

Japan TC Chapter of PV Global Technical Committee Japan TC Chapter of PV Materials Global Technical Committee Joint Meeting Summary and Minutes

Japan Standards Summer 2014 Meetings
Friday, July 4, 2014, 1:30 p.m. – 5:00 p.m.
SEMI Japan office, Tokyo, Japan

Next Committee Meeting

Thursday, September 11, 2014, 1:30 p.m. – 5:00 p.m [Japan Standard Time]
Japan Standards Fall 2014 Meetings, Tokyo, Japan

Committee Announcements (optional)

None

Table 1 Meeting Attendees

PV Committee/Co-Chairs: Kazuhiko Kashima (GlobalWafers Japan), Masaaki Yamamichi (AIST), Hiromu Takatsuka (Mitsubishi Heavy Industries)

PV Materials Committee/Co-Chairs: Kazuhiko Kashima (GlobalWafers Japan), Takashi Ishihara (Mitsubishi Electric), Tetsuo Fukuda (AIST)

SEMI Staff: Chie Yanagisawa

Attendee: 6 + **SEMI:** 1

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
AIST	Yamamichi	Masaaki	Mitsubishi Electric	Ishihara	Takashi
AIST	Fukuda	Tetsuo	NPC	Yoshino	Seiji
Fuji Film	Miyake	Kiyoteru	Sumika Chemical Analysis Service	Watanabe	Satoru

** alphabetical order by company name*

Japan TC Chapter of PV Global Technical Committee

Table 2 Leadership Changes

None

Table 3 Ballot Results (or move to Section 4, Ballot Review)

None

Table 4 Authorized Ballots (or move to Section 7, New Business)

None

Table 5 Authorized Activities (or move to Section 7, New Business)

None

Table 6 New Action Items (or move to Section 8, Action Item Review)

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20140704-1	Chie Yanagisawa (SEMI Japan)	To get the draft charter of the PV System Technical Committee from SEMI China and forward it to the co-chairs.

Table 7 Previous Meeting Actions Items (or move to Section 8, Action item Review)

None

Japan TC Chapter of PV Materials Global Technical Committee

Table 8 Leadership Changes

None

Table 9 Ballot Results (or move to Section 4, Ballot Review)

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

Failed ballots and line items were returned to the originating task forces for re-work and re-balloting.

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
5532	New Standard: Test Method for Measurement of Cracks in PV Silicon Wafers in PV Modules by Laser Scanning	Passed with editorial changes

(At a later date after the meeting, it turned out that, although LOI was obtained, the LOA has not been obtained yet. So, the part of “VIII Intellectual Property Check” of the procedural review should be reviewed again as it is at the next TC meeting.)

Table 10 Authorized Ballots (or move to Section 7, New Business)

None

Table 11 Authorized Activities (or move to Section 7, New Business)

None

Table 12 New Action Items (or move to Section 8, Action Item Review)

None

Table 13 Previous Meeting Actions Items (or move to Section 8, Action item Review)

None

1 Welcome, Reminders, and Introductions

Masaaki Yamamichi (AIST), co-chair, called the meeting to order at 1:30 p.m. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

2 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting.

Motion: To approve as written.

By / 2nd: Tetsuo Fukuda (AIST) / Takashi Ishihara (Mitsubishi Electric)

Discussion: None

Vote: 5 in favor and 0 opposed. Motion passed.

Attachment: 01, 140307_JA_PV=PVMaterial_MeetingMinutes_Final

3 Liaison Reports

3.1 China PV TC Chapter

Chie Yanagisawa (SEMI Japan) reported for the China Photovoltaic TC Chapter as attached.

Masaaki Yamamichi mentioned that a new activity as PV System Technical Committee in China region would be proposed at ISC in July and asked SEMI Staff to get the draft charter for information.

Action Item: Chie Yanagisawa (SEMI Japan) to get the draft charter of the PV System Technical Committee from SEMI China and forward it to the co-chairs.

Attachment: 02, China Photovoltaic Committee Liaison Report20140624

3.2 Europe PV Materials TC Chapter

Chie Yanagisawa (SEMI Japan) reported that there is no update for the Europe PV Materials TC Chapter.

3.3 North America PV Materials TC Chapter

Chie Yanagisawa (SEMI Japan) reported for the North America Photovoltaic Materials TC Chapter as attached.

Attachment: 03, NA Liaison Report PV Materials 20140504

3.4 Taiwan Photovoltaic TC Chapter

Chie Yanagisawa (SEMI Japan) reported for the Taiwan Photovoltaic TC Chapter as attached.

Attachment: 04_Taiwan Liaison Report for PV_ May_ 2014

3.5 SEMI Staff Report

Chie Yanagisawa (SEMI Japan) gave the SEMI Staff Report. Of note:

- Global SEMI Events
- Global Standards Meetings Schedule
- Ballot Critical Dates
- Publication Update
- Changes of SEMI Japan President
- Contact Information

Attachment: 05_SEMI Staff Report 2014 July_R0.1

Japan PV TC Chapter

4 Subcommittee & Task Force Reports

None

5 Old Business

None

6 New Business

The discussion was made about the significance that the Japan PV TC Chapter exists. Of note:

- The issue was raised that the Japan PV TC Chapter and the Japan PV Materials TC Chapter could be merged into one TC Chapter.
- Most of the attendees were in favor of the idea that it might be reorganized and scope those two activities under the name of the Japan PV TC Chapter.
- Further discussion would be made with watching the attitudes of Europe PV related TC Chapters.

7 Action Item Review

7.1 Open Action Items

There is no open action item.

7.2 New Action Items

Chie Yanagisawa (SEMI Japan) reviewed the new action items. These can be found in the New Action Items table at the beginning of these minutes.

Japan PV Materials TC Chapter

8 Ballot Review

8.1 Document #5532, NEW STANDARD: TEST METHOD FOR MEASUREMENT OF CRACKS IN PV SILICON WAFERS IN PV MODULES BY LASER SCANNING

The details of ballot review are found in the attachment of “A&R_5532”.

Document #	Document Title	Committee Action
5532	New Standard: Test Method for Measurement of Cracks in PV Silicon Wafers in PV Modules by Laser Scanning	Passed with editorial changes

Attachment: 06, A&R_5532

(At a later date after the meeting, it turned out that, although LOI was obtained, the LOA has not been obtained yet. So, the part of “VIII Intellectual Property Check” of the procedural review should be reviewed again as it is at the next TC meeting.)

9 Subcommittee & Task Force Reports

9.1 Japan PV Materials Task Force

Tetsuo Fukuda (AIST), co-leader, reported for the PV Materials Task Force that Doc. 5532, NEW STANDARD: TEST METHOD FOR MEASUREMENT OF CRACKS IN PV SILICON WAFERS IN PV MODULES BY LASER SCANNING was balloted for Cycle 3-2014 and passed with editorial changes at this meeting.

10 Old Business

10.1 Proposal of withdrawal of SNARF 5417

Tetsuo Fukuda (AIST), co-leader of Japan PV Materials Task Force addressed the committee on this topic.

The same topic as SNARF 5417 “New Standard: Test Method for Measurement of Defects in PV Silicon Wafers in PV Modules by Electroluminescence Imaging” has been under development at IEC (International Electrotechnical Commission). So, the task force decided to discontinue the development of #5417.

Motion: Japan PV Materials Task Force to discontinue SNARF 5417 “New Standard: Test Method for Measurement of Defects in PV Silicon Wafers in PV Modules by Electroluminescence Imaging”

By / 2nd: Tetsuo Fukuda (AIST) / Takashi Ishihara (Mitsubishi Electric)

Discussion: None

Vote: 5 in favor and 0 opposed. Motion passed.

The Japan PV Materials TC Chapter decided to withdraw SNARF 5417 “New Standard: Test Method for Measurement of Defects in PV Silicon Wafers in PV Modules by Electroluminescence Imaging”.

11 New Business

None

12 Action Item Review

12.1 Open Action Items

None

12.2 New Action Items

None

13 Next Meeting and Adjournment

The next joint meeting of the Japan PV TC Chapter and the Japan PV Materials TC Chapter is scheduled for Thursday, September 11, 2014 at Japan Standards Fall 2014 Meetings in SEMI Japan office, Tokyo.

Having no further business, a motion was made by Masaaki Yamamichi, co-chair, to adjourn the joint meeting of the Japan PV TC Chapter and the Japan PV Materials TC Chapter at SEMI Japan office. The meeting unanimously adjourned at 5 p.m.

Respectfully submitted by:

Chie Yanagisawa

Senior Standard Coordinator

SEMI Japan

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Minutes approved by:

Masaaki Yamamichi (AIST), Co-chair / PV Committee	September 11, 2014
Takashi Ishihara (Mitsubishi Electric), Co-chair / PV Materials Committee	September 11, 2014
Tetsuo Fukuda (AIST) / PV Materials Committee	September 11, 2014

Table 14 Index of Available Attachments #1

#	Title	#	Title
01	140307_JA_PV=PVMaterial_MeetingMinutes_Final	04	Taiwan Liaison Report for PV_May_2014
02	China Photovoltaic Committee Liaison Report20140624	05	SEMI Staff Report 2014 July_R0.1
03	NA Liaison Report PV Materials 20140504	06	A&R_5532

#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.