

## Japan Liquid Chemicals Committee Meeting Summary and Minutes

**SEMICON Japan 2013**  
Tuesday, December 3, 2013, 15:00-17:30  
SEMI Japan, Tokyo, Japan

### Next Committee Meeting

SEMI Japan Standards Spring 2014 Meetings  
Friday, April 11, 2014, 15:00-17:00  
SEMI Japan, Tokyo, Japan

### Table 1 Meeting Attendees

**Co-Chairs:** Hiroshi Tomita (Toshiba), Hiroyuki Araki (Dainippon Screen Manufacturing)

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

**Attendee:** 14 + **SEMI:** 1

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Dainippon Screen Manufacturing	Araki	Hiroyuki	Nihon Entegris	Nagafuchi	Takuya
Nihon Entegris	Chiba	Koji	Advance Electric Company	Sasao	Kimihito
Swegelok	Ishida	Norhitsu	Organo	Sugawara	Hiroshi
Kanto Chemical	Ishikawa	Norio	Toshiba	Tomita	Hiroshi
AIST	Kato	Haruhisa	Nihon Pall	Tsuzuki	Shuichi
Particle Measuring Systems	Kato	Kazutoshi	Nihon Gore	Yamakawa	Keiichi
Rion	Kondo	Kaoru	Flowell	Yoshida	Jun
Nihon Pall	Mizuno	Takehito	SEMI Japan	Yanagisawa	Chie

*\* alphabetical order by last name*

### Table 2 Leadership Changes

None.

### Table 3 Ballot Results (or move to Section 4, Ballot Review)

None.

### Table 4 Authorized Ballots

Listing of documents approved by the committee for letter ballot.

#	When	SC/TF/WG	Details
5421A	Cycle2/3-2014	Liquid Filter Task Force	New Standard: Test Method for Particle Removal Performance of Liquid Filter Rated Below 30 nm with ICP-MS

### Table 5 Authorized Activities

Listing of all new TFOFs, SNARFs, and other activities approved by the committee.

#	Type	SC/TF/WG	Details
--	Study Group	Ultrapure Water Evaluation	To discuss the evaluation method for the quality of liquid chemical and ultrapure water at POP/POU of semiconductor cleaning equipment

#	Type	SC/TF/WG	Details
		Study Group	
--	Study Group	Liquid Chemicals ESD Study Group	To discuss the evaluation method of electrostatic charge generated with flow of liquid chemical or ultrapure water in di-electric component

Note: SNARFs and TFOFs are available for review on the SEMI Web site at:

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARE>

**Table 6 New Action Items (or move to Section 8, Action Item Review)**

Item #	Assigned to	Details
LC131203-01	SEMI Japan Staff	To ask the leader, Koichi Ishikawa (ACE), whether or not the 5-year-review Task Force should continue to work on Doc. 5064 (Revision to SEMI F66-1011).

## 1 Welcome, Reminders and Introductions

Hiroshi Tomita (Toshiba), committee co-chair, called the meeting to order at 15:00. Self-introductions were made followed by the agenda review.

## 2 Required Meeting Elements

The meeting reminders on program membership requirement, antitrust issues, intellectual property issues and international effective meeting guidelines, were reviewed by SEMI staff, Chie Yanagisawa.

## 3 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting held on October 11, 2013.

<b>Motion:</b>	To approve the minutes of the previous meeting as written.
<b>By / 2<sup>nd</sup>:</b>	Hiroyuki Araki (Dainippon Screen Manufacturing) / Takuya Nagafuchi (Nihon Entegris)
<b>Discussion:</b>	None
<b>Vote:</b>	14 in favor and 0 opposed. <b>Motion passed.</b>

**Attachment:** 01\_Minutes\_131011\_Japan-LC\_Final

## 4 SEMI Staff Report

Chie Yanagisawa (SEMI Japan) gave the SEMI staff report. This report included as following points.

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

**Attachment:** 02\_SEMI Staff Report 2013 Dec.\_R0.1

## 5 Technical Committee Award

The Liquid Chemicals Japan TC Chapter gave the Technical Committee Awards to the members as following.

- Kaoru Kondo (Rion)
- Kazutoshi Kato (Particle Measuring Systems)

## 6 Liaison Reports

### 6.1 Liquid Chemicals North America TC Chapter

Chie Yanagisawa gave the North America Liaison Report. This report included as following points.

- Leadership
- Organization Chart
- Meeting Information
- New Activities
- Ballot Review Summary
- Upcoming Ballots
- Task Force Reports
- Next Meeting Schedule

**Attachment:** 03\_NA LChem Report Dec 2013 MT PT

Hiroshi Tomita (Toshiba), the co-chair, mentioned that the Liquid Chemicals Japan TC Chapter was interested in the Doc. 5621, so it would keep an eye on the activity.

### 6.2 Gases and Liquid Chemicals Europe TC Chapter

- Leadership
- Committee Organization
- Meeting Information
- Ballot Results
- New SNARFs
- Existing SNARFs
- Upcoming Ballot for 2014
- Task Force Activities

## 7 Ballot Review

None.

## 8 Task Force Reports

### 8.1 Diaphragm Valve Task Force

Kimihito Sasao (Advance Electric Company), co-leader, reported there was no update.

### 8.2 Welding Fitting Task Force

Kimihito Sasao (Advance Electric Company), co-leader, reported there was no update.

### 8.3 5-year-review Task Force

Koichi Ishikawa (ACE), the leader, did not attend the meeting and no report was provided. The Liquid Chemicals Japan TC Chapter discussed on the significance of future activity of this task force.

The Liquid Chemicals Japan TC Chapter thought that it would be appropriate for the task force to discontinue working on Doc. 5064 and for the TC Chapter to get SEMI F66-1101 "Inactive" status. The TC Chapter would ask the leader, Koichi Ishikawa, what to do for the activity for Doc. 5064 by the next TC Chapter meeting and then would make a decision for SEMI F66-1101.

**Action Item :** SEMI Staff to ask the leader, Koichi Ishikawa (ACE), whether or not the 5-year-review Task Force should continue to work on Doc. 5064 (Revision to SEMI F66-1011).

#### 8.4 Liquid Filter Task Force

Takehito Mizuno, the co-leader, mentioned that the Liquid Filter Task Force has worked on Doc. 5421A and would plan to rebalot it. The draft of Doc. 5421A would be reviewed at the next Liquid Filter Task Force meeting on January 24, 2014. He also commented that the task force would propose to submit Doc. 5421A for cycle 2-2014 or Cycle 3-2014 at the New Business Section later at this meeting.

#### 8.5 Liquid-borne Particle Counter Task Force

Kaoru Kondo (Rion), the co-leader, reported there was no update.

### 9 Old Business

#### 9.1 Previous Meeting Action Items

Chie Yanagisawa reviewed the previous meeting action items.

**Table 7 Previous Meeting Actions Items**

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
LC131011-01	SEMI Japan Staff	To convey the message via SEMI NA Staff to North America Liquid Chemicals Committee Co-chairs and UPW Task Force Leaders that Japan Liquid Chemicals Committee takes the position as mentioned in 7.4 of the Japan Liquid Chemicals Committee meeting minutes on July 22, 2013, regarding the slide 15th of North America Liquid Chemicals Committee Liaison Report for Japan Liquid Chemicals Committee meeting on October 11, 2013. => <b>Close</b>

### 10 New Business

#### 10.1 Proposal for Submission of 5421A for Cycle 2-2014 or Cycle 3-2014

Takuya Nagafuchi (Nihon Entegris), the co-leader, made a proposal as following.

<b>Motion:</b>	To submit Doc. 5421A: New Standard “ <i>Test Method for Particle Removal Performance of Liquid Filter Rated Below 30 nm with ICP-MS</i> ” for Cycle 2-2014 or Cycle 3-2014
<b>By / 2<sup>nd</sup>:</b>	Takuya Nagafuchi (Nihon Entegris) / Takehito Mizuno (Nihon Pall)
<b>Discussion:</b>	None
<b>Vote:</b>	14 in favor and 0 opposed. <b>Motion passed.</b>

#### 10.2 Proposal for newly setting up two Study Groups

Hiroshi Tomita (Toshiba), the co-chair, mentioned that new topics emerged for standardization in the Liquid Chemicals Japan TC Chapter, but there was no task force to delegate them under the TC Chapter. Hiroshi Tomita suggested to set up study groups for the preparations until the TFOFs were ready. The proposals were made as following.

<b>Motion:</b>	To propose Ultrapure Water Evaluation Study Group to discuss the evaluation method for the quality of liquid chemical and ultrapure water at POP/POU of semiconductor cleaning equipment.
<b>By / 2<sup>nd</sup>:</b>	Hiroyuki Araki (Dainippon Screen Mfg.) / Hiroshi Sugawara (Organo)
<b>Discussion:</b>	None
<b>Vote:</b>	14 in favor and 0 opposed. <b>Motion passed.</b>

<b>Motion:</b>	To propose Liquid Chemicals ESD Study Group to discuss the evaluation method of electrostatic charge generated with flow of liquid chemical and ultrapure water in di-electric component
<b>By / 2<sup>nd</sup>:</b>	Keiichi Yamakawa (Nihon Gore) / Takuya Nagafuchi (Nihon Entegris)
<b>Discussion:</b>	None
<b>Vote:</b>	14 in favor and 0 opposed. <b>Motion passed.</b>

## 11 Action Item Review

### 11.1 New Action Items

**Action Item :** SEMI Staff to ask the leader, Koichi Ishikawa (ACE), whether or not the 5-year-review Task Force should continue to work on Doc. 5064 (Revision to SEMI F66-1011).

## 12 Next Meeting and Adjournment

The next meeting of the Liquid Chemicals Japan TC Chapter is scheduled for Friday, April 11, 2014, 15:00-17:00 at SEMI Japan, Tokyo, Japan.

Having no further business, a motion was made by Hiroshi Tomita, co-chair, to adjourn the Liquid Chemicals Japan TC Chapter meeting at JPR Conference room #1, SEMI Japan office. The meeting unanimously adjourned at 17:30.

Respectfully submitted by:  
 Chie Yanagisawa  
 Sr. Coordinator, Standards & EHS  
 SEMI Japan  
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 Email: cyanagisawa@semi.org

Minutes approved by:

Hiroshi Tomita (Toshiba), Co-chair	March 3, 2014
Hiroyuki Araki (Dainippon Screen Manufacturing), Co-chair	March 4, 2014

**Table 8 Index of Available Attachments #1**

#	Title
1	Minutes_131011_Japan-LC_Final
2	SEMI Staff Report 2013 Dec._R0.1
3	NA LChem Report Dec 2013 MT PT

#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 Chie Yanagisawa at the contact information above.