



Photovoltaic Taiwan TC Chapter

Meeting Summary and Minutes

< Taiwan Spring Standards Meeting 2021 >

Thursday, February 25, 2021, 10:00 – 12:00

78th Building, No. 195, Section 4, Zhong xing Road, Zhu dong Township., Hsinchu, Taiwan

TC Chapter Announcements

Next TC Chapter Meeting

May 6, 2021, 10:00-12:00

Due the Covid-19 Postpone to Sep. 27, 2021, 10:00-12:00

Room 317,78th Building, No. 195, Section 4, Zhongxing Road, Zhudong Township., Hsinchu, Taiwan

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: T.C. Wu/ ITRI

SEMI Staff: Cher Wu / Ada Tai

<i>Company</i>	<i>First</i>	<i>Last</i>	<i>Company</i>	<i>First</i>	<i>Last</i>
Everlight Chemical	Cheng Wei	Hsu	King Desing Industrial	Jason	Shih
Everlight Chemical	Ben	Jan	PV Guider	Jay	Lin
<i>Everlight Chemical</i>	<i>DER-GUN</i>	<i>Chou</i>	UL Taiwan	Ray	Sung
ITRI	Yean-San	Long			

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/wstdsba1.nsf/TFOFSNARF>

Table 7 Authorized Ballots

#	When	TF	Details
#6705	Cycle 4, 2021	PV Reliability Test Method TF	Reapproval of SEMI PV72-0316-EN Test Method of to Evaluate an Accelerated Thermo Humidity Resistance of PV Encapsulation
#6731	Cycle 4, 2021	OPV, DSSC and PSC TF	Revision of SEMI PV69 - Test Method for Spectrum Response (SR) Measurement of Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC)and Perovskite Solar Cell(PSC)
#6730	Cycle 4, 2021	OPV, DSSC and PSC TF	Revision of SEMI PV57 - Test Method for Current-Voltage (I-V) Performance Measurement of Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) and Perovskite Solar Cell(PSC)
#6732	Cycle 4, 2021	OPV, DSSC and PSC TF	Revision of SEMI PV76 - Test Method for Durability of Low Light Intensity Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) and Perovskite Solar Cell(PSC)
#6733	Cycle 4, 2021	OPV, DSSC and PSC TF	Revision of SEMI PV80 - Specification of Indoor Lighting Simulator Requirements for Emerging Photovoltaic and Perovskite Solar Cell(PSC)
#6734	Cycle 4	OPV, DSSC and PSC TF	Revision of SEMI PV89 - Test Method of Current-Voltage (I-V) Measurement in Indoor Lighting for Dye-Sensitized Solar Cell and Organic Photovoltaic and Perovskite Solar Cell(PSC)

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

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
1	All TF leaders	Keep finding new topics for further development
2	SEMI staff to provide related information	<ul style="list-style-type: none"> New generation solar cell measurement milestone: suggest to submit marketing article for next Quarter of SEMI Standards Watch thru SEMI Global website to promote Like to learn more information about Taiwan Compound Semiconductor equipment SIG & China Compound Semiconductor Standards TC & Materials TF
3	Dr. TC Wu, co-chair	<ul style="list-style-type: none"> Study more about information security issue and demand from Tai-Power.

Table 12 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
1	Anderson Hsu (ITRI)	Assist PV TC & SEMI to find out government funding support for international standards activities. <u>CLOSED</u> . Due to time concern for 2021, will plan for 2022.

1 Welcome, Reminders, and Introductions

Committee Co-Chair T.C. Wu (ITRI) called the meeting to order at 10:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: [Meeting Reminder 2021](#)

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve previous meeting minutes
By / 2nd: Jason Shih (King Design) / Ray Sung (UL)
Discussion: None
Vote: 6-0 in favor. Motion passed

Attachment: [20201225 Photovoltaic Taiwan TC Chapter v2](#)

3 Liaison Reports

3.1 Photovoltaic and PV Materials China TC Chapter

No update

3.2 Photovoltaic (PV) – Materials NA TC Chapter

No update

3.3 Photovoltaic (PV) – Materials Europe TC Chapter

No update

3.4 SEMI Staff Report



Cher Wu (SEMI Taiwan) gave the SEMI Staff Report. Of note:

- 2021 Critical Dates for SEMI Standards Ballots
- Please see: https://www.semi.org/en/standards/Critical_Dates

Attachment: PV TC Staff Report 20210225

4 Ballot Review

4.1 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.

Doc #	Document Title	TC Chapter Action
None		

5 Task Force Reports

5.1 OPV, DSSC&PSC TF

#	Type	SC/TF/WG	Details
TBD	SNARF	OPV, DSSC and PSC TF	Over 5 year review and Renamed. SEMI PV69 - Test Method for Spectrum Response (SR) Measurement of Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) Renamed to SEMI PV69 - Test Method for Spectrum Response (SR) Measurement of Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC)and Perovskite Solar Cell(PSC)
TBD	SNARF	OPV, DSSC and PSC TF	SEMI PV57 - Test Method for Current-Voltage (I-V) Performance Measurement of Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) Renamed to SEMI PV57 - Test Method for Current-Voltage (I-V) Performance Measurement of Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) and Perovskite Solar Cell(PSC)
TBD	SNARF	OPV, DSSC and PSC TF	SEMI PV76 - Test Method for Durability of Low Light Intensity Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) Renamed to: SEMI PV76 - Test Method for Durability of Low Light Intensity Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) and Perovskite Solar Cell(PSC)
TBD	SNARF	OPV, DSSC and PSC TF	SEMI PV80 - Specification of Indoor Lighting Simulator Requirements for Emerging Photovoltaic Renamed to SEMI PV80 - Specification of Indoor Lighting Simulator Requirements for Emerging Photovoltaic and Perovskite Solar Cell(PSC)
TBD	SNARF	OPV, DSSC and PSC TF	SEMI PV89 - Test Method of Current-Voltage (I-V) Measurement in Indoor Lighting for Dye-Sensitized Solar Cell and Organic Photovoltaic Renamed to SEMI PV89 - Test Method of Current-Voltage (I-V) Measurement in Indoor Lighting for Dye-Sensitized Solar Cell and Organic Photovoltaic and Perovskite Solar Cell(PSC)

The TC Chapter reviewed these above 5 “ 5-Year” standards, TF proposed to re-name and process a new SNARF.



Motion: Agree to add [and Perovskite Solar Cell (PSC)] into headline of PV69, PV57, PV76, PV80, PV89 standards title, and process new SNARF for above 5 standards.

By / 2nd: Jay Lin (PV Guider)/ Jason Shih (King Design)

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

Vote: 6-0 in favor. Motion passed

Action Item: None

Attachment: None

Reapproval of SEMI PV72-0316-EN Test Method of to Evaluate an Accelerated Thermo Humidity Resistance of PV Encapsulation for one year extention.

Motion: Agree to SEMI PV 72 for reapproval one year extention.

By / 2nd: Jay Lin (PV Guider)/ Jason Shih (King Design)

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

Vote: 6-0 in favor. Motion passed

TC assigned SEMI staff to get document numbers for 5 new SNARFs to add [and Perovskite Solar Cell(PSC)] into headline of PV69, PV57, PV76, PV80, PV89 standards title, and process new SNARF for above 5 standards.

Motion: Agree to get document number for 5 SNARFs.

By / 2nd: Ray Sung (UL)/ Jason Shih (King Design)

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

Vote: 6-0 in favor. Motion passed

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To approve submit 5 SNARFs of PV69, PV57, PV76, PV80, PV89 & PV 72 ballot to Cycle 4.

Motion: Approve above 5 SNARFs & PV72 submit to Ballot Cycle 4.

By / 2nd: Ben Jan (Everlight Chemical)/ Ray Sung (UL)

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

Vote: 6-0 in favor. Motion passed

5.2 PV Reliability Test TF

None

6 Old Business

Item #	Assigned to	Details
1	Anderson Hsu (ITRI)	Assist PV TC & SEMI to find out government funding support for international standards activities. CLOSED . SEMI Staff have discussed this with Dr. Hsu and Dr. Long, due to time concern for 2021, will plan for 2022.

7 New Business

Item #	Assigned to	Details
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1	All TF leaders	Keep finding new topics for further development
2	SEMI staff to provide related information	<ul style="list-style-type: none"> ● New generation solar cell measurement milestone: suggest to submit marketing article for next Quarter of SEMI Standards Watch thru SEMI Global website to promote ● Like to learn more information about Taiwan Compound Semiconductor equipment SIG & China Compound Semiconductor Standards TC & Materials TF
3	Dr. TC Wu, co-chair	Study more about information security issue and demand from Tai-Power.

8 Next Meeting and Adjournment

The next meeting is scheduled May 6, 2021 @10:00-12:00. See <http://www.semi.org/standards-events> for the current list of events.

(Due the Covid-19, Postpone to Oct. 1, 2021 14:00-16:00)

Adjournment: 11:30.

Respectfully submitted by:

Cher Wu

Senior Executive Consultant

SEMI Taiwan

Phone: 886-3-560-1777 #510/ 0933-976-766

Email: cherwu@semi.org

Minutes tentatively approved by:

Co-chair	Date approved
T.C. Wu (ITRI)	Mar. 4, 2021

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
1_Meeting Reminder_2021	5_EU PV Materials Liaison Report Dec 2020 v1
2_20201225 Photovoltaic Taiwan TC Chapter v2	6_PV TC Staff Report_20201225
3_China PV&PVM Committee Chapter Liaison Report November 2020-v1	
4_PVMaterials NA TC Chapter Liaison Report Dec 2020	

#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.