TC Chapter Announcements

Next TC Chapter Meeting
Tuesday, September 4, 2018 10:30-15:00
SEMI Japan office, Tokyo, Japan

Table 1 Meeting Attendees

<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>Applied Materials</td>
<td>Liu</td>
<td>Shane</td>
<td>Panasonic</td>
<td>Sugihara</td>
<td>Kenji</td>
</tr>
<tr>
<td>Hatsuta Seisakusho</td>
<td>Crawford</td>
<td>Moray</td>
<td>Tokyo Electron</td>
<td>Mashiro</td>
<td>Supika</td>
</tr>
<tr>
<td>Murata Machinery</td>
<td>Tominaga</td>
<td>Tadamasa</td>
<td>TÜV Rheinland</td>
<td>Matushita</td>
<td>Kazuya</td>
</tr>
<tr>
<td>NuFlare Technology</td>
<td>Sakura</td>
<td>Hidetoshi</td>
<td>SEMI Japan</td>
<td>Yanagisawa</td>
<td>Chie</td>
</tr>
</tbody>
</table>

Table 2 Leadership Changes

<table>
<thead>
<tr>
<th>WG/TF/SC/TC Name</th>
<th>Previous Leader</th>
<th>New Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 3 Committee Structure Changes

<table>
<thead>
<tr>
<th>Previous WG/TF/SC Name</th>
<th>New WG/TF/SC Name or Status Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Table 4 Ballot Results

<table>
<thead>
<tr>
<th>Document #</th>
<th>Document Title</th>
<th>Committee Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>6289</td>
<td>Revision to SEMI S18-0312 “Environmental, Health and Safety Guideline for Flammable Silicon Compounds” with title change to “Environmental, Health, and Safety Guideline for Flammable Silicon Compounds”</td>
<td>Passed with editorial changes</td>
</tr>
</tbody>
</table>

Note 1: Passed ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.
Note 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 prior to the Originating TC Chapter meeting

<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>SC/TF/WG</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 6 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

<table>
<thead>
<tr>
<th>#</th>
<th>SC/TF/WG</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>6392</td>
<td>SDRCM TF</td>
<td>New SNARF for Line Item Revision to SEMI S17-0113 “Safety Guideline for Unmanned Transport Vehicle (UTV) Systems”</td>
</tr>
<tr>
<td>6393</td>
<td>SDRCM TF</td>
<td>New SNARF for Line Item Revision to SEMI S25-0213 “Safety Guideline for Hydrogen Peroxide Storage &amp; Handling Systems”</td>
</tr>
</tbody>
</table>

Note 1: SNARFs and TFOFs are available for review on the SEMI Web site at: [http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF](http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF)

### Table 7 Authorized Ballots

<table>
<thead>
<tr>
<th>#</th>
<th>When</th>
<th>TF</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>6392</td>
<td>--</td>
<td>SDRCM TF</td>
<td>Line Item Revision to SEMI S17-0113 “Safety Guideline for Unmanned Transport Vehicle (UTV) Systems”</td>
</tr>
<tr>
<td>6393</td>
<td>--</td>
<td>SDRCM TF</td>
<td>Line Item Revision to SEMI S25-0213 “Safety Guideline for Hydrogen Peroxide Storage &amp; Handling Systems”</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>#</th>
<th>TF</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Table 9 SNARF(s) Abolished

<table>
<thead>
<tr>
<th>#</th>
<th>TF</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6199</td>
<td>SDRCM TF</td>
<td>Reapproval of SEMI S17-0113, Environmental, Health and Safety Guideline for Documents Provided to the Equipment User for Use With Manufacturing Equipment</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Standard Designation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Table 11 New Action Items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>20180424-01</td>
<td>SDRCM TF</td>
<td>To prepare a new SNARF for revision to SEMI S13-0113</td>
</tr>
<tr>
<td>20180424-02</td>
<td>SDRCM TF</td>
<td>To submit the two ballots (Line Item Revision to SEMI S17 and Line Item Revision to SEMI S25) in 2018.</td>
</tr>
<tr>
<td>20180424-03</td>
<td>Staff</td>
<td>To request to companies participating EHS and/or Facilities to consider sending experts to the Seismic Protection TF.</td>
</tr>
</tbody>
</table>
Table 12 Previous Meeting Action Items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
</table>
| EHS171004-01 | SEMI Japan staff               | To convey the message of the EHS Japan TC Chapter that SEMI should clearly define the word “STEP” is “published SEMI Standards education program” and SEMI HQ makes the staffs understand that definition in all regions including ones with no Standards division. (*This action is succeeded from EHS170425-02.)  
  -> CLOSE at SEMI Japan staff |
| EHS171004-02 | The attendees at this TC Chapter meeting (October 4, 2017) | To get their companies consider to nominate a new leader for the Seismic Protection Task Force in order that the task force could continue the activity in Japan region.  
  -> OPEN                                                                                       |
| EHS171004-03 | The attendees at this TC Chapter meeting (October 4, 2017) | To get their companies consider to participate in S18 Revision Task Force.  
  -> due to passage of S18 revision ballot, this action item is discontinued.                   |
| EHS171004-04 | SDRCM TF                        | To propose a new SNARF for Line Item Revision to SEMI S17 at the first EHS Japan TC Chapter meeting in 2018.  
  ->CLOSE                                                                                       |

1 Welcome, Reminders, and Introductions

Moray Crawford (Hatsuta Seisakusho) called the meeting to order at 13:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01_Required_Elements_Reg_20150327_E+J

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

<table>
<thead>
<tr>
<th>Motion:</th>
<th>To approve the previous meeting minutes with corrections.</th>
</tr>
</thead>
<tbody>
<tr>
<td>By / 2nd:</td>
<td>Hidetoshi Sakura (NuFlare Technology) / Tadamasa Tominaga (Murata Machinery)</td>
</tr>
<tr>
<td>Discussion:</td>
<td>None</td>
</tr>
<tr>
<td>Vote:</td>
<td>6 in favor and 0 opposed. Motion passed.</td>
</tr>
</tbody>
</table>

Attachment: 02_20171215_EHS-Japan_Minutes_Final

3 Liaison Reports

3.1 JRSC Report

No update because the next JRSC meeting will be held on April 25 and the report of the previous JRSC meeting held on December 12 was done at the previous EHS Japan TC Chapter meeting on December 15, 2017.

3.2 GCS Report

Hidetoshi Sakura (NuFlare Technology) reported for the EHS GCS that there was no item between the previous Japan TC Chapter meeting and this meeting.

3.3 EHS North America TC Chapter

Supika Mashiro (Tokyo Electron) reported for the EHS North America TC Chapter as attached. Of note:
• S2 Korean High Pressure Gas Safety TF is newly formed.
  o Charter: To add an RI to address concerns raised by the Korean end users regarding the new Korean High Pressure Gas Safety Act
  o Scope: Add an RI to SEMI S2 along with an appropriate reference to the new RI in the main body of S2

Attachment: 03_NA EHS TC Chapter Liaison report April 2018 v3

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

Attachment: 04_Taiwan EHS Liaison Report _201803_r1

3.5 SEMI Staff Report
Chie Yanagisawa (SEMI Japan) gave the SEMI Staff Report. Of note:
• SEMI Global 2018 Calendar of Events
• Global Standards Meeting Schedule
• SEMICON Japan Standards Meetings
• 2018 Critical Dates for SEMI Standards Ballots
• A&R Ballot Review
• SEMI Standards Publications
• JRSC Topics

Attachment: 05_SEMI Staff Report 20180423_r0

4 Ballot Review
NOTE 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.

4.1 Document #6289: Revision to SEMI S18-0312 “Environmental, Health and Safety Guideline for Flammable Silicon Compounds” with title change to “Environmental, Health, and Safety Guideline for Flammable Silicon Compounds”

Attachment: 06_6289_LetterBallotReviewSheet_S18Revision_20180424_r1

5 Subcommittee and Task Force Reports
5.1 GHG Emission Characterization Task Force
Chie Yanagisawa (SEMI Japan) conveyed a message from George Hoshi (Tokyo Electron) for the GHG Emission Characterization Task Force there is no update.
5.2 *S18 Revision Task Force*
Supika Mashiro (Tokyo Electron) reported that Ballot 6289 was reviewed and passed. Detailed information is provided at “Ballot Review” section of this meeting.

5.3 *S23 Revision Global Task Force*
Chie Yanagisawa (SEMI Japan) conveyed a message from George Hoshi (Tokyo Electron) for the S23 Revision Global Task Force there is no update. But the following topic was included in the NA TC Chapter liaison report.
- There was a discussion on having S23 as an ANSI accreditation

5.4 *SDRCM (S Documents REG-PG-SM Conformance Maintenance) Task Force*
Supika Mashiro (Tokyo Electron) reported that the two SNARFs for Line Item Revision to the following two documents will be proposed at “New Business” section of this meeting.
She added that SEMI S25 is originally developed by the Europe TC Chapter and after the discharge of the TC Chapter, currently the NA TC Chapter has taken actions for reviewing. Since no major revision is required for the current version, the ballot procedure for Line Item Revision to SEMI S25 is requested by the NA TC Chapter to Japan TC Chapter.

5.5 *Seismic Protection Task Force*
Supika Mashiro (Tokyo Electron) reported that the task force activity is dormant, but the NA liaison TF wants to elevate from a liaison task force to a global task force.

5.6 *STEP Planning Working Group*
Kenji Sugihara (Panasonic) reported that the working group is planning for the STEP/SEMI S2 in 2018. The STEP proposal will be made at “New Business” section.

6 *Old Business*
6.1 *Project Period Review*
The TC Chapter reviewed the following items at the meeting. Currently there is no other active SNARF than the following one.
- #6199: Reapproval of SEMI S17-0113, Safety Guideline for Unmanned Transport Vehicle (UTV) Systems
Supika Mashiro (Tokyo Electron) explained the background of this SNARF withdrawal and made a proposal as follows.
  - When #6199 activity started on April 25, 2017, initially considered as Reapproval of SEMI S17-0113.
  - However, in order to remove the list of section numbers and titles outside of main body per PM § 3.2.3, a new SNARF for line item revision will be proposed at the next TC Chapter meeting.
  - So, the ballot submission corresponding to #6199 SNARF will not happen.

**Motion:** To approve abolishment of SNARF#6199
6.2 Five Year Review
The TC Chapter reviewed the list of the Standards by Japan TC Chapter published in 2013 as follows.
- SEMI S13-0113: Environmental, Health and Safety Guideline for Documents Provided to the Equipment User for Use With Manufacturing Equipment

Supika Mashiro (Tokyo Electron) said that “Scope” section contains the section titles of this document and it should be revised for conformance with Regulations.

**Action Item:** 20180424-01, SDRCM TF to prepare a new SNARF for revision to SEMI S13-0113

7 New Business

7.1 Proposal of New Activity
7.1.1 Line Item Revision to SEMI S17-0113 “Safety Guideline for Unmanned Transport Vehicle (UTV) Systems”

Supika Mashiro (Tokyo Electron) addressed the committee on this topic.

**Motion:** To approve a new SNARF for Line Item Revision to SEMI S17-0113
**By / 2nd:** Supika Mashiro (Tokyo Electron) / Tadamasa Tominaga (Murata Machinery)
**Discussion:** None
**Vote:** 5 in favor and 0 opposed. **Motion Passed.**

**Motion:** To approve ballot submission of Line Item Revision to SEMI S17-0113
**By / 2nd:** Supika Mashiro (Tokyo Electron) / Tadamasa Tominaga (Murata Machinery)
**Discussion:** None
**Vote:** 5 in favor and 0 opposed. **Motion Passed.**

7.1.2 Line Item Revision to SEMI S25-0213 “Safety Guideline for Hydrogen Peroxide Storage & Handling Systems”

Supika Mashiro (Tokyo Electron) addressed the committee on this topic.

**Motion:** To approve a new SNARF for Line Item Revision to SEMI S25-0213
**By / 2nd:** Supika Mashiro (Tokyo Electron) / Tadamasa Tominaga (Murata Machinery)
**Discussion:** None
**Vote:** 5 in favor and 0 opposed. **Motion Passed.**

**Motion:** To approve ballot submission of Line Item Revision to SEMI S25-0213
**By / 2nd:** Supika Mashiro (Tokyo Electron) / Tadamasa Tominaga (Murata Machinery)
**Discussion:** None
**Vote:** 5 in favor and 0 opposed. **Motion Passed.**
**Action Item:** 20180424-02, SDRCM TF to submit the two ballots (Line Item Revision to SEMI S17 and Line Item Revision to SEMI S25) in 2018.

### 7.1.3  STEP/SEMI S2 proposal

Kenji Sugihara (Panasonic) addressed the committee on this topic.

<table>
<thead>
<tr>
<th>Motion:</th>
<th>To approve STEP/SEMI S2 to be held in November 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>By: 2nd:</td>
<td>Kenji Sugihara (Panasonic) / Moray Crawford (Murata Machinery)</td>
</tr>
<tr>
<td>Discussion:</td>
<td>None</td>
</tr>
<tr>
<td>Vote:</td>
<td>5 in favor and 0 opposed. <strong>Motion Passed.</strong></td>
</tr>
</tbody>
</table>

Supika Mashiro (Tokyo Electron) requested to leave time for the TC Chapter co-chairs to review the presentation materials before printing.

### 8 Action Item Review

#### 8.1 Open Action Items

8.1.1 EHS171004-02: The attendees at this TC Chapter meeting (October 4, 2017) to get their companies consider to nominate a new leader for the Seismic Protection Task Force in order that the task force could continue the activity in Japan region.

-> OPEN

The discussion was made as follows.

Supika Mashiro (Tokyo Electron) does not agree with a comment of Yoshihiro Hosaka (DAIFUKU) at the previous meeting, which is quoted below. In summary, she said “It is better for the leader to have the knowledge of architect, but it is not the necessary condition. Leadership is more expected. There are some people in the NA liaison TF who are inclined to make S2 Seismic sections to be aligned with seismic standards prevalent in the U.S.A. It is dangerous to let the NA TF take the sole control on this issue since there are much more stringent requirements applicable to some major semiconductor manufacturing locations (e.g., Taiwan). One of the Global TF leaders would be from Japan, not need to be proficient. She asks to Tadamasa Tominaga (Murata Machinery) to raise this issue to his company. He mentioned that Adachi (Murata Machinery) would like to join the TF, but he is not familiar with structures. She says she could continue to be a TF leader.

- Yoshihiro Hosaka (DAIFUKU) made a comment that the leader(s) should be familiar with architect, especially US architect, and machine design, so the task force needs other participants than AHMS suppliers.

**Action Item:** 20180424-03, Staff to request to companies participating EHS and/or Facilities to consider sending experts to the Seismic Protection TF.

8.1.2 EHS171004-03: The attendees at this TC Chapter meeting (October 4, 2017) to get their companies consider to participate in S18 Revision Task Force.

-> due to passage of S18 revision ballot, this action item is discontinued.

8.1.3 EHS171004-04: SCRCM TF to propose a new SNARF for Line Item Revision to SEMI S17 at the first EHS Japan TC Chapter meeting in 2018.

-> CLOSE
8.2 New Action Items
The committee reviewed the following action items.

**Action Item:** 20180424-01, SDRCM TF to prepare a new SNARF for revision to SEMI S13-0113

**Action Item:** 20180424-02, SDRCM TF to submit the two ballots (Line Item Revision to SEMI S17 and Line Item Revision to SEMI S25) in 2018.

**Action Item:** 20180424-03, Staff to request to companies participating EHS and/or Facilities to consider sending experts to the Seismic Protection TF.

9 Next Meeting and Adjournment
The next meeting is scheduled as follows. See [http://www.semi.org/en/events](http://www.semi.org/en/events) for the current list of meeting schedules.

- Date and Time: Tuesday, September 4, 2018, 10:30-15:00
- Venue: SEMI Japan office

Having no further business, a motion was made to adjourn. Adjournment was at 16:00.
Respectfully submitted by:
Chie Yanagisawa
Manager
SEMI Japan
Phone: +81.3.3222.5863
Email: c yanagisawa@semi.org

Minutes tentatively approved by:

<table>
<thead>
<tr>
<th>Name</th>
<th>Chair</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supika Mashiro (Tokyo Electron), Co-chair</td>
<td>July 4, 2018</td>
<td></td>
</tr>
<tr>
<td>Hidetoshi Sakura (NuFlare Technology), Co-chair</td>
<td>July 4, 2018</td>
<td></td>
</tr>
<tr>
<td>Moray Crawford (Hatsuta Seisakusho), Co-chair</td>
<td>July 5, 2018</td>
<td></td>
</tr>
</tbody>
</table>

Table 13 Index of Available Attachments*

<table>
<thead>
<tr>
<th>Title</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>01_Required_Elements_Reg_20150327_E+J</td>
<td>04_Taiwan EHS Liaison Report _201803_r1</td>
</tr>
<tr>
<td>02_20171215_EHS-Japan_Minutes_Final</td>
<td>05_SEMI Staff Report 20180423_r0</td>
</tr>
<tr>
<td>03_NA EHS TC Chapter Liaison report April 2018 v3</td>
<td>06_6289_LetterBallotReviewSheet_S18Revision_20180424_r1</td>
</tr>
</tbody>
</table>

*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.