



# Physical Interfaces & Carriers Japan TC Chapter

## Meeting Summary and Minutes

Japan Standards Winter 2017 Meetings in conjunction with SEMICON Japan 2017

Wednesday, December 13, 2017, 14:00 – 17:00

Conference Tower, Tokyo Big Sight, Tokyo, Japan

TC Chapter Announcements

Next TC Chapter Meeting

Thursday, April 26, 2018 14:00–17:00

SEMI Japan office, Tokyo, Japan

### Table 1 Meeting Attendees

**Co-Chairs:** Tsuyoshi Nagashima (Mirial), Kenji Yamagata (DAIFUKU), Noriyoshi Toyoda (Hirata Corporation)

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

| <i>Company</i>            | <i>Last</i> | <i>First</i> | <i>Company</i>        | <i>Last</i> | <i>First</i> |
|---------------------------|-------------|--------------|-----------------------|-------------|--------------|
| Acteon NEXT               | Komatsu     | Shoji        | Mirial                | Nagashima   | Tsuyoshi     |
| DAIFUKU                   | Suzuki      | Tomoko       | Shin-Etsu Polymer     | Shida       | Hiroyuki     |
| DAIFUKU                   | Yamagata    | Kenji        | Sinfonia Technologies | Otani       | Mikio        |
| Hirata Corporation        | Toyoda      | Noriyoshi    | Sinfonia Technologies | Taniyama    | Yasushi      |
| Hitachi High-Technologies | Ikota       | Masami       | SUMCO                 | Nakai       | Tetsuya      |
| Hitachi Kokusai Electric  | Matsuda     | Mitsuhiro    | TDK                   | Kanashiro   | Kiyoshi      |
| JEOL                      | Asayama     | Kyoichiro    | TDK                   | Okabe       | Tsutomu      |
| Kumai Consulting          | Kumai       | Sadao        | Yamamoto Planning     | Yamamoto    | Makoto       |
| Murata Machinery          | Ito         | Yasuhisa     |                       |             |              |
| Murata Machinery          | Tominaga    | Tadamasa     | SEMI Japan            | Yanagisawa  | Chie         |

### Table 2 Leadership Changes

| <i>WG/TF/SC/TC Name</i> | <i>Previous Leader</i> | <i>New Leader</i> |
|-------------------------|------------------------|-------------------|
| None                    |                        |                   |

### Table 3 Committee Structure Changes

| <i>Previous WG/TF/SC Name</i> | <i>New WG/TF/SC Name or Status Change</i> |
|-------------------------------|---|
| None                          |   |

### Table 4 Ballot Results

| <i>Document #</i> | <i>Document Title</i> | <i>Committee Action</i> |
|-------------------|-----------------------|-------------------------|
| None              |                       |                         |

**Table 5 Activities Approved by the GCS prior to the Originating TC Chapter meeting**

| #    | Type | SC/TF/WG | Details |
|------|------|----------|---------|
| None |      |          |         |

**Table 6 Authorized Activities**

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

| #    | SC/TF/WG | Details |
|------|----------|---------|
| None |          |         |

**Table 7 Authorized Ballots**

| #    | When | TF | Details |
|------|------|----|---------|
| None |      |    |         |

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

| #    | TF | Title | Expiration Date |
|------|----|-------|-----------------|
| None |    |       |                 |

**Table 9 SNARF(s) Abolished**

| #    | TF | Title |
|------|----|-------|
| None |    |       |

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

| Standard Designation | Title |
|----------------------|-------|
| None                 |       |

**Table 11 New Action Items**

| Item # | Assigned to | Details |
|--------|-------------|---------|
| None   |             |         |

**Table 12 Previous Meeting Action Items**

| Item #     | Assigned to      | Details  |
|------------|------------------|--|
| 20170726-1 | SEMI Japan staff | To make announcement the TFOF for Japan Electron Microscopy Workflow liaison Task Force is approved and ask for participation from the related companies.-> <b>CLOSE</b>   |
| 20170726-2 | SEMI Japan staff | To make announcement to the TF leaders of Electron Microscopy Workflow Task Force under the PI&C North America TC Chapter that Japan Electron Microscopy Workflow liaison Task Force is formed under the PI&C Japan TC Chapter and ask for providing information of North America TF activity. -> <b>CLOSE</b> |

## 1 Welcome, Reminders, and Introductions

Tsuyoshi Nagashima (Miraial) 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\_Required\_Elements\_Reg\_20150327\_E+J

## 2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

|                             |  |
|-----------------------------|--|
| <b>Motion:</b>              | Approve the previous meeting minutes as written                |
| <b>By / 2<sup>nd</sup>:</b> | Kenji Yamagata (DAIFUKU) / Makoto Yamamoto (Yamamoto Planning) |
| <b>Discussion:</b>          | None   |
| <b>Vote:</b>                | 11 in favor and 0 opposed. <b>Motion passed.</b>               |

## 3 Liaison Reports

### 3.1 *Physical Interfaces & Carriers Europe TC Chapter*

Chie Yanagisawa (SEMI Japan) reported for the Physical Interfaces & Carriers Europe TC Chapter that there is no update.

### 3.2 *North America Japan TC Chapter*

Kenji Yamagata (Daifuku) reported for the North America TC Chapter. Of note:

- Task Force Reports
  - Electron Microscopy Workflow TF
    - Revision to TFOF
    - Authorized new SNARF
      - 6311: New Standard, Specification for TEM Lamella Carrier Used in Electron Microscopy Workflows
    - Ongoing TF teleconference meetings (please contact Laura Nguyen or Troy Morrison, troy.morrison@fei.com, to be added to distribution list)
      - December 7, 2017 (9:00-10:00 PST) / January 11, 2018 (15:00-16:30 PST)

**Attachment:** 02\_NA PIC Liaison Report Nov2017 v1

### 3.3 *SEMI Staff Report*

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

- SEMI Global 2017/2018 Calendar of Events
- SEMICON Japan Overview
- Global Standards Meeting Schedule
- SEMICON Japan Standards Meetings
- 2017/2018 Critical Dates for SEMI Standards Ballots

- A&R Ballot Review
- SEMI Standards Publications
- JRSC Topics

**Attachment:** 03\_SEMI Staff Report 20171212c

#### 4 Ballot Review

None

#### 5 Subcommittee and Task Force Reports

##### 5.1 *Global PIC Standards Maintenance TF*

Shoji Komatsu (Acteon NEXT) reported for the Global PIC Standards Maintenance Task Force that there is no update.

##### 5.2 *Japan Electron Microscopy (EM) Workflow liaison TF*

Kyoichiro Asayama (JEOL), the task force co-leader, reported as attached. Of note:

- The current TF members in Japan are introduced.
- After the TFOFs of them approved in summer 2017, in order to discuss for drafting a SNARF the EM Workflow TF in North America held teleconferences monthly. Japan EM Workflow liaison TF members joined them to make comments on the draft SNARF.
- The SNARF was approved at the PI&C North America TC Chapter meeting during the NA Fall 2017 Meetings
- Main items for standardization of the SNARF
  - Physical shape, dimensions, tolerance etc.
  - Places that can or can't be handling for automation.
  - Material of grid not included in standardization item.
  - Change bar code to “carrier ID”
    - Determine the place to describe the “carrier ID”

**Attachment:** 04\_171213\_PIC EM workflow Liaison TF report

##### 5.3 *(Japan Chapter of Silicon Wafer TC) JA Shipping Box TF*

Shoji Komatsu (Acteon NEXT) reported for the JA Shipping Box Task Force under the Silicon Wafers Japan TC Chapter as follows.

- TF is working on Ballot 6292 (Revision to SEMI M31).
  - Prepared for the ballot review at the Silicon Wafer Japan TC Chapter meeting to be held on December 14, 2017
- The next meeting will be decided.

**Attachment:** 05\_JA Shipping Box TF Minutes - 2017\_12\_13



#### 5.4 (Japan Chapter of Silicon Wafer TC / NA Chapter of PI&C TC) Int'l 450mm Shipping Box

Shoji Komatsu (Acteon NEXT) reported for the International 450 mm Shipping Box TF that there is no activity of the TF.

### 6 Old Business

None

### 7 New Business

#### 7.1 Standardization for Mechanical Interfaces of Carriers for 3D Packaging

Hiroyuki Shida (Shin-Etsu Polymer) introduce the idea to standardize mechanical interfaces of carriers for 3D Packaging as the attachment. He intended to introduce the idea and get this topic discussed at the 3D Packaging & Integration Steering Group to be held on December 15, 2017 during SEMICON Japan 2017. He added he will propose a TFOF for this activity at the 3D Packaging & Integration Japan TC Chapter meeting to be held on February 5, 2018.

**Attachment:** 06\_171215\_Standardizing\_Panel\_FOUP\_r2

### 8 Next Meeting and Adjournment

The next meeting is scheduled as follows. See <http://www.semi.org/en/events> for the current list of meeting schedules.

Thursday, April 26, 2018

14:00-17:00

SEMI Japan office, Tokyo

Having no further business, a motion was made to adjourn. Adjournment was at 17:00.



Respectfully submitted by:

Chie Yanagisawa

Manager

SEMI Japan

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Email: [cyanagisawa@semi.org](mailto:cyanagisawa@semi.org)

Minutes tentatively approved by:

|   |                   |
|---|-------------------|
| Tsuyoshi Nagashima (Miraial), Co-chair          | December 14, 2017 |
| Kenji Yamagata (Daifuku), Co-chair              | December 14, 2017 |
| Noriyoshi Toyoda (Hirata Corporation), Co-chair | December 14, 2017 |

**Table 13 Index of Available Attachments#1**

| <i>Title</i>                          | <i>Title</i>                                |
|---------------------------------------|---|
| 01_Required_Elements_Reg_20150327_E+J | 04_171213_PIC EM workflow Liaison TF report |
| 02_NA PIC Liaison Report Nov2017 v1   | 05_JA Shipping Box TF Minutes - 2017_12_13  |
| 03_SEMI Staff Report 20171212c        | 06_171215_Standardizing_Panel_FOUP_r2       |

#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](http://www.semi.org). For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.