



PV Taiwan TC Chapter

Meeting Summary and Minutes

Taiwan Spring Standards Meeting 2019

Thursday, April 18, 2019, 14:00 – 15:00

Meeting Room 7, Yongguang Chemical Second Factory

No. 12, Industrial Third Road, Guanyin Industrial Zone, Guanyin District, Taoyuan City

TC Chapter Announcements

Next TC Chapter Meeting

October(TBD), 2019

Table 1 Meeting Attendees

Co-Chairs: Ray Sun (UL)

SEMI Staff: Dean Chang / Tiffany Huang

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
TeraSolar	Chen	Joeng-Shein	ITRI	Long	Mickey
ITRI	Wu	T.C.	ITRI	Cheng	H.Y.
King Design	Shih	Jason			

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>
PV Package Performance Task Force: disband	

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

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

Table 6 Authorized Activities

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

#	Type	SC/TF/WG	Details
TBD	SNARF	Organic and Dye Sensitized Solar Cell and Perovskite solar cell Task Force (OPV/DSSC/PSC TF)	New Standard :Specification of reference device for indoor lighting simulator
TBD	SNARF	Organic and Dye Sensitized Solar Cell and Perovskite solar cell Task Force (OPV/DSSC/PSC TF)	New Standard :Test Method for Durability of Flexible emerging PV
TBD	SNARF	Organic and Dye Sensitized Solar Cell and Perovskite solar cell Task Force (OPV/DSSC/PSC TF)	Reapproval of SEMI PV56-1214 Test Method for Performance Criteria of Photovoltaic (PV) Cell and Module Package
TBD	SNARF	Organic and Dye Sensitized Solar Cell and Perovskite solar cell Task Force (OPV/DSSC/PSC TF)	Reapproval of SEMI PV57-1214 Test Method for Current-Voltage (I-V) Performance Measurement of Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC)

#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
6297	Cycle 5-19	Organic and Dye Sensitized Solar Cell and Perovskite solar cell Task Force (OPV/DSSC/PSC TF)	NEW STANDARD: TEST METHOD FOR CURRENT-VOLTAGE (I-V) PERFORMANCE MEASUREMENT OF PEROVSKITE SOLAR CELL (PSC), Part 1: Standard Testing Condition (STC).

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	T.C.Wu	PV TC meeting will be held twice a year.
2	Yu Tai Li	PV Reliability Test Method Task Force will choose the new leader.

Table 12 Previous Meeting Action Items

Item #	Assigned to	Details
1	Yu Tai Li	Will be take charge new SNARF for “New Standard: Test method of electrochemical corrosion for PV module”...Ongoing.

1 Welcome, Reminders, and Introductions

Committee Co-Chair Ray Sun (UL) called the meeting to order at 14:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: [Meeting Reminder 2019](#)

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve previous meeting minute

By / 2nd: T. C. Wu (ITRI) / Joeng-Shein Chen(TeraSolar)

Discussion: After review, all TC members agreed to approve it

Vote: 5-0 in favor. Motion passed

Attachment: [20181219_PV Meeting Minutes](#)

3 Liaison Reports

3.1 PV Japan TC Chapter

Dean Chang (SEMI TW) reported for the PV Japan TC Chapter. Of note:

Action Item:



- Japan PV Materials Task Force: #6286: Line Items Revision to SEMI PV79-0817 Test Method for Exposure Durability of PV Cells to Acetic Acid
- Next TC Meeting will be held on April 19, 2019 at SEMI Japan Office, Tokyo, Japan

Attachment: 190401 LiaisonReport JA PVPVM v1.0

3.2 PV China TC Chapter

Dean Chang (SEMI TW) reported for the PV China TC Chapter. Of note:

Action Item:

- Ballot results:
 - 6403&5842C&6404 passed as balloted.
 - 5661C&6070C&5983A&6193 Failed and return to TF.
- Next TC Meeting will be held on April 26, 2019 at Shanghai

Attachment: China PV&PVM Committee Chapter Liaison Report November 2018

3.3 PV Materials NA TC Chapter

Dean Chang (SEMI TW) reported for the PV Japan TC Chapter. Of note:

Action Item:

- Next TC Meeting will be held on July 10, 2019 at San Francisco
- Ballot results: Doc(6367&6368&6369) passed as balloted.

Attachment: PVMaterials NA TC Chapter Liaison Report July 2018

3.4 PV Materials EU TC Chapter

Dean Chang (SEMI TW) reported for the PV Japan TC Chapter. Of note:

Action Item:

- Next TC Meeting will be held on May 21, 2019 at Berlin, Germany

Attachment: EU PV Materials Liaison Report March 2019 v1

3.5 SEMI Staff Report

Dean Chang (SEMI TW) gave the SEMI Staff Report. Of note:

- Report the SEMI Global 2019 Calendar of Events.
- Report the 2019 Critical Dates for SEMI Standards Ballots.

http://www.semi.org/en/Standards/P_000788

Attachment: PV TC Staff Report_20190418

4 Ballot Review

NOTE 1: 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.

None

5 Task Force Reports

5.1 OPV, DSSC&PSC TF

- Will be ballot in Cycle 5-19:
 - #6297 SNARF for New Standard: New Standard: Test Method for Current-Voltage (I-V) Performance Measurement of Perovskite Solar Cell (PSC), Part 1: Standard Testing Condition (STC)

Motion: Approve to submit Doc 6297 in Cycle 5-19 vote.

By / 2nd: T. C. Wu (ITRI) / Jason Shih (King Design)

Discussion: After review, all TC members agreed to approve it

Vote: 5-0 in favor. Motion passed

- Submit two SNARFs to HQ and request for document number.
 - SNARF for New Standards: Test Method for Durability of Flexible emerging PV

Motion: Approve to submit this SNARFs to HQ and request for document number.

By / 2nd: Joeng-Shein Chen(TeraSolar) / Jason Shih (King Design)

Discussion: After review, all TC members agreed to approve it

Vote: 5-0 in favor. Motion passed

- SNARF for New Standards: Specification of reference device for indoor lighting simulator

Motion: Approve to submit this SNARFs to HQ and request for document number.

By / 2nd: Joeng-Shein Chen(TeraSolar) / Jason Shih (King Design)

Discussion: After review, all TC members agreed to approve it

Vote: 5-0 in favor. Motion passed

5.2 PV Reliability Test TF

- Two Weeks Reviews : SNARF “New Standard: Accelerated test method of environment potential induced degradation (PID) for encapsulation materials of PV modules”
 - Review schedule from 2019/1/17 to 2019/1/31
 - Return to TF for discussion the comments from global members

Attachment: [SNARF-two weeks reviews](#)

5.2 PV Package Performance Task Force

- Since the PV Package Performance Task Force has no any activity, T.C. Wu propose to disband this TF.

Motion: Approve to disband this PV Package Performance Task Force

By / 2nd: T. C. Wu (ITRI) / Joeng-Shein Chen(TeraSolar)

Discussion: After discussion, all TC members agreed to approve it

Vote: 5-0 in favor. Motion passed



6 Old Business

6.1 Yu Tai Li will take charge new SNARF for “New Standard: Test method of electrochemical corrosion for PV module”.

7 New Business

7.1. Co-chair decided that PV TC meeting will be held twice a year.

7.2 PV Reliability Test Method Task Force will choose the new leader.

8 Next Meeting and Adjournment

The next meeting is scheduled in, October (tentative) 2019 in Hsinchu. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment was at 13:00.

Respectfully submitted by:

Dean Chang

Senior Executive Consultant

SEMI Taiwan

Phone: 886-3-560-1777 #510

Email: dchang@semi.org

Minutes tentatively approved by:

T.C. Wu (ITRI), Co-chair	2019.10.4

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
1_ Meeting Reminder_2019	3.3_ PVMaterials NA TC Chapter Liaison Report July 2018
2_20181219_PV Meeting Minutes	3.4_EU PV Materials Liaison Report March 2019 v1
3.1_190401_LiaisonReport_JA_PVPVM_v1.0	3.5_ PV TC Staff Report_20190418
3.2_ China PV&PVM Committee Chapter Liaison Report November 2018	5.2_ SNARF-two weeks reviews

#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.