TC Chapter Announcements
Next TC Chapter Meeting
Friday, December 13, 2019, 13:00-17:00 (tentative)
Conference Tower, Tokyo Big Sight, Tokyo, Japan

Table 1 Meeting Attendees
*Italics indicate virtual participants*

**Co-Chairs:** Hidetoshi Sakura/ Nuflare Technology, Supika Mashiro/Tokyo Electron, Moray Crawford/Hatsuta Seisakusho

**SEMI Staff:** Chie Yanagisawa (SEMI Japan)

<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>Tokyo Electron</td>
<td>Hoshi</td>
<td>Joji</td>
</tr>
<tr>
<td>NuFlare Technology</td>
<td>Sakura</td>
<td>Hidetoshi</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NuFlare Technology</td>
<td>Ishii</td>
<td>Kazuhiro</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>Global Seismic Protection TF</td>
<td>None</td>
<td>Supika Mashiro (Tokyo Electron)</td>
</tr>
</tbody>
</table>
*Supika Mashiro (Tokyo Electron) was the leader of Seismic Protection TF before its globalization.

| SDRCM (S Documents REG-PG-SM Conformance Maintenance) TF | Supika Mashiro (Tokyo Electron) | None |
*Due to disbandment of the TF

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>SDRCM (S Documents REG-PG-SM Conformance Maintenance) TF</td>
<td>Disbanded</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>None</td>
<td></td>
<td></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>--</td>
<td>TFOF</td>
<td>Global Seismic Protection TF</td>
<td>Since TFOF of a Global TF needs the approval of the GCS, the TFOF was submitted to the GCS and approved on June 27, 2019.</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>None</td>
<td></td>
<td></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

### Table 7 Authorized Ballots

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

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

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

### Table 11 New Action Items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></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>
<tbody>
<tr>
<td>EHS20190419-01</td>
<td>SEMI staff</td>
<td>to check if there is any participation from RIKEN KEIKI, NEW COSMOS ELECTRIC and JAPAN PIONICS. -&gt; Yes, there is at least one participating Japanese company’s affiliate. CLOSE</td>
</tr>
<tr>
<td>EHS20190419-02</td>
<td>Supika Mashiro (Tokyo Electron)</td>
<td>to check if there should be any Standard for 5-Year Review and, if not, then to propose discharge of the TF at its next TC Chapter meeting. -&gt; CLOSE</td>
</tr>
<tr>
<td>EHS20190419-03</td>
<td>Seismic Protection TF leaders</td>
<td>to prepare for the revised TFOF -&gt; CLOSE</td>
</tr>
</tbody>
</table>
EHS Japan TC Chapter
Meeting Minutes
Tokyo, Japan
August 29, 2019

Table 12 Previous Meeting Action Items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS20190419-04</td>
<td>SEMI staff</td>
<td>to forward it to the GCS for approval, after the TFOF draft is ready, with a message that the globalization is approved by the NA TC Chapter and the Japan TC Chapter at their meetings which are recorded in the meetings minutes. -&gt; CLOSE</td>
</tr>
<tr>
<td>EHS20190419-05</td>
<td>STEP/SEMI S2 Working Group</td>
<td>to hold STEP/SEMI S2 in 2019 -&gt; OPEN</td>
</tr>
</tbody>
</table>

1 Welcome, Reminders, and Introductions
Moray Crawford (Hatsuta Seisakusho) 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: 01_SEMI Standards Required Elements_August2018_E+J

2 Review of Previous Meeting Minutes
The TC Chapter reviewed the minutes of the previous meeting.

Motion: To approve the previous meeting minutes as written.
By / 2nd: Hidetoshi Sakura (NuFlare Technology) / Tadamasa Tominaga (Murata Machinery)
Discussion: None
Vote: 6 in favor and 0 opposed. Motion passed.

Attachment: 02_20190419_EHS-Japan_MeetingMinutes_Final

3 Liaison Reports
3.1 JRSC Report
Hidetoshi Sakura (NuFlare Technology) reported for the JRSC that the previous JRSC meeting was held on April 19 at SEMI Japan office as reported in the previous meeting of this TC Chapter and the following items were reported.

- Planning Meeting to be held on August 30, with a lecture for Regulation update
- There was an action Item that SEMI Japan staff to ask SEMI HQ staff for the operating rules for Connected@semi.

3.2 GCS Report
Hidetoshi Sakura (NuFlare Technology) reported for the EHS GCS as follows. The details are provided at the Global Seismic Protection TF Report of this meeting.

- EHS GCS Approval Request for TFOF of Global Seismic Protection TF was sent out on June 24.
- All the members were in favor for the TFOF, so it was approved.

3.3 EHS North America TC Chapter
Supika Mashiro (Tokyo Electron) reported for the EHS North America TC Chapter as attached.

Attachment: 03_NA EHS TC Chapter Liaison report August 2019 v1
3.4 *EHS Taiwan TC Chapter*
Chie Yanagisawa (SEMI Japan) reported for the EHS Taiwan TC Chapter as attached.

**Attachment:** 04_20190628_TW_EHS TC Liaison Report v1.1

3.5 *SEMI Staff Report*
Chie Yanagisawa (SEMI Japan) gave the SEMI Staff Report. Of note:
- JRSC Topics
- SEMI Japan Email Newsletter
- SEMI Global Calendar of Events
- Global Standards Meeting Schedule
- 2019 Critical Dates for SEMI Standards Ballots
- A&R Ballot Review
- SEMI Standards Publications
- Regulations & Procedure Manual Changes

**Attachment:** 05_SEMI Staff Report 2019_0828_v1.0

4 *Ballot Review*
None

5 *Subcommittee and Task Force Reports*

5.1 *Global Seismic Protection Task Force*
Supika Mashiro (Tokyo Electron) reported for the TF as follows.
- Both NA and JA TC Chapters have agreed to merge their respective Seismic Protection TFs into a global TF at their TC Chapter meetings.
  - NA Seismic Protection TF was disbanded on April 4.
  - Japan Seismic Protection TF was disbanded on April 19.
- TFOF for Global Seismic Protection TF
  - Since TFOF of a Global TF needs the approval of the GCS, the TFOF was submitted to the GCS and approved on June 27, 2019 as reported at the GCS Report section of this meeting.
- TF leader(s) to be formally appointed for this TF. The proposal to be made at the New Business section of this meeting.
- It was intention of both Japan and NA that once the Global TF would be formed it should promote participation of the Seismic TF currently under the Taiwan TC Chapter to the Global TF

5.2 *S18 Revision Task Force*
Supika Mashiro (Tokyo Electron) reported for the task force there is no update.
There is a big gap between S18 and S30 and the TF needs to work for revision.
TF needs to address flammable silicon compounds defined in S18 that have energetic characteristics by themselves or as the byproducts since S30 specifically exclude them from its scope

5.3 S23 Revision Global Task Force
Joji Hoshi (Tokyo Electron) reported for the task force as follows.
  - Discussion focusing on the two items below for the ballot.
    - Non-refrigerated cooling water line
    - Hydrogen and natural gas for New energy conversion factor
  - Cycle for submission to be decided

5.4 SDRCM (S Documents REG-PG-SM Conformance Maintenance) Task Force
Supika Mashiro (Tokyo Electron) reported for the TF as follows.
- As the action item, EHS20190419-02, she checked if there should be any Standard for 5-Year Review and found no Standard.
- TF disbandment to be proposed at the New Business section of this meeting

5.5 STEP Planning Working Group
Kenji Sugihara (Panasonic) reported that the STEP/SEMI S2 for 2019 will be held on November 1 at SEMI Japan office.

6 Old Business
6.1 Project Period Review
Chie Yanagisawa (SEMI Japan) reported that all documents by the Japan TC Chapter passed and currently there is no active SNARF at this moment except for the following one

6.2 Five Year Review
The TC Chapter reviewed the list of EHS Standards documents and found no published in 2014 and 2015.

7 New Business
7.1 Leader(s) of Global Seismic Protection Task Force
Supika Mashiro (Tokyo Electron) addressed the committee on this topic. As mentioned at Global Seismic Protection TF Report section, the TF leader(s) should be formally appointed since the TF globalization was approved.
Motion: Appoint Supika Mashiro as Global Seismic Protection TF Leader representing Japan  
By / 2nd: Supika Mashiro (Tokyo Electron) / Hidetoshi Sakura (NuFlare Technology)  
Discussion: None  
Vote: 6 in favor and 0 opposed. **Motion passed.**

7.2 **Disbandment of SDRCM TF**
Supika Mashiro (Tokyo Electron) addressed the committee on this topic. As mentioned at SDRCM TF Report section of this meeting, there is no current Standards for 5-Year-Review. So, she proposed as follows.

Motion: Approve disbandment of SDRCM (S Documents REG-PG-SM Conformance Maintenance) Task Force  
By / 2nd: Supika Mashiro (Tokyo Electron) / Hidetoshi Sakura (NuFlare Technology)  
Discussion: None  
Vote: 6 in favor and 0 opposed. **Motion passed.**

8 **Action Item Review**

8.1 Open Action Items
8.1.1 EHS20190419-01: SEMI staff to check if there is any participation from RIKEN KEIKI, NEW COSMOS ELECTRIC and JAPAN PIONICS. -> Yes, there is at least one participating Japanese companies affiliate. CLOSE
8.1.2 EHS20190419-02: Supika Mashiro (Tokyo Electron) to check if there should be any Standard for 5-Year Review and, if not, then to propose discharge of the TF at its next TC Chapter meeting -> CLOSE
8.1.3 EHS20190419-03: Seismic Protection TF leaders to prepare for the revised TFOF -> CLOSE
8.1.4 EHS20190419-04: SEMI staff to forward it to the GCS for approval, after the TFOF draft is ready, with a message that the globalization is approved by the NA TC Chapter and the Japan TC Chapter at their meetings which are recorded in the meetings minutes. -> CLOSE
8.1.5 EHS20190419-05: STEP/SEMI S2 Working Group to hold STEP/SEMI S2 in 2019 -> OPEN

8.2 New Action Items
There is no new action item for this meeting.

9 **Next Meeting and Adjournment**
The next meeting is tentatively 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: Friday, December 13, 2019, <time: 13:00-17:00>
- Place: Conference Tower, Tokyo Big Sight, Tokyo, Japan
- During SEMICON Japan 2019

Having no further business, a motion was made to adjourn. Adjournment was at 17:00.
Respectfully submitted by:
Chie Yanagisawa
Manager
SEMI Japan
Phone: +81.3.3222.5863
Email: cyanagisawa@semi.org

Minutes tentatively approved by:

<table>
<thead>
<tr>
<th>Name</th>
<th>Date of Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supika Mashiro (Tokyo Electron), Co-chair</td>
<td>October 15, 2019</td>
</tr>
<tr>
<td>Hidetoshi Sakura (NuFlare Technology), Co-chair</td>
<td>August 30, 2019</td>
</tr>
<tr>
<td>Moray Crawford (Hatsuta Seisakusho), Co-chair</td>
<td>September 4, 2019</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_SEMI Standards Required Elements_August2018_E+J</td>
<td>04_20190628_TW_EHS TC Liaison Report v1.1</td>
</tr>
<tr>
<td>02_20190419_EHS-Japan_MeetingMinutes_final</td>
<td>05_SEMI Staff Report 2019_0828_v1.0</td>
</tr>
<tr>
<td>03_NA EHS TC Chapter Liaison report August 2019 v1</td>
<td></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.