TC Chapter Announcements

Next TC Chapter Meeting

Friday, October 21, 2016, 1:30 p.m. - 5:00 p.m.
SEMI Japan office, Tokyo, Japan

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Takayuki Nishimura (SCREEN Semiconductor Solutions), Mitsuhiro Matsuda (Hitachi Kokusai Electric)
SEMI Staff: Chie Yanagisawa

<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>Hitachi High-Technologies</td>
<td>Toyoshima</td>
<td>Yuko</td>
<td>Tokyo Electron</td>
<td>Asakawa</td>
<td>Terry</td>
</tr>
<tr>
<td>Hitachi Kokusai Electric</td>
<td>Matsuda</td>
<td>Mitsuhiro</td>
<td>Tokyo Electron</td>
<td>Mochizuki</td>
<td>Tadashi</td>
</tr>
<tr>
<td>Lasertec</td>
<td>Yano</td>
<td>Shingo</td>
<td>Tokyo Electron</td>
<td>Murata</td>
<td>Naoko</td>
</tr>
<tr>
<td>Murata Machinery</td>
<td>Imoto</td>
<td>Shinichiro</td>
<td>Tokyo Seimitsu</td>
<td>Sasaki</td>
<td>Mie</td>
</tr>
<tr>
<td>Nippon Pulse Motor</td>
<td>Terasaki</td>
<td>Takashi</td>
<td>Yokogawa Solution Service</td>
<td>Nakagawa</td>
<td>Takashi</td>
</tr>
<tr>
<td>SCREEN Semiconductor Solutions</td>
<td>Nishimura</td>
<td>Takayuki</td>
<td>Consultant</td>
<td>Sakamoto</td>
<td>Mitch</td>
</tr>
<tr>
<td>SCREEN Semiconductor Solutions</td>
<td>Takasaki</td>
<td>Yoshihisa</td>
<td>SEMI Japan</td>
<td>Yanagisawa</td>
<td>Chie</td>
</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>None</td>
<td></td>
<td></td>
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</tbody>
</table>

Table 3 Ballot Results

<table>
<thead>
<tr>
<th>Document #</th>
<th>Document Title</th>
<th>Committee Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>5601A</td>
<td>New Standard: Specification for Wafer Job Management (WJM)</td>
<td>Passed with technical changes and editorial changes Ratification Ballot to be issued in Cycle 6-2016</td>
</tr>
</tbody>
</table>

NOTE 1: 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 4 Authorized Activities

<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>SC/TF/WG</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>5615</td>
<td>SNARF</td>
<td>JA I&amp;CC</td>
<td>Revision to SEMI E98-0309 “Provisional Specification for Object-Based Equipment Model” and SEMI E98.1-1102 (Reapproved 0309) “Provisional Specification for SECS-II Protocol for the Object-Based Equipment Model”</td>
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<td>SNARF</td>
<td>JA I&amp;CC</td>
<td>Reapproval of SEMI E54.21-1110 &quot;Specification for Sensor Actuator Network for MOTIONNET® Communication”</td>
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<td>6035</td>
<td>SNARF</td>
<td>JA I&amp;CC</td>
<td>Line item Revision to SEMI E91-0600 (Reapproved 1109) “Specification for Prober Specific Equipment Model (PSEM)”</td>
</tr>
<tr>
<td>6036</td>
<td>SNARF</td>
<td></td>
<td>Reapproval of SEMI E153-0310 “Specification for AMHS SEM (AMHS SEM)”</td>
</tr>
</tbody>
</table>

NOTE 2: 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 5 Authorized Ballots

<table>
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Table 6 New Action Items

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<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>20160616-01</td>
<td>SEMI Staff</td>
<td>To send a request of SEMI HQ staff for modifying the format of Table 3 “Ballot Results” as the explanatory part above the table is moved to the table footnote.</td>
</tr>
<tr>
<td>20160616-02</td>
<td>Mitsuhiro Matsuda (Hitachi Kokusai Electric)</td>
<td>To send out the message to the I&amp;C GCS members that the announcement of the I&amp;C Taiwan TC Chapter meeting held on April 8, 2016 was not made but the TC Chapter meeting was written in the Taiwan liaison report.</td>
</tr>
<tr>
<td>20160616-03</td>
<td>SEMI staff</td>
<td>To send a request of SEMI HQ staff and SEMI Taiwan staff both for investigating the following point (1) and for reporting the result of it at the next NARSC meeting and the I&amp;C GCS meeting. And SEMI staff to send a request of SEMI HQ staff for stating whether or not a TC Chapter meeting is valid with no announcement at the next NARSC meeting and the I&amp;C GCS meeting. (1) Whether or not the email announcement of the I&amp;C Taiwan TC Chapter meeting held on April 8, 2016 were sent out to each TC member of I&amp;C Global Technical Committee.</td>
</tr>
</tbody>
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I&C Japan TC Chapter
Meeting Minutes

1 Welcome, Reminders, and Introductions

Takayuki Nishimura (SCREEN Semiconductor Solutions) 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 TC Chapter reviewed the minutes of the previous meeting held on March 18, 2016.

Motion: To approve the minutes of the previous meeting as written.

By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Mitch Sakamoto (Consultant)

Discussion: None

Vote: 11 in favor and 0 opposed. Motion Passed.

Terry Asakawa (Tokyo Electron) pointed out that the explanatory part above the table of Table 3 should be moved to table footnote of the TC Chapter meeting minutes format as following.

from

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NOTE: 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 force for re-work and re-balloting.
Action Item: 20160616-01, SEMI Staff to send a request of SEMI HQ staff for modifying the format of Table 3 “Ballot Results” as the explanatory part above the table is moved to the table footnote.

3 Liaison Reports

3.1 Information & Control Europe TC Chapter
Chie Yanagisawa (SEMI Japan) reported for the Europe TC Chapter that there was no update.

3.2 Information & Control Korea TC Chapter
Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for the Korea TC Chapter as attached.
Attachment: 01_KR_I&C_liaison_June_r1

3.3 Information & Control North America TC Chapter
Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for the North America TC Chapter as attached.
Attachment: 02_NA_I&C_Liaison_Report_June_2016_v1.2

3.4 Information & Control Taiwan TC Chapter
Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for the Taiwan TC Chapter as attached.
He asked the attendees of this meeting if any of them received the email announcement of the I&C Taiwan TC Chapter meeting held on April 8, 2016 and no one except for Chie Yanagisawa (SEMI Japan) received it.
The I&C Japan TC Chapter confirmed that the I&C Taiwan TC Chapter meeting announcement did not reach to the attendees.
Action Item 2: 20160616-02, Mitsuhiro Matsuda (Hitachi Kokusai Electric) to send out the message to the I&C GCS members that the announcement of the I&C Taiwan TC Chapter meeting held on April 8, 2016 was not made but the TC Chapter meeting was written in the Taiwan liaison report.

Action Item: 20160616-03, SEMI staff to send a request of SEMI HQ staff and SEMI Taiwan staff both for investigating the following point (1) and for reporting the result of it at the next NARSC meeting and the I&C GCS meeting. And SEMI staff to send a request of SEMI HQ staff for stating whether or not a TC Chapter meeting is valid with no announcement at the next NARSC meeting and the I&C GCS meeting.
(1) Whether or not the email announcement of the I&C Taiwan TC Chapter meeting held on April 8, 2016 were sent out to each TC member of I&C Global Technical Committee.
Attachment: 03_Taiwan_I&C_Standard_Committee_Liaison_Report_June_2016_v2.2

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

- SEMI Global 2016 Calendar of Events
- SEMICON West 2016 Standards Meetings
- Global Standards Meeting Schedule
- 2016 Critical Dates for SEMI Standards Ballots
- A&R Ballot Review
4 Ballot Review

NOTE 3: 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.

The voting results of Ballot #5601A were reviewed at this meeting and the committee action is listed in the “Table 3 Ballot Results”. The details of ballot review are found in the attachments.
Ratification Ballot R5601A will be submitted and distributed in Cycle 6-2016.
Attachment: 05_5601A_LetterBallotReviewSheet_for_ProceduralReview_2016_0616a

5 Subcommittee and Task Force Reports

5.1 Equipment Information System Security (EISS) TF
Mitch Sakamoto (Consultant) reported for the EISS Task Force as attached. This report contained information on the following items
- Draft SNARF for Access Control
- Proposal from GEM300 TF to define Access Control in GEM300A architecture
Attachment: 06_EISS_TF_Report_2016_06_16-01 and 07_SNARF_for_EISS_AC-01

5.2 Fiducial Mark Interoperability TF
Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for Fiducial Mark Interoperability Task Force as attached.
Attachment: 08_20160615FMI-TF-Report_r1

5.3 GEM300 TF
Takasaki Yoshihisa (SCREEN Semiconductor Solutions) reported for Japan GEM300 Task Force as attached. This report contained information on the following items.
- Ballot #5601A passed at this TC Chapter and the Ratification Ballot to be issued.
- Proposal of new activity
  - TF consider to propose new standard “CUARAM: Centralized User Authentication & Role Authorization Management”
  - TF consider to propose revision ballot of E170.1, E171.1 and E5
- Proposal of SNARF revision
  - TF propose revision of SNARF, “Revision to E170-0416”
Attachment: 09_JA_GEM300TF_Report_20160616_R1
5.4 Japan I&C Maintenance TF
Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for Japan I&C Maintenance Task Force as attached. This report contained information on the following items:

- #5615: Revision to E98 and E98.1 (OBEM) to be discontinued
- 5 year review
  - E153 (AMHS SESM), SNARF for Reapproval and the ballot submission to be proposed
  - E99 and E99.1 (Carrier ID R/W), SNARF for line item revision and the ballot submission to be proposed
  - E107, no action to be made
  - E54.21 (MOTIONNET®), SNARF for Reapproval and the ballot submission to be proposed
  - E91 (PSEM), SNARF for line item revision and the ballot submission to be proposed

Attachment: 10_20160616JPMaintenanceTF-Report_r1

6 Old Business

6.1 5 Year Review Check
The TC Chapter found no document to be additionally reviewed for 5 Year Review Check.

6.2 SNARF Project Period Check
Mitsuhiro Matsuda (Hitachi Kokusai Electric), Japan I&C Maintenance TF leader, addressed the topic on the SNARF #5615 and made the following proposal.

Motion: To approve withdrawal of SNARF #5615: Revision to SEMI E98-0309 “Provisional Specification for Object-Based Equipment Model” and SEMI E98.1-1102 (Reapproved 0309) “Provisional Specification for SECS-II Protocol for the Object-Based Equipment Model”

By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)

Discussion: None

Vote: 8 in favor and 0 opposed. Motion passed.

6.3 Report for STEP/GEM300A
Chie Yanagisawa (SEMI Japan) reported for STEP/GEM300A as attached. This report contained information on the following items and the results of questionnaire for participants.

- SEMI E170 (SFORMS) and SEMI E171 (PCL) were explained
- Held on May 20, 2016 at SEMI Japan office
- Chairs: SCREEN Semiconductor Solutions and Hitachi Kokusai Electric,
- Speakers: Toshiba, SCREEN Semiconductor Solutions and Hitachi High Technologies
- Attendees: 36 people from 28 companies

Attachment: 11_20160520_STEP-GEM300A_report_r1.0
7 New Business

7.1 Proposal of Reapproval of SEMI E54.21-1110 "Specification for Sensor Actuator Network for Motionnet Communication"

Mitsuhiro Matsuda (Hitachi Kokusai Electric) addressed the committee on SNARF and ballot submission of this document. He proposed as following.

Motion: To approve the SNARF for Reapproval of SEMI E54.21-1110 “Specification for Sensor Actuator Network for MOTIONNET® Communication”

By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)

Discussion: None

Vote: 9 in favor and 0 opposed. Motion passed.

Motion: To approve the ballot submission for Cycle 7

By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Tadashi Mochizuki (Tokyo Electron)

Discussion: None

Vote: 9 in favor and 0 opposed. Motion passed.

7.2 Proposal of Line Item Revision to SEMI E91-0600 (Reapproved 1109) “Specification for Prober Specific Equipment Model (PSEM)”

Tadashi Mochizuki (Tokyo Electron) addressed the committee on SNARF and ballot submission of this document. He proposed as following.

Motion: To approve the SNARF for Line Item Revision to SEMI E91-0600 (Reapproved 1109) “Specification for Prober Specific Equipment Model (PSEM)”

By / 2nd: Tadashi Mochizuki (Tokyo Electron) / Mitsuhiro Matsuda (Hitachi Kokusai Electric)

Discussion: None

Vote: 8 in favor and 0 opposed. Motion passed.

Motion: To approve the ballot submission for Cycle 7

By / 2nd: Tadashi Mochizuki (Tokyo Electron) / Mitsuhiro Matsuda (Hitachi Kokusai Electric)

Discussion: None

Vote: 9 in favor and 0 opposed. Motion passed.


Mitsuhiro Matsuda (Hitachi Kokusai Electric) addressed the committee on SNARF and ballot submission of this document. He proposed as following.


By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)

Discussion: None

Vote: 9 in favor and 0 opposed. Motion passed.
Motion: To approve the ballot submission for Cycle 7  
By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)  
Discussion: None  
Vote: 9 in favor and 0 opposed. Motion passed.

7.4 Proposal of Reapproval of SEMI E153-0310 “Specification for AMHS SEM (AMHS SEM)”

Mitsuhiro Matsuda (Hitachi Kokusai Electric) addressed the committee on SNARF and ballot submission of this document. He proposed as following.

Motion: To approve the SNARF for Reapproval of SEMI E153-0310 “Specification for AMHS SEM (AMHS SEM)”  
By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)  
Discussion: None  
Vote: 9 in favor and 0 opposed. Motion passed.

Motion: To approve the ballot submission Cycle 7  
By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)  
Discussion: None  
Vote: 9 in favor and 0 opposed. Motion passed.


Yoshihisa Takasaki (SCREEN Semiconductor Solutions) addressed the committee on SNARF and ballot submission of this document. He proposed as following.

Motion: To approve the revision to SNARF#5973: Line Item Revision to SEMI E170-0416 “Specification for Secured Foundation of Recipe Management System (SFORMS)” and SEMI E170.1-0416 “Specification for SECS-II Protocol for Secured Foundation of Recipe Management System”  
By / 2nd: Yoshihisa Takasaki (SCREEN Semiconductor Solutions) / Naoko Murata (Tokyo Electron)  
Discussion: None  
Vote: 9 in favor and 0 opposed. Motion passed.

Motion: To approve the ballot submission for Cycle 7/8  
By / 2nd: Yoshihisa Takasaki (SCREEN Semiconductor Solutions) / Naoko Murata (Tokyo Electron)  
Discussion: None  
Vote: 9 in favor and 0 opposed. Motion passed.

7.6 Numbering issue of SEMI E30-0416

Mitsuhiro Matsuda (Hitachi Kokusai Electric) addressed the committee on this topic.

SEMI E30-0416 contains not only the revision proposed by Ballot #5481 but also the editorial change of numbering with “Referenced Standards and Documents” section. It was on § 1.5 in SEMI E30-0611 and other superseded versions while it is now on § 2 in SEMI E30-0416, consequently, all the section numbers after this section have been changed. Mitsuhiro Matsuda (Hitachi Kokusai Electric) pointed out that SEMI E30 with a section number was often referenced in the other SEMI Standards by the other technical committees such as SEMI PV2 and users of those standards usually decided their specifications based on those referenced Standards numbers with sections (ex. SEMI E30, § 7). The TC Chapter recognized this change of section numbering had a negative effect on those Standards users and decided to require SEMI Standards Publication to restore the section numbering.
**Action Item:** 20160616-04, SEMI Staff to convey the message that the I&C Japan TC Chapter required SEMI Standards Publication to restore the section numbering of SEMI E30.

**Action Item:** 20160616-05, Mitsuhiro Matsuda (Hitachi Kokusai Electric) to take an action to share the issue of the section number change of SEMI E30-0416 with I&C GCS members.

### 8 Next Meeting and Adjournment

The next meeting is scheduled for Friday, October 21, 1:30 p.m. – 5:00 p.m. at Japan Standards Fall 2016 Meetings, at SEMI Japan office. See [http://www.semi.org/en/events](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 6:00 p.m.
Respectfully submitted by:
Chie Yanagisawa
Manager
SEMI Japan
Phone: +81.3.3222.5863
Email: cyanagisawa@semi.org

Minutes tentatively approved by:

Takayuki Nishimura (SCREEN Semiconductor Solutions), Co-chair July 7, 2016
Mitsuhiro Matsuda (Hitachi Kokusai Electric), Co-chair July 6, 2016

Table 8 Index of Available Attachments*1

<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>01_KR_I&amp;C_liaison_June_r1</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.