



Microlithography NA TC Chapter Meeting Summary and Minutes

Web Conference
Tuesday, April 23, 2024
9:00 AM – 11:00 AM Pacific

TC Chapter Announcements

Next TC Chapter Meeting
Tentative – Oct 29, 2024 (9 AM – 11 AM Pacific)

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chair: Bryan Barnes

SEMI Staff: Kevin Nguyen

| <i>Company</i> | <i>Last</i> | <i>First</i> | <i>Company</i> | <i>Last</i> | <i>First</i> |
|--------------------------|---------------|-----------------|------------------------|-----------------|-----------------|
| <i>Brooks Automation</i> | <i>Babbs</i> | <i>Daniel</i> | <i>Mentor Graphics</i> | <i>Kim</i> | <i>Stephen</i> |
| <i>NIST</i> | <i>Barnes</i> | <i>Bryan</i> | <i>KLA</i> | <i>LoPresti</i> | <i>Patrick</i> |
| <i>XYALIS</i> | <i>Brault</i> | <i>Frederic</i> | <i>XYALIS</i> | <i>Morey</i> | <i>Philippe</i> |
| <i>Synopsys, Inc.</i> | <i>Cecil</i> | <i>Thomas</i> | | | |

Table 2 Leadership Changes

| <i>WG/TF/SC/TC Name</i> | <i>Previous Leader</i> | <i>New Leader</i> |
|-------------------------|------------------------|-------------------|
| | | |

Table 3 TC Chapter Structure Changes

| <i>Previous WG/TF/SC Name</i> | <i>New WG/TF/SC Name or Status Change</i> |
|-------------------------------|---|
| | |

Table 4 Ballot Results

| <i>Document #</i> | <i>Document Title</i> | <i>TC Chapter 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 | | | |

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.

| # | Type | SC/TF/WG | Details |
|------|-------|-----------------|--|
| 7239 | SNARF | P39 Revision TF | Revision of SEMI P39-0416, Specification For OASIS® – Open Artwork System Interchange Standard |

#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

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

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

| # | TF | Title | Expiration Date |
|------|-----------------|---|-----------------|
| 6516 | P47 Revision TF | Revision to SEMI P47, Test Method for Evaluation of Line-Edge Roughness and Linewidth Roughness | 04/22/2025 |

Table 10 SNARF(s) Cancelled

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

Table 11 Standard(s) to receive Inactive Status

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

Table 12 New Action Items

| Item # | Assigned to | Details |
|--------------|---------------------|--|
| April2024-#1 | Kevin Nguyen (SEMI) | To set up a Connect@SEMI website for the P39 Revision Task Force |

Table 13 Previous Meeting Action Items

| Item # | Assigned to | Details | Status |
|----------------|-------------------------|--|-----------|
| October2023-#1 | Philippe Morey (Xyalis) | To prepare the TFOF and SNARF for Revision of SEMI P39-0416, Specification For OASIS® – Open Artwork System Interchange Standard | Completed |



1 Welcome, Reminders, and Introductions

1.1 Bryan Barnes called the meeting to order at 9:00 AM. 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

2.1 The TC Chapter reviewed the minutes of the previous meeting.

Motion: Accept the minutes as written

By / 2nd: Stephen Kim/ Frederic Brault

Discussion: None

Vote: 4-0. Motion passed.

Attachment: 01, Microlithography NA TC Minutes 10312023

3 SEMI Staff Report

3.1 Kevin Nguyen (SEMI) gave the SEMI Staff Report. Of note:

- SEMI upcoming event
 - SEMICON West, July 9-11, 2024
 - San Francisco, CA
 - SEMICON West Registration is open
 - SEMI Standards discounted rate or complimentary (Expo Pass) link:
 - https://bit.ly/SW_Standards_24
- 2024 Critical Dates for SEMI Standards Ballots
 - <https://www.semi.org/en/collaborate/standards/ballots>
- Standards Online Voting System Updated
 - New system went live for Cycle 3, 2024
 - <https://www.semi.org/standards/ballots> or <https://portal.semi.org>
 - The new voting system:
 - Integrates and streamlines sign-in process with various SEMI/Standards member services
 - Aims to bring updated user interface while maintaining functionality that's familiar to voters
 - Improves data management for SEMI internal database
- Regulations and Procedure Manual Updates
 - Regulations (Feb 20, 2024)
 - New definition of "Standards Document"
 - Clarification of confidential presentation materials
 - <https://www.semi.org/sites/semi.org/files/2024-02/Standards%20Regulations%20February%202024.pdf>
 - Procedure Manual (Feb 20, 2024)
 - The use of Connect@SEMI for TF management and document development depository
 - Clarification on meeting quorum
 - TC Chapter Committee Express Report (CER) timing
 - Deletion of Appendix 4 - Nonconforming Standards Titles
 - <https://www.semi.org/sites/semi.org/files/2024-02/Procedure%20Manual%20February%202024.pdf>
 - The Use of Connect@SEMI for TF Management and Document Development Depository



- Refer to PM § 6.4.5 Operation of TFs
 - Task Forces have one year from 02/20/24 to implement use of Connect@SEMI. (<https://connect.semi.org>)
 - Once TFs have implemented use of Connect@SEMI, they shall use it to:
 - Maintain the TF member roster up to date.
 - Share the working drafts.
 - The default format for working Draft Document sharing shall be Adobe Acrobat PDF.
 - Distribute the Draft Document at least one week before ballot submission to SEMI.
- New Meeting Required Elements
 - <https://www.semi.org/sites/semi.org/files/2024-03/Required%20Meeting%20Elements%20March%202024.pptx>
- SEMI Standards Publications
 - Total SEMI Standards in portfolio: 1,086
 - Includes 335 Inactive Standards

Attachment: 02, Staff Report March 2024 v4

4 Ballot Review

None

5 Subcommittee and Task Force Reports

5.1 Curvilinear Format Task Force

5.1.1 Philippe Morey said the TF will meet in May. No other information is reported.

5.2 Mask Orders P45 (MALY) Task Force

5.2.1 No report.

5.3 Patterning Metrology Task Force

5.3.1 Bryan Barnes reported no update.

5.4 P47 (Line-Edge Roughness) Revision Task Force

5.4.1 No report.

6 Old Business

6.1 Standards due for Five-Year Review.

None

6.2 SNARFs approaching 3-year Document Development Period

6.2.1 Kevin reported doc. 6516, Revision to SEMI P47 Test Method for Evaluation of Line-Edge Roughness and Linewidth Roughness, is expiring in April 29, 2024. A year extension is needed, otherwise, the document will be retired due to failure to complete within 3 year.



Motion: Approve a 1 year extension of the project period for the SNARF for P47
 By: Stephen Kim / Mentor, a Siemens Business
 Second: Frederic Brault / Xyalis
 Discussion: None
 Result: 4-Y 0-N Voting Result: Pass - 100.00%.

6.3 *Previous Action Items*

6.3.1 None

7 New Business

7.1 SEMI P39-0416, Specification For OASIS® – Open Artwork System Interchange Standard, is due for 5 year review, which it failed reapproval ballot from the previous meeting.

7.1.1 Philippe Morey presented his ideas for improvement to P39. The TFOF was presented.

Motion: Approve the TFOF for P39 Revision
 By: Frederic Brault / Xyalis
 Second: Stephen Kim / Mentor, a Siemens Business
 Discussion:
 Result: 4-Y 0-N Voting Result: Pass - 100.00%.

7.1.2 The associated SNARF for revision of P39 was also presented.

Motion: Approve the SNARF for P39 Revision
 By: Philippe Morey / XYALIS
 Second: Stephen Kim / Mentor, a Siemens Business
 Discussion:
 Result: 4-Y 0-N Voting Result: Pass - 100.00%.

Attachment: 03, TFOF_P39revisionRev1
Attachment: 04, SNARF_P39revisionRev1

8 Next Meeting and Adjournment

8.1 The next TC Chapter meeting is tentatively scheduled for October 29, 2024 9 AM – 11 AM Pacific time.

Respectfully submitted by:

Kevin Nguyen,
 SEMI Standards Operations Manager
 Phone: 408-943-7997
 Email: knguyen@semi.org

Minutes tentatively approved by:

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|------------------------------|--|
| Bryan Barnes (NIST) Co-chair | |
|------------------------------|--|

Table 14 Index of Available Attachments#1

| <i>Title</i> | |
|---|-----------------------|
| Microlithography NA TC Minutes 10312023 | TFOF_P39revisionRev1 |
| Staff Report March 2024 v4 | SNARF_P39revisionRev1 |

#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 Kevin Nguyen at the contact information above.