Meeting Summary and Minutes
Taiwan Sustainable Manufacturing and EHS Standard Committee TC Meeting
March 31, 2017 (Fri), 14:00 - 16:00
11F-2, No. 1, Taiyuan 1st Street, Zhubei City, Hsinchu County, Taiwan

TC Chapter Announcements
Next TC Chapter Meeting (Tentative)
October 2017
SEMI Office, Hsinchu, Taiwan

Table 1

<table>
<thead>
<tr>
<th>Company</th>
<th>Last</th>
<th>First</th>
<th>Company</th>
<th>Last</th>
<th>First</th>
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</thead>
<tbody>
<tr>
<td>TSMC</td>
<td>Hsu</td>
<td>Fang-Ming</td>
<td>UMC</td>
<td>Li</td>
<td>Robert CC</td>
</tr>
<tr>
<td>Applied Materials</td>
<td>Yee</td>
<td>Long-ye</td>
<td>FTIS</td>
<td>Tang</td>
<td>Yi-Hua</td>
</tr>
<tr>
<td>BELFOR(Asia)</td>
<td>Wu</td>
<td>Bright</td>
<td>FTIS</td>
<td>Shen</td>
<td>Wendy</td>
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<tr>
<td>Innolux</td>
<td>Yang</td>
<td>Vincent</td>
<td>Willis Towers Waston</td>
<td>Yen</td>
<td>Tony</td>
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<tr>
<td>Linx Consulting</td>
<td>Huang</td>
<td>Jack</td>
<td>Willis Towers Waston</td>
<td>Hsiao</td>
<td>Aron</td>
</tr>
<tr>
<td>TUV Rheinland</td>
<td>Jow</td>
<td>Vincent N.C.</td>
<td>SAHTECH</td>
<td>Yu</td>
<td>Shuh Woei</td>
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Table 2 Leadership Changes

<table>
<thead>
<tr>
<th>WG/TF/SC/TC Name</th>
<th>Previous Leader</th>
<th>New Leader</th>
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</thead>
<tbody>
<tr>
<td>Equipment Safety TF</td>
<td>Eric Lin (Epistar)</td>
<td>Eliza Liu (Epistar)</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>
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Table 4 Ballot Results

<table>
<thead>
<tr>
<th>Document #</th>
<th>Document Title</th>
<th>Committee Action</th>
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<tbody>
<tr>
<td>#1</td>
<td>Passed</td>
<td></td>
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<tr>
<td>#2</td>
<td>Failed</td>
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</tbody>
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#1 Passed ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

#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>
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</table>

Table 6 Authorized Activities
Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.
1 Welcome, Reminders, and Introductions

Committee chair Dr. Shuh Woei Yu (SAHTECH) 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: SEMI Meeting Reminder.

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve previous meeting minutes
3 Liaison Reports

3.1 EHS NA TC Chapter
-- Dean reported for the EHS Europe TC Chapter. Of note:

Action Item: Document Review,
Attachment: EHS NA TC Liaison report 09062016.

3.2 EHS Japan TC Chapter
-- Dean reported for the EHS Japan TC Chapter. Of note:

Action Item: STEP/ SEMI S2 is held on November 22 at SEMI Japan Office,
Attachment: 2016.10.26 EHS Japan_TW_R0.1.

3.3 SEMI Staff Report
-- Dean gave the SEMI Staff Report. Of note:

- 2017 Sustainable Manufacturing Forum will be held on Sept. 13.
- SEMI Global 2017 Calendar of Events
- 2017 Critical Dates for SEMI Standards Ballots
- 2017 SEMI standards training sessions
  - Information Security Management for High Tech Manufacturing Seminar (Jan. 19)
  - Semiconductor Tool and Parts Decontamination – Team-based and Practice-based Learning (Advanced) (May 5)

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.

- None

5 Subcommittee and Task Force Reports

5.1 Equipment Safety TF

- Eric Lin (Epistar) quit from Epistar. Eliza Liu (Epistar) is the new leader

5.2 Environmental Sustainability TF Report

- Introduction of new committee member--FITS

5.3 Seismic TF Report

None
6 Old Business

6.1 Discuss with HQ about the S2 for chemical exposure and report in next TC meeting.

- Feedback from John Visty, who is the leader of the NA Chemical Exposure Task Force. (Attachment 6-1)
- SEMI S2 Revision Related to Chemical Exposure was approved (Attachment 6-2)
- SEMI Feedback to the Parties of the Stockholm Convention (Attachment 6-3)

7 New Business

7.1 STEP Training course: Date: 5th May, Topic: Semiconductor Tool and Parts Decontamination – Team-based and Practice-based Learning (Advanced)

7.2 Introduction of Water and Carbon Footprint by FITS

7.3 Plan 2017 Sustainable Manufacturing Forum

7.4 Jack Huang (Linx Consulting) suggested to invite BSI and EORM as speakers for 2017 Sustainable Manufacturing Forum.

7.5 Tony Yen (Willis Towers Watson) proposed to hold a seminar and the topic is related to “Safety Culture and Risk Management for Sustainable Manufacturing”.

7.6 Yi-Hua Tang (FTIS) will provide the Sustainable Development Goals (SDGs) of United Nations Commission on Sustainable Development

7.7 Invite Japan Seismic TC to share the experience on Seismic

Action Item:

- SEMI Taiwan will hold a seminar on 15th June for the Water footprint and Carbon footprint
- Dean will contact with Jack Huang and discuss about the speakers from BSI and EORM topic
- Dean will contact with Tony Yen to discuss the seminar about “Safety Culture and Risk Management for Sustainable Manufacturing”.
- SEMI Staff will prepare the eDM and invitation letter for the Sustainable Manufacturing Forum
- Dean will invite Japan Seismic TF to share experience on Seismic

8 Next Meeting and Adjournment

The next meeting is scheduled for October 2017 (Tentative) at SEMI Taiwan office. See http://www.semi.org/en/events for the current list of meeting schedules.

Having no further business, a motion was made to adjourn. Adjournment was at 16:00.

Respectfully submitted by:

Dean Chang
Senior Executive Consultant
SEMI Taiwan
Phone: + 886 3 560 1777 #801
Email: dchang@semi.org
Minutes tentatively approved by:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Date approved</th>
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<tbody>
<tr>
<td>Shuh Woei Yu (Sahtech), Co-chair</td>
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<tr>
<td>&lt;Name&gt; (&lt;Company&gt;), Co-chair</td>
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Table 13 Index of Available Attachments#1

<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>1. SEMI Meeting Reminder</td>
<td>6-1 Feedback from NA Chemical Exposure Task Force</td>
</tr>
<tr>
<td>2. EHS TC Meeting Minutes_20161026</td>
<td>6-2 SEMI S2 Revision Related to Chemical Exposure Approved</td>
</tr>
<tr>
<td>3-1. EHS NA TC Liaison report 09062016</td>
<td>6-3 SEMI Feedback to Stockholm Convention - Primary Materials (February 24, 2017)</td>
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<td>3-2_2016.10.26 EHS Japan_TW_R0.1</td>
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#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.