

Result: Result: 10-0 in favor. Motion passed

Authorize the Document # 6873 New Standard: Guide for Salt Mist And Washability Test Flow For Control Module Connector Of Wearables for Letter Ballot Cycle.

Motion: Authorize the Document 6873 for Letter Ballot Cycle 4, 2022

By: Bao-Jen Pong / ITRI

Second: Shao-Tang Hung/ ITRI

Discussion: None

Result: Result: 10-0 in favor. Motion passed

9. Next Meeting and Adjournment

The next meeting is scheduled at 2pm on Jun. 29 2022 (Wed) in SEMI Taiwan Office in Hsinchu and Virtual Meeting.

All TC members took a group photo.

10. Adjournment was at 16:15.

Respectfully submitted by:

Cher Wu

Senior Executive Consultant

SEMI Taiwan

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Email: cherwu@semi.org

Minutes tentatively approved by:

Co-Chair	Date approved
Steve Huang / AiQ	2022/4/1

Table 13 Index of Available Attachments[#1]

Title	*Title*
01 Required Element Nov 2020	
02. FHE TC Meeting Minutes 20211117_v2	
03. 20220114_FHE-Japan_LiaisonReportV1.0	
04. FHE TC Staff Report 20220323	

#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.