Europe PV Automation Committee
Meeting Summary and Minutes

TC Meeting
5 June 2014, 10h-13h
Ramada Hotel, Munich, Germany

Next Committee Meeting
Committee to be transformed into Automation Technology Committee
Next meeting of Automation Technology Committee will be held at SEMICON Europa, in Grenoble, France October 7th, 2014.

Table 1 Meeting Attendees
Co-Chairs: Eberhard Teichmann (PEER Group)
SEMI Staff: Stephan Raithel

<table>
<thead>
<tr>
<th>Company</th>
<th>Last</th>
<th>First</th>
<th>Company</th>
<th>Last</th>
<th>First</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitronic</td>
<td>Born</td>
<td>Carsten</td>
<td>AIS</td>
<td>Fincke</td>
<td>Friedemann</td>
</tr>
<tr>
<td>PEER Group</td>
<td>Teichmann</td>
<td>Eberhard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEER Group</td>
<td>Hoffman</td>
<td>Christian</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>TEL</td>
<td>Murakami</td>
<td>Takashi</td>
<td></td>
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</tr>
<tr>
<td>TEL</td>
<td>Asakawa</td>
<td>Terry</td>
<td></td>
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</tr>
</tbody>
</table>

Table 2 Leadership Changes

<table>
<thead>
<tr>
<th>Group</th>
<th>Previous Leader</th>
<th>New Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV Automation → Automation Technology Committee</td>
<td>Eberhard Teichmann</td>
<td>Christian Hoffman, PEER Group TBD, VDMA</td>
</tr>
</tbody>
</table>

Table 3 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.

<table>
<thead>
<tr>
<th>Document #</th>
<th>Document Title</th>
<th>Committee Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>5153</td>
<td>New Standard: Data Definition Specification for a Horizontal Communication Between Equipment for Photovoltaic Fabrication System</td>
<td>Passed</td>
</tr>
</tbody>
</table>

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

None

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

<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>SC/TF/WG</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Transformation of GTC</td>
<td></td>
<td>The PV Automation Ctte will be transformed into a “Automation Technology Ctte”.</td>
</tr>
</tbody>
</table>

Note: SNARFs and TFOFs are available for review on the SEMI Web site at:
http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF
1 Welcome, Reminders, and Introductions
Stephen Raithel called the meeting to order at 10h. 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
N/A

3 Liaison Reports

3.1 Japan PV Automation Committee
Terry Asakawa reported for the Japan PV Automation Committee.
Terry also presented information on the Flowmaster activity in Japan
Attachment: #01: Flowmaster presentation

3.2 Taiwan PV Committee
Stephan Raithel reported for the Taiwan PV Committee.

3.3 China PV Committee
Stephan Raithel reported for the China PV Committee.

3.4 SEMI Staff Report
Stephan Raithel reported for SEMI.

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

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SEMI Staff</td>
<td>include all Liaison Reports in meeting minutes</td>
</tr>
</tbody>
</table>
4 Ballot Review

4.1 Document # 5153 New Standard: Data Definition Specification for a Horizontal Communication Between Equipment for Photovoltaic Fabrication System was presented by Carsten Born (powerpoint attached)

Tallies

92 votes, 1 reject

NOTICE: This document met the 90% approval condition set forth in Section 9.6.3 of the Regulations Governing SEMI Standards Committees at the close of balloting.

NOTICE: This document did NOT meet the 90% approval condition set forth in Section 9.6.3 of the Regulations Governing SEMI Standards Committees at the close of balloting.

Rejects/Negatives

Motion about Rejects / negatives in Doc 5153 ballot review

Motion: Negative vote 1: Reject point 1 is related but not technically persuasive
By / 2nd: Eberhard Teichmann, Carsten Born
Discussion: 4 for/ 0 against

Motion: Negative vote 1: Reject point 2 is related but not technically persuasive
By / 2nd: Eberhard Teichmann, Carsten Born
Discussion: 4 for/ 0 against

Negative comments:

1) SCOPE is different between SNARF and this ballot. SNARF: Specify 'Data Definition'. E.g. Data to identify material, Quality and process related material data and control and status data which are not material related. This ballot: Define a standard description of data for PV35 by use of XML. First of all, the SNARF shall be revised before the submission of this ballot.

2) The title 'DATA DEFINITION' of this standard is not appropriate because 'Data Definition' means to define data format, structure, contents while this standard defines the data description for PV35. So, 'META DATA DESCRIPTION' shall be used as the title. Why did you change from the previous title?

Attachment: #02: Powerpoint presented by Carsten Born

5 New Business

5.1 Transformation of PV Automation Committee into Automation Technology Committee

Terry Asakawa addressed the committee on this topic

Motion: To transform the PV Automation Committee into a “Automation Technology Cttee”, global, active chapter in Europe and Japan
By / 2nd: Eberhard Teichmann/ FriedemannFincke
Discussion:
Vote: 4 for/0 against

Attachment: #03: transformation petition presented by Terry Asakawa

6 Action Item Review

6.1 Open Action Items
Stephan Raithel (SEMI) reviewed the open action items. These can be found in the Open Action Items table at the beginning of these minutes.

7 Next Meeting and Adjournment
The next meeting of the Automation Technology committee is scheduled for October 7, in Grenoble, France at SEMICON Europa.
Table 7 Index of Available Attachments #1

<table>
<thead>
<tr>
<th>#</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Flowmaster Presentation</td>
</tr>
<tr>
<td>02</td>
<td>Presentation of ballot #5153 voting results</td>
</tr>
<tr>
<td>03</td>
<td>Petition for transformation of the PV Automation TC into Automation Technology TC</td>
</tr>
</tbody>
</table>

#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.