



# Photovoltaic Taiwan TC Chapter

## Meeting Summary and Minutes

< Taiwan Autumn Standards Meeting 2021 >

Friday, October 1, 2021, 14:00 – 15:30

Virtual Meeting Due to COVID-19

### TC Chapter Announcements

*Next TC Chapter Meeting*

Jan 10, 2022, 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:** Ray Sung/ UL Taiwan

**SEMI Staff:** Cher Wu / Ada Tai

<i>Company</i>	<i>First</i>	<i>Last</i>	<i>Company</i>	<i>First</i>	<i>Last</i>
<i>AIXU Solar Energy</i>	<i>Kenji</i>	<i>Fukui</i>	<i>ITRI</i>	<i>Min-An</i>	<i>Tsai</i>
<i>Everlight Chemical</i>	<i>DER-GUN</i>	<i>Chou</i>	<i>King Desing Industrial</i>	<i>Jason</i>	<i>Shih</i>
<i>ITRI</i>	<i>T. C.</i>	<i>Wu</i>	<i>National Dong Hwa University</i>	<i>Jerry</i>	<i>Chen</i>
<i>ITRI</i>	<i>Yean-San</i>	<i>Long</i>			

### 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>
#6705	Reapproval of SEMI PV72-0316-EN Test Method of to Evaluate an Accelerated Thermo Humidity Resistance of PV Encapsulation	Fail
#6731	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)	Passed
#6730	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)	Passed
#6732	Revision of SEMI PV76 - Test Method for Durability of Low Light Intensity Organic	Passed



**Table 4 Ballot Results**

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
	Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) and Perovskite Solar Cell(PSC)	
#6733	Revision of SEMI PV80 - Specification of Indoor Lighting Simulator Requirements for Emerging Photovoltaic and Perovskite Solar Cell(PSC)	Passed
#6734	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)	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**

<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.

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
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**

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
None			

**Table 8 SNARF(s) Granted a One-Year Extension**

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
None			

**Table 9 SNARF(s) Abolished**

<i>#</i>	<i>TF</i>	<i>Title</i>
None		

**Table 10 Standard(s) to receive Inactive Status**

<i>Standard Designation</i>	<i>Title</i>
None	

**Table 11 New Action Items**

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

**Table 12 Previous Meeting Action Items**

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

## 1 Welcome, Reminders, and Introductions

Committee Co-Chair Ray Sug(UL Taiwan) 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 2021](#)

## 2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

**Motion:** Approve previous meeting minutes  
**By / 2<sup>nd</sup>:** T.C Wu (ITRI) / Ming-An Tsai (ITRI)  
**Discussion:** None  
**Vote:** 5-0 in favor. Motion passed

**Attachment:** [20210225 Photovoltaic Taiwan TC Chapter v5](#)

## 3 Liaison Reports

### 3.1 Photovoltaic and PV Materials China TC Chapter

3.1.1 Last meeting: April 23rd, Spring 2021 Meeting, Yiwu, Zhejiang, China

Next meeting: TBD

### 3.1.2 Authorized Activities

Doc #	Type	SC/TF/CFG	Document Title/Details
	SNARF	Thin Film PV Module Task Force	Reapproval of SEMI PV78-0817, Test Method for Bending Property of Flexible Thin Film Photovoltaic (PV) Modules

### 3.1.3 SNARF(s) Granted One-Year Extension

Doc #	TF	Document Title/Details	Expiration Date
6401	Thin Film PV Module TF	New Standard: Test Method for Indentation Force of Flexible Thin Film PV Modules	2022/5/26
6402	Thin Film PV Module TF	New Standard: Test Method for Vibration of Flexible Thin Film PV Module	2022/5/26



5983	PV Equipment TF	New Standard: Test Method for In-line Sheet Resistance Inspection	2022/3/15
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### 3.1.4 Five-Year Review

Standard Title	Action By
SEMI PV78-0817, Test Method for Bending Property of Flexible Thin Film Photovoltaic (PV) Modules	PV Committee

### 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](https://www.semi.org/en/standards/Critical_Dates)

**Attachment:** [PV TC Staff Report 20211001](#)

## 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

Process A&R review process for the below 6 ballots.

Document #	Document Title	Committee Action
#6705	Reapproval of SEMI PV72-0316-EN Test Method of to Evaluate an Accelerated Thermo Humidity Resistance of PV Encapsulation	Fail
#6731	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)	Pass
#6730	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)	Pass
#6732	Revision of SEMI PV76 - Test Method for Durability of Low Light Intensity Organic Photovoltaic (OPV) and Dye-Sensitized Solar Cell (DSSC) and Perovskite Solar	Pass



Document #	Document Title	Committee Action
	Cell(PSC)	
#6733	Revision of SEMI PV80 - Specification of Indoor Lighting Simulator Requirements for Emerging Photovoltaic and Perovskite Solar Cell(PSC)	Pass
#6734	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)	Pass

**After review of the Ballot Doc.#6705: SEMI PV72-0316-EN Test Method of to Evaluate an Accelerated Thermo Humidity Resistance of PV Encapsulation for one year extention. There were few rejects from ballot cycle 4. Decided to motion fail this ballot, return to re-work.**

Motion: Agree to fail the Doc. #6705, return to TF rework.

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

Discussion: After review, all TC members agreed to fail it, and return to TF for rework.

Vote: 7-0 in favor. Motion passed

To approve 5 Ballots, Doc#6730, #6731, #6732, #6733, #6734 for A&R process due to no rejects after ballot cycle 4.

Motion: Approve above 5 Ballot for A&R process.

By / 2nd: T.C Wu( ITRI) / Ming-An Tsai (ITRI)

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

Vote: 7-0 in favor. Motion passed

## 5.2 PV Reliability Test TF

None

## 6 Old Business

None

## 7 New Business

None

## 8 Next Meeting and Adjournment

The next meeting is scheduled Jan 10, 2022 @10:00-12:00. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: 15:30.

Respectfully submitted by:

Cher Wu

Senior Executive Consultant

SEMI Taiwan

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



Minutes tentatively approved by:

Co-chair	Date approved
Ray Sung, UL Taiwan	Oct. 8, 2021

**Table 13 Index of Available Attachments#1**

<i>Title</i>	<i>Title</i>
1_Meeting Reminder_2021	3_China PV&PVM Committee Chapter Liaison Report_1001
2_20210225 Photovoltaic Taiwan TC Chapter v5	4_PV TC Staff Report_20211001

#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 [SEMI Staff Name] at the contact information above.