



Liquid Chemicals Global Technical Committee Japan TC Chapter

Meeting Summary and Minutes

Japan Standards Winter Meetings 2023
 Friday December 8, 2023, 15:00 -17:00(JST)
 SEMI Japan office, Tokyo, Japan via OVTCCM (Hybrid)

TC Chapter Announcements

Next TC Chapter Meeting

Friday May 24, 2023, 15:00-17:00[JST]

SEMI Japan office Room2, Tokyo, Japan + OVTCCM (Hybrid)

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Yoshiyuki Fujitani (SCREEN Semiconductor Solutions), Takuya Nagafuchi (Nihon Entegris)

SEMI Staff: Mami Nakajo, Nobuko Okayasu

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
SCREEN Semiconductor Solutions	<i>Fujitani</i>	<i>Yoshiyuki</i>	Organo	Futatsuki	Takashi
Advance Electric	Sasao	Kimihito	Nihon Entegris	Nagafuchi	Takuya
RION	Shimmura	Masaki	<i>Pall</i>	<i>Nakagawa</i>	<i>Hisashi</i>
<i>Organo</i>	<i>Sugawara</i>	<i>Hiroshi</i>	Particle Measuring Systems	Takeshita	Mitsuyoshi
AIST-National Institute of Advanced Industrial and Technology	Kato	Haruhisa	Nippon Pillar Packing	Koike	Tomoyuki
CKD Corporation	Yasue	Hiroto	Nippon Pillar Packing	Minato	Yoji
CKD Corporation	Yamaguchi	Tomoya	SEMI Japan	Nakajo	Mami
RION	Kondo	Kaoru	SEMI Japan	Osawa	Naoko
Tokyo Dylec	Yanagiuchi	Mamoru			

Table 2 Leadership Changes

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

Table 3 TC Chapter Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
Diaphragm Valve TF	Disbanded
Welding Fitting TF	Disbanded

Table 4 Ballot Results

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

#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 Ratification Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>ISC A&R Action</i>	<i>A&R Forms</i>
None			

Note 1: **Passed** Ratification ballots will be submitted to SEMI publication for final processing.

Note 2: **Failed** Ratification ballots were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 6 Activities Approved by the GCS between meetings of the TC Chapter

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

Table 7 Authorized Activities

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

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

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

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

Table 8 Authorized Ballots

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
None			

Table 9 SNARF(s) Granted a One-Year Extension

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
None			

Table 10 SNARF(s) Abolished

<i>#</i>	<i>TF</i>	<i>Title</i>
None		

Table 11 Standard(s) to receive Inactive Status

<i>Standard Designation</i>	<i>Title</i>
None	

Table 12 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20231208-1	SEMI Staff	To correct references to the Committee and Region of SEMI C105 in SEMI Standards Publications Section of the Staff Report.
20231208-2	SEMI Staff	To tell SEMI HQ to change the originating Region of SEMI C82-0713 (Reapproved 0819) and SEMI C89-0116 from America to Japan as well as the Initiating Region.



Table 12 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20231208-3	Kimihito Sasao	To prepare a TFOF within 6 months

Table 13 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20230526-1	SEMI Staff	To confirm and share the details of ballots that were failed in the last NA Liquid TC Meeting held on April 5, 2023.>Closed
20230526-2	Liquid Filter TF	To proceed to review contents of SNARF, Revision of SEMI C89 with UPW TF by next JA Liquid TC Meeting. >Closed
20230526-3	Kimihito Sasao (Welding Fitting TF Leader)	To prepare a TFOF by the next TC meeting.>Closed
20230526-4	SEMI Staff	To send the ballot review sheet of 6820A to the A&R>Closed
20230526-5	SEMI Staff	To ask SEMI NA Staff to review SEMI F31-0113 on the 5-year review list, as its Initiating Region is Japan, but not in charge of Japan.>Closed
20230526-6	Co-chairs	To nominate Kazutoshi Kato for the SEMI Honor Award in the fall of 2023>Closed

1 Welcome, Reminders, and Introductions

Takuya Nagafuchi (Nihon Entegris) called the meeting to order at 15:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 1.2_Required Element Nov 2022_E+J (new template)

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the minutes as written with edited

By / 2nd: Kimihito Sasao (Advance Electric Co., Inc) /Kaoru Kondo (RION CO., LTD)/ MASAKI SHIMMURA (RION CO., LTD.)

Discussion: None

Vote: 12 in favor and 0 opposed. **Motion Passed.**

Attachment: 2.1_Liquid Mins_230526_approved

3 Technical Committee Awards

The following members received 2022 Technical Committee Awards.

Due to time constraints, it couldn't be presented the following award winners during the last TC meeting, so it was awarded for the following members in this TC meeting.

- Hiroshi Sugawara Organo
 - For contributions of Document 6820, New Standard: Guide For Trace Iron Analysis in High Purity 2-Propanol (IPA) and promoting IPA-TF by utilizing knowledge.
- Hiroshi Tomita Kioxia
- Hiroyuki Araki SCREEN Semiconductor Solutions



- For contributions of Document 6820, New Standard: Guide For Trace Iron Analysis in High Purity 2-Propanol (IPA) and initiating and leading IPA-TF with the cooperation of INE (Interfacial Nano Electronic Chemistry).

4 Liaison Reports

4.1 Liquid Chemicals North America TC Chapter

-- Mami Nakajo (SEMI) reported for the NA TC Chapter. Of note:

Attachment: 4.1_NA LChem Liaison Report Nov2023 v1,

4.2 SEMI Staff Report

-- Mami Nakajo (SEMI) gave the SEMI Staff Report. Of note:

Action Item: 20231208-01(SEMI Staff): To correct references to the Committee and Region of SEMI C105 in SEMI Standards Publications Section of the Staff Report.

SEMI C105, Guide for Trace Iron Analysis in High Purity 2-Propanol (IPA),
Committee / Region

- Incorrect: Process Chemicals/ NA
- Correct: Liquid Chemicals/ JA

Attachment: 4.2_ Staff Report Dec 2023 HK R0,

5 Ballot Review

None

6 Subcommittee and Task Force Reports

6.1 Liquid Filter TF

Hisashi Nakagawa (Pall) reported for the *Liquid Filter* Task Force.

- Revision of SEMI C89-0116, Test Method for Particle Removal Performance of Liquid Filter Rated Below 30 nm with Inductively Coupled Plasma – Mass

After the 2 Week Review of the SNARF for Revision of SEMI C89 was sent out, the TF received several Editorial and Technical related comments from Eric Sklar. Based on these comments, the TF has modified Scope of the SNARF. And the TF will continue to work with UPW TF next year.

Also Takuya Nagafuchi (Nihon Entegris) reported the following matter for this Task Force.

- Revision of SEMI F110-0712: TEST METHOD FOR MONODISPERSED POLYSTYRENE LATEX (PSL) CHALLENGE OF LIQUID FILTERS

The TF decided to maintain this document without changing its Scope, however during the 2 Week Review of the SNARF for Revision of SEMI F110-0712, the TF also received comment that it has been 11 years since the first publication and a review of its Scope will be necessary from Eric Sklar. Considering that, the TF will continue to discuss how to change it next year.

There was discussion about whether C82 and F110 could be integrated, and Haruhisa Kato (AIST) commented that it would be difficult to integrate C82 and F110 because they are different types of particles.

Therefore, this SNARF approval will be postponed after this matter is cleared.

Attachment: 6.1_LF-TF Meeting Minutes_20231116_handout

6.2 Liquid-Borne Particle Counter TF

-- Masaki Shimmura (RION.) reported for the Liquid-Borne Particle Counter Task Force.

The work of revision to C77-0912 is on-going, reviewing negative comments, including changes to the Particle Size. The TF plans to submit the ballot for Cycle 4-2024.

6.3 Diaphragm Valve TF -

- Kimihito Sasao (Advance Electric) reported for the *Diaphragm Valve* Task Force.

He suggested and made motions that both Diaphragm Value TF and Welding Fitting TF were disbanded as both Co-TF leaders were unable to continue due to circumstances and start a new Study Group to set up a new TF.

Motion: Disband the TFOF of Diaphragm Valve TF

By / 2nd: Kimihito Sasao (Advance Electric Co., Inc) / .MASAKI SHIMMURA (RION CO., LTD)/

Discussion: Yoshiyuki Fujitani (SCREEN Semiconductor Solutions) asked if the new study group takes over from the two TFs (Diaphragm and Welding TF), and Sasao answered it will take over but in addition to that the scope will be more widen.

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

Motion: Disband the TFOF of Welding Fitting TF

By / 2nd: Kimihito Sasao (Advance Electric Co., Inc) / MASAKI SHIMMURA (RION CO., LTD.)

Discussion: Same as the last motion of Disband the TFOF of Diaphragm TF

Vote: 12 in favor and 0 opposed. **Motion Passed.**

Motion: Approve the new Study Group (Valve and Fitting)

By / 2nd: Kimihito Sasao (Advance Electric Co., Inc) / MASAKI SHIMMURA (RION CO., LTD.)

Discussion: Yoshiyuki Fujitani (SCREEN Semiconductor Solutions) asked if the name of the new Study Group has been decided and will it take over from the two TFs that are being disbanded? Wouldn't it be difficult if we don't clarify what we are targeting? And he suggested that it would be better to take over the two previous TFs.

Kimihito Sasao (Advance Electric Co., Inc) replied that the Study group will decide on the name after discussions in the group, including the areas to be developed.

Vote: 10 in favor and 0 opposed. **Motion Passed.**

Kimihito Sasao (Advance Electric Co., Inc) and Takuya Nagafuchi (Nihon Entegris) are decided to be co-leaders of the new Study Group.

Action Item: 20231208-3, (Kimihito Sasao) To prepare a TFOF within six months.

6.4 Welding Fitting TF -

- Please refer 6.3.

6.5 Trace Metal Analysis for High Pure IPA TF



- Hiroshi Sugawara (Organo) reported for the Task Force.

Ballot 6820A (New C105), Guide for Trace Iron Analysis in High Purity 2-Propanol (IPA)
published as SEMI C105-0923.

No other activities.

7 Old Business

7.1 SNARF Project Period Check

None

7.2 5-year Review

7.2.1 SEMI F110-0712 (Reapproved 0618), Test Method for Mono-Dispersed Polystyrene Latex (PSL) Challenge of Liquid Filters

7.2.2 SEMI C89-0116, Test Method for Particle Removal Performance of Liquid Filter Rated Below 30 nm with Inductively Coupled Plasma – Mass Spectroscopy (ICP-MS)

7.2.3 SEMI C77-0818, Test Method for Determining the Counting Efficiency of Liquid-Borne Particle Counters for Which the Minimum Detectable Particle Size is Between 30 nm and 100 nm

These above documents are on-going.

Action Item: 20231208-2, SEMI Staff, To tell SEMI HQ to change the originating Region of SEMI C82-0713 (Reapproved 0819) and SEMI C89-0116 from America to Japan as well as the Initiating Region.

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8 New Business

None

9 Next Meeting and Adjournment

The next meeting is scheduled for Friday May 24, 2024, 15:00-17:00[JST], @SEMI Japan office via OVVTCCM (Hybrid)

See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: [17:00]>.

Respectfully submitted by:

Mami Nakajo

Standards & EHS

SEMI Japan

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Email: mnakajo@semi.org

Minutes tentatively approved by:

Yoshiyuki Fujitani (SCREEN Semiconductor Solutions), Co-chair	Dec. 28, 2023
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Takuya Nagafuchi (Nihon Entegris), Co-chair	Dec. 28, 2023
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Table 14 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
1.2_Required Element Nov 2022_E+J (new template)	4.2_ Staff Report Dec 2023 HK R0
2.1_Liquid Mins_230526_approved	6.1_LF-TF Meeting Minutes_20231116_handout
4.1_NA LChem Liaison Report Nov2023 v1	7.2_5 years review_20231102_Liquid r1

#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.