

## Japan Physical Interfaces & Carriers Committee Meeting Summary and Minutes

SEMICON Japan 2013  
December 6, 2013, 09:00a.m. – 12:00a.m.  
International Conference Hall, Makuhari Messe, Chiba, Japan

### Next Committee Meeting

April 18, 2014, 13:30p.m. – 17:30p.m. Japan Standard Time  
Japan Standards Spring Meetings 2014, SEMI Japan Office, Tokyo, Japan

### Committee Announcements (optional)

None

### Table 1 Meeting Attendees

**Co-Chairs:** Tsuyoshi Nagashima (Miraial), Tsutomu Okabe (TDK), Kenji Yamagata (Daifuku)

**SEMI Staff:** Hirofumi Kanno

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Miraial	Nagashima	Tsuyoshi	TDK	Okabe	Tsutomu
Acteon	Komatsu	Shoji	Daifuku	Yamagata	Kenji
Shimizu Consulting	Shimizu	Yasuhiro	Murata Machinery	Murata	Masanao
Sinfonia Technology	Taniyama	Yasushi	Tokyo Electron	Mashiro	Supika
Kumai Consulting	Kumai	Sadao	Hitachi High-Technologies	Sato	Hidetoshi
Sinfonia Technology	Otani	Mikio	SUMCO	Nakai	Tetsuya
Miraial	Igeta	Luke	Dainichi Shoji	Ohyama	Koji
Tokyo Electron	Kobayashi	Sensho	Dainippon Screen Mfg.	Takasaki	Yoshihisa
Daifuku	Shibata	Suguru			

### Table 2 Leadership Changes

None

### Table 3 Authorized Ballots (or move to Section 7, New Business)

#	When	SC/TF/WG	Details
5626	Cycle 1, 2014	450mm International PIC Task Force	Revision to SEMI E154-0713, Mechanical Interface Specification for 450 mm Load Port AND to SEMI E166-0513, Specification for 450 mm Cluster Module Interface: Mechanical Interface and Transport Standard for addition of EFEM Pocket ➔ The ballot document is going to be adjudicated at the next Japan PI&C Committee meeting during Japan Standards Spring Meetings 2014.
5524	Cycle 2, 2014	450mm AMHS Task Force	Revisions to SEMI E156-0710, Mechanical Specification for 450 mm AMHS Stocker to Transport Interface, with title change to Mechanical Interface Specification for 450 mm AMHS Stocker to Transport Equipment ➔ The ballot document is going to be adjudicated at the next Japan PI&C Committee meeting during Japan Standards Spring Meetings 2014.

### Table 4 Authorized Activities (or move to Section 7, New Business)

#	Type	SC/TF/WG	Details
5626	SNARF	450 mm International PIC Task Force	Revision to SEMI E154-0713, Mechanical Interface Specification for 450 mm Load Port AND to SEMI E166-0513, Specification for 450 mm Cluster Module Interface: Mechanical Interface and Transport Standard for addition of EFEM Pocket ➔ Revised (extended the scope to include correction of Table1) SNARF was approved.

**Table 4 Authorized Activities (or move to Section 7, New Business)**

#	Type	SC/TF/WG	Details
TBA	SNARF	450 mm International PIC Task Force	Revision to SEMI AUX023-1113, Overview Guide to SEMI Standards for 450mm

Note: SNARFs and TFOFs are available for review on the SEMI Web site at:  
<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF>

**Table 5 New Action Items (or move to Section 8, Action Item Review)**

Item #	Assigned to	Details
131206-1	SEMI Staff	Since a check box for Revision to an existing Auxiliary Information is missing in the SNARF form, Staff will input this issue to the Regulation Sub-Committee.

**Table 6 Previous Meeting Actions Items (or move to Section 8, Action item Review)**

Item #	Assigned to	Details
130606-1	Supika Mashiro (Tokyo Electron)	Supika Mashiro to ask the EHS Committee for feedback about the document activity of Specification for Signal Tower for 450mm AMHS through PI&C Liaison report to the EHS Committee. → CLOSED. Since the Task Force decided not to include descriptions for Signal Tower on the initial ballot, there was no need to ask EHS Committee anymore.
130904-1	Shoji Komatsu (Acteon)	For the approved charter of the Japan PIC Committee, Shoji Komatsu and Larry Hartsough review the editorial changes indicated in discussion during the Japan PIC Committee meeting on September 4, 2013. → OPEN. The modified PIC Charter was sent to North America PIC Committee, it however is not sure whether decisions were made or not. As an additional report, there was discussion in the Regulation Sub-Committee that it may be necessary to have ISC approval for this matter depending on the size of changes.

## 1 Welcome, Reminders, and Introductions

Tsuyoshi Nagashima (Miraial) called the meeting to order at 9:00a.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 committee reviewed the minutes of the previous meeting.

**Motion:** Approve the minutes of the previous meeting  
**By / 2<sup>nd</sup>:** Shoji Komatsu (Acteon) / Sadao Kumai (Kumai Consulting)  
**Discussion:** None  
**Vote:** 12:0

## 3 Liaison Reports

### 3.1 Europe Equipment Automation Committee

Hirofumi Kanno (SEMI) reported for the Europe Equipment Automation Committee. Of note:

- Leadership

- Alfred Honold (InReCon)
- Lothar Pfitzner (Fraunhofer IISB)
- Frank Petzold (Trustec) - NEW
- Committee Organization
- Meeting Information
  - Last Meeting: Oct 9, 2013 – SEMICON Europa
  - Next Meeting: Oct 2014 – SEMICON Europa
- Activity Highlights
  - SEMI E48-1101 - Specification for SMIF Indexer Volume Requirement being revised

**Attachment:** 01, EA Liaison Report\_Oct\_2013\_v1

### 3.2 *North America Japan PI&C Committee*

Hirofumi Kanno (SEMI) reported for the Japan PI&C Committee. Of note:

- Leadership
- Organization Chart
- Meeting Information
- Ballot Results
- New Activities
- Current/Upcoming Ballots
- Task Force Reports
- Next Meeting Schedule

**Attachment:** 02, NA PIC Report Dec 2013 MT

### 3.3 *SEMI Staff Report*

Hirofumi Kanno (SEMI) gave the SEMI Staff Report. Of note:

- Global SEMI Events
- Global Standards Meetings Schedule
- Ballot Critical Dates
- Publication Update
- SEMICON Japan 2013
- Contact Information

**Attachment:** 03, 4.0\_SEMI Staff Report 2013 Dec.\_R0.1

## 4 **Subcommittee & Task Force Reports**

### 4.1 Global PI&C Standards Maintenance Task Force

Shoji Komatsu (Acteon) reported no activity for the Global PI&C Standards Maintenance Task Force.

#### 4.2 450mm International PI&C Task Force

Shoji Komatsu (Acteon) reported for the 450mm International PI&C Task Force.

**Motion:** To revise (extended the scope to include correction of Table1 ) SNARF of Doc.#5626  
**By / 2<sup>nd</sup>:** Shoji Komatsu (Acteon), Supika Mashiro (Tokyo Electron)  
**Discussion:** None  
**Vote:** 12:0

**Motion:** To approve a line item ballot (Doc.#5626) in Cycle 1, 2014.  
The ballot document is going to be adjudicated at the next Japan PIC Committee meeting in Japan Standards Spring Meetings 2014.  
**By / 2<sup>nd</sup>:** Shoji Komatsu (Acteon), Supika Mashiro (Tokyo Electron)  
**Discussion:** None  
**Vote:** 11:0

**Motion:** To approve the SNARF for *Revision to SEMI AUX023-1113, Overview Guide to SEMI Standards for 450mm*.  
The AUX document is going to be adjudicated at the North America Spring meeting 2014.  
**By / 2<sup>nd</sup>:** Shoji Komatsu (Acteon), Kenji Yamagata (Daifuku)  
**Discussion:** None  
**Vote:** 12:0

**Action Item:** 131206-1, Since a check box for Revision to an existing Auxiliary Information is missing in the SNARF form, Staff will input this issue to the Regulation Sub-Committee.

**Attachment:** 04, 450mm IPIC TF meeting agenda rev1-20131205

#### 4.3 International Process Module Physical Interface Task Force

Supika Mashiro (Tokyo Electron) reported for the International Process Module Physical Interface Task Force. There was a joint meeting between the IPPI TF and the 450mm IPIC TF on December 5, 2013. The report was done on the IPIC TF report section.

#### 4.4 450mm AMHS Task Force

Kenji Yamagata (Daifuku) reported for the 450mm AMHS Task Force. This report contained information on development of revised E156 ballot and status of standardization on signal tower for AMHS.

**Motion:** To approve Doc.#5524 in Cycle 2, 2014 and be adjudicated in Japan Spring meeting  
**By / 2<sup>nd</sup>:** Kenji Yamagata (Daifuku) / Msanao Murata / Murata Machinery  
**Discussion:** None  
**Vote:** 12:0

**Attachment:** 05, 20131206JA 450mm AMHS TF Report R0.0

#### 4.5 International Reticle SMIF Pod & Load Port Interoperability Task Force

Koji Ohyama (Dainichi Shoji) reported there was no activity since July (SEMICON West 2013).

#### 4.6 Fiducial Mark Interoperability task Force

Supika Mashiro (Tokyo Electron) reported for the Task Force. This report contained information on the TF leadership and the TF activity.

**Attachment:** 06, 20131204FMI-TF-Report\_r1

#### 4.7 (Silicon Wafer Committee) JA Shipping Box Task Force

Yasuhiro Shimizu (Shimizu Consulting) reported for the Task Force. This report contained information on the 450mm Wafer Shipping System and error correction of SEMI M80-0812.

**Attachment:** 07, SHIPPING BOX TF REPORT 2013\_12\_06

#### 4.8 (JA Silicon Wafer Committee and NA PI&C Committee) International 450mm Shipping Box Task Force

Same as above

4.9 Updates from Polished/ Epi/ ASI/ AWG Task Forces (International 450mm Related Task Force) under the global Silicon Wafer Committee

Tetsuya Nakai (SUMCO) reported for the activity. This report contained information on current status for 450mm Wafer Standards.

**Attachment:** 08, 450mm Wafer related STD Report\_131206

### 5 Old Business

None

### 6 New Business

None

### 7 Action Item Review

#### 7.1 *Open Action Items*

Hirofumi Kanno (SEMI) reviewed the open action items. These can be found in the Open Action Items table at the beginning of these minutes.

#### 7.2 *New Action Items*

Hirofumi Kanno (SEMI) reviewed the new action items. These can be found in the New Action Items table at the beginning of these minutes.

### 8 Next Meeting and Adjournment

April 18, 2014, 1:30p.m. – 5:30p.m. Japan Standard Time  
Japan Standards Spring Meetings 2014, SEMI Japan Office, Tokyo, Japan

Respectfully submitted by:  
Hirofumi Kanno  
Manager, Standards & EHS  
SEMI Japan  
Phone: +81.3222.5862  
Email: hkanno@semi.org

Minutes approved by:

Tsuyoshi Nagashima (Miraial), Co-chair	April 18, 2014
Tsutomu Okabe (TDK), Co-chair	April 18, 2014
Kenji Yamagata (Daifuku), Co-chair	April 18, 2014

**Table 7 Index of Available Attachments #1**

#	<i>Title</i>	#	<i>Title</i>
01	EA Liaison Report_Oct_2013_v1	02	NA PIC Report Dec 2013 MT
03	4.0_SEMI Staff Report 2013 Dec._R0.1	04	450mm IPIC TF meeting agenda rev1-20131205
05	20131206JA 450mm AMHS TF Report R0.0	06	20131204FMI-TF-Report_r1
08	450mm Wafer related STD Report_131206	07	SHIPPING BOX TF REPORT 2013_12_06

#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.