



PV Materials Europe Technical Committee Chapter Meeting Summary and Minutes

SEMICON Europa 2019
November 12, 2019, 12:30 PM – 2 PM
Messe München, Munich Germany

Committee Announcements

Next Committee Meeting
SEMICON Europa 2020

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Peter Wagner, Christian Hagendorf

SEMI Staff: Jim Jackman

<i>Company</i>	<i>Last</i>	<i>First</i>
Jacobs University	Bergholz	Werner
Air Liquide	Gotts	Hugh
Fraunhofer	Haberland	Kolja
Fraunhofer	Hagendorf	Christian
ASML	Planting	Bert
Self	Wagner	Peter

Table 2 Leadership Changes

None

Table 3 Committee Structure Changes

None

Table 4 Ballot Results

Passed ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6373	New Standard: Test Method For Accelerated Cell Level Testing For Light And Elevated Temperature Induced Degradation (LeTID) Susceptibility Of Solar Cells	Passed as with editorial changes.
6543	Reapproval of SEMI PV42-0314: Test Method for In-Line Measurement of Waviness of PV Silicon Wafers by a Light Sectioning Technique Using Multiple Line Segments	Passed as balloted
6544	Reapproval of SEMI PV51-0214: Test Method for In Line Characterization of Photovoltaic Silicon Wafers by Using Photoluminescence	Passed as balloted
6545	Reapproval of SEMI PV52-0214: Test Method for In Line Characterization of Photovoltaic Silicon Wafers Regarding Grain Size	Passed as balloted

Table 5 Authorized Activities

#	Type	SC/TF/WG	Details
None			

Note: SNARFs and TFOFs are available for review on the SEMI Web site at:
<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARE>

Table 6 Authorized Ballots

#	When	SC/TF/WG	Details
None			

Table 7 New Action Items

Item #	Assigned to	Details
2019Nov #01	Jim Jackman	To forward approved ballots to ISC A&R for procedural review

Table 8 Previous Meeting Actions Items

Item #	Assigned to	Details	Status
2019May #01	Kevin Nguyen	Issue reapproval ballots for PV42, PV51, and PV52 in Cycle 7-2019	Completed
2019May #02	Christian Hagendorf	Submit ballot 6373 to staff in time for issuance in Cycle 7-2019	Completed

1 Welcome, Reminders, and Introductions

Peter Wagner, committee co-chair, called the meeting to order at 12:30 PM. The SEMI meeting reminders on membership requirements, antitrust, patentable technology, and meeting guidelines were briefly presented and explained.

2 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting held in May 13, 2019.

Motion: Accept the minutes of the previous meeting as written.

By / 2nd: Christian Hagendorf / Hugh Gotts

Discussion: None

Vote: 5-0 in favor. Motion passed.

3 Liaison Reports

3.1 *China PV Materials Committee*

Jim Jackman presented the report.

Attachment: 01, China PV&PVM Committee Chapter Liaison Report October 2019 -v2

3.2 *Japan PV Materials Committee*

Jim Jackman presented the report.

Attachment: 02, 190419_LiaisonReport_JA_PVPVM_v1.0

3.3 North America PV Materials Committee

Hugh Gotts presented the report.

Attachment: 03, PVMaterials NA TC Chapter Liaison Report September 2019

4 Staff Report

4.1 Jim Jackman presented the report. Of note,

- Upcoming events
- 2020 Critical Dates for SEMI Standards Ballots
- SEMI Standards Publications
 - Total SEMI Standards in portfolio: 1014
 - Includes 274 Inactive Standards
- Regulations & Procedure Manual
 - Regulations (Feb, 2019)
 - Procedure Manual (Feb, 2019)

Attachment: 04, Staff Report Nov 2019_v1

5 Ballot Review

5.1 Doc. 6373, New Standard: Test Method For Accelerated Cell Level Testing For Light And Elevated Temperature Induced Degradation (LeTID) Susceptibility Of Solar Cells

5.1.1 It **passed** TC Chapter review with editorial changes.

Attachment: 05, 6373 Ballot Review

5.2 Doc. 6543, Reapproval of SEMI PV42-0314: Test Method for In-Line Measurement of Waviness of PV Silicon Wafers by a Light Sectioning Technique Using Multiple Line Segments

5.2.1 It **passed** TC Chapter review as balloted.

Attachment: 06, 6543 Ballot Review

5.2.2 Doc. 6544, Reapproval of SEMI PV51-0214: Test Method for In Line Characterization of Photovoltaic Silicon Wafers by Using Photoluminescence

5.2.3 It **passed** TC Chapter review as balloted.

Attachment: 07, 6544 Ballot Review

5.2.4 Doc. 6545, Reapproval of SEMI PV52-0214: Test Method for In Line Characterization of Photovoltaic Silicon Wafers Regarding Grain Size

5.2.5 It **passed** TC Chapter review as balloted.

Attachment: 08, 6545 Ballot Review



6 Task Force Reports

6.1 *PV Materials Degradation Task Force*

Christian Hagendorf reported.

Attachment: 9, PV Materials Degradation Task Force Report

7 Old Business

7.1 None

8 New Business

8.1 None

9 Action Item Review

9.1 *Open Action Items*

None

9.2 *New Action Items*

Refer to table 7.

10 Next Meeting

The next meeting will likely be held at SEMICON Europa 2020.

11 Adjournment

Having no further business, a motion was made to adjourn the PV Materials EU TC Chapter. Adjournment was at 2:00 PM.

Respectfully submitted by:

Jim Jackman
Vice President, Finance & Administration
673 S. Milpitas Boulevard
Milpitas, CA 95035
Email: jjackman@semi.org

Minutes approved by:

Peter Wagner, Self	
Christian Hagendorf	

Table 9 Index of Available Attachments #1

<i>#</i>	<i>Title</i>	<i>#</i>	<i>Title</i>
1	China PV&PVM Committee Chapter Liaison Report October 2019 -v2	6	6543 Ballot Review
2	190419_LiaisonReport_JA_PVPVM_v1.0	7	6544 Ballot Review
3	PVMaterials NA TC Chapter Liaison Report September 2019	8	6545 Ballot Review
4	Staff Report Nov 2019_v1	9	PV Materials Degradation Task Force Report
5	6373 Ballot Review		

#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 Jim Jackman at the contact information above.