

SEMI Staff Report

February 2021

v1

SEMI Global 2021 Calendar of Events



Event Name	Event Details
SEMICON[®] CHINA	March 17-19 Shanghai, China
SEMICON[®] SOUTHEAST ASIA	May 18-20 Penang, Malaysia
SEMICON[®] WEST	July 13-15 [Hybrid] San Francisco, CA
SEMICON[®] TAIWAN	Sept 8-10 Taipei, Taiwan

Critical Dates for SEMI Standards Ballots



2021	Ballot Submission Deadline	Voting Opens	Voting Closes
Cycle 1	January 5	January 19	February 18
Cycle 2	January 29	February 10	March 12
Cycle 3	March 9	March 23	April 22
Cycle 4	April 14	April 28	May 28
Cycle 5	May 18	June 1	July 1
Cycle 6	August 3	August 17	September 16

<https://www.semi.org/en/collaborate/standards/ballots>

Standards by Category



3D-IC	18	Information & Control	123
Automation Technology	3	Liquid Chemicals	85
Assembly & Packaging	101	MEMS	11
Automated Test Equipment	6	Metrics	28
Compound Semiconductor	33	Micropatterning	45
Environment, Health & Safety	27	Photovoltaic	91
Facilities	31	Physical Interfaces & Carriers	45
FPD – Color Filter, Equipment, Automation, Materials & Metrology	72	Silicon Wafer	113
Gases	127	Traceability	30
HB-LED	10		

SEMI Standards Publications



- Total SEMI Standards in portfolio: **1,029**
 - Includes 274 Inactive Standards

Cycle	New	Revised	Reapproved	Withdrawn
November 2020	1	2	0	0
December 2020	1	3	3	0
January 2021	0	1	6	0

SEMI Standards Publications



- New Standards

Cycle	Designation	Title	Committee	Region
November 2020	SEMI C100	Guide for Reporting Chemical Mechanical Planarization (CMP) Polishing Pads Hardness Used in Semiconductor Manufacturing	Liquid Chemicals	NA
December 2020	SEMI PV97	Specification for Silicon Powder Used in Polysilicon Production	Photovoltaic	CH

SEMI Standards Publications

- Inactive Standards

Committee	Number of Inactive Standards
Assembly & Packaging	48
Automated Test Equipment	2
Compound Semiconductor Materials	4
Environmental Health & Safety	8
Facilities	15
FPD – Equipment	5
FPD – Factory Automation	14
FPD – Materials & Components	13
Gases	18

SEMI Standards Publications



- Inactive Standards Cont.

Committee	Number of Inactive Standards
Information & Control	37
Liquid Chemicals	26
MEMS	3
Metrics	12
Micropatterning	30
Photovoltaic	1
Physical Interfaces & Carriers	19
Silicon Wafer	11
Traceability	8

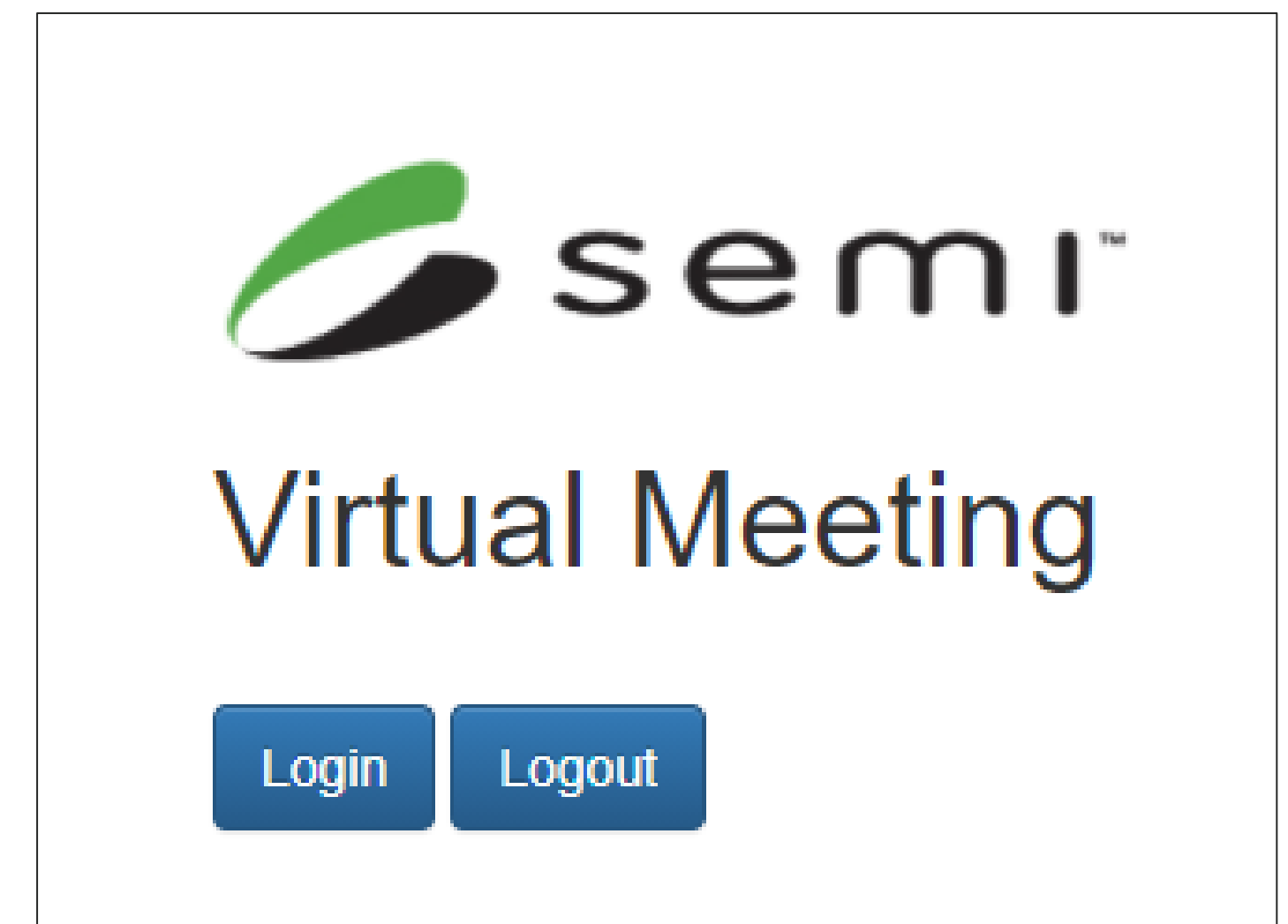
Regulations and Procedure Manual Update



- *Regulations* (November 5, 2020)
 - Clarification on § 6.5, Disbandment of a TC Chapter
 - Requires an RSC to disband a TC Chapter when it is shown to be inactive by failing to:
 - hold meetings for two consecutive years,
 - report activity to its RSC for two consecutive years, or
 - initiate new Standards Documents activities.
- *Procedure Manual* (November 5, 2020)
 - New § 6.1.3.4.1 defining detailed procedures for disbandment of inactive TC Chapters.

Official Virtual TC Chapter Meeting Rooms

- <https://svm.semi.org/>
 - Do not use Internet Explorer or MS Edge. These browsers have known issues.
- Click “Login”
- Enter your Standards membership username and password
 - Same as the one used for voting on ballots
- Username and password can be retrieved at:
<http://ams.semi.org/ebusiness/ForgotUID.aspx>



Enter a Meeting Room



2

Logout

Select Meeting

Committee	Room Name	Region	Start Date	End Date	Time	Enter
FPD - Metrology	Regs SC test	America	07/07/2020	07/07/2020	3:00 PM to 5:00 PM	GO1
FPD - Metrology	IT test	America	07/08/2020	07/09/2020	3:00 PM to 5:00 PM	GO
3D Packaging and Integration	test3	America	06/24/2020	07/08/2020	1 to 2	GO
3D Packaging and Integration	test 4	America	07/02/2020	07/09/2020	3:30pm to 5:00Pm	GO
Information and Control	Staff vs. Mashiro-san, Matsuda-san, 0716	Japan	07/16/2020	07/23/2020	1:00 to 23:00	GO
Silicon Wafer	Silicon Wafer NA TC Chapter meeting	America	04/02/2019	04/02/2019	09:00 to 12:00	GO
Photovoltaic	PV Taiwan TC Chapter	Taiwan	07/02/2020	07/02/2020	1:00 pm to 2:00 pm	GO

Meetings page displays scheduled TC Chapter Meetings.

1. Enter a Meeting Room, click “Go”
2. Remember to Log out of the Virtual Meeting App after the meeting has concluded.

Meeting Room

The screenshot shows the SEMI Standards Meeting Room interface. At the top, there are buttons for 'Meeting Rooms' (1), 'Logout' (2), and 'Logs' (3). Below these is the 'Program Member' section with the text 'FPD - Metrology' and 'IT test'. A 'Show Web & Conference Info' button (10) is located below the member information. A 'Hide Attendees' button (5) is also present. The main section, titled 'In the Meeting' (4), contains a table with columns for 'Interest Voter', 'Name', 'Company / Voting Interest', and 'TimeStamp'. The table lists two attendees: Supika Mashiro and Kevin Nguyen. Below the table are buttons for 'Request To Talk' (6), 'Cancel Request to Talk' (7), and 'Talking Queue' (8). At the bottom, there is a large empty box (9).

Interest Voter	Name	Company / Voting Interest	TimeStamp
<input type="checkbox"/> Request	Supika Mashiro	TEL / TEL	11:25
<input type="checkbox"/>	Kevin Nguyen	SEMI North America / SEMI	14:31

1. Return to List of Meeting Rooms
2. Logout of Virtual Meeting App
3. View Detailed Meeting Log
4. List of Attendees
5. Hide / Show List of Attendees
6. Show Request to talk
7. Cancel Request to talk
8. Display List of attendees waiting to talk
9. View for Active Agenda Topic or Motion and Voting Action
10. Show Web & Conference info

Arrange RingCentral and SVM side by side

Note: You may need to “Exit Full Screen”

The screenshot illustrates the process of exiting full screen in RingCentral. The 'View Options' menu is open, showing options like 'Zoom Ratio', 'Fit to Window', 'Request Remote Control', 'Annotate', and 'Exit Full Screen'. A red arrow points from the note to the 'Exit Full Screen' option. The background shows a split-screen view of the RingCentral meeting interface and the SVM (Semi) program member page.

RingCentral Meeting Interface:

- Meeting Topic: Yellowstone Conference Room's Personal Meeting Room
- Host: Yellowstone Conference Room
- Invitation URL: <https://meetings.ringcentral.com/j/2971065234>
- Participant ID: 16
- Buttons: Join Audio, Share, Invite Others

SVM (Semi) Program Member Page:

Meeting Rooms Logout Logs Data Logs Popout

Program Member

Hello, Laura Nguyen

Facilities

Facilities & Gases NA TC Chapter SVM Training

Hide Web & Conference Info

For Computer: <https://meetings.ringcentral.com/j/1464996018>
For the best audio experience, please use computer audio.

For Telephone:
Dial (for higher quality, dial a number based on your current location):
US: +1(213)2505700
+1(650)2424929
+1(345)9904201
+1(623)4049000 (US West)
+1(720)9027700 (US Central)
+1(470)8692200 (US East)
+1(646)3573664
+1(773)2319226 (US North)
+1(312)2630281
+1(469)4450100 (US South)
Meeting ID: 146 499 8518
International numbers available: <https://meetings.ringcentral.com/teleconference>

Hide Attendees

In the Meeting

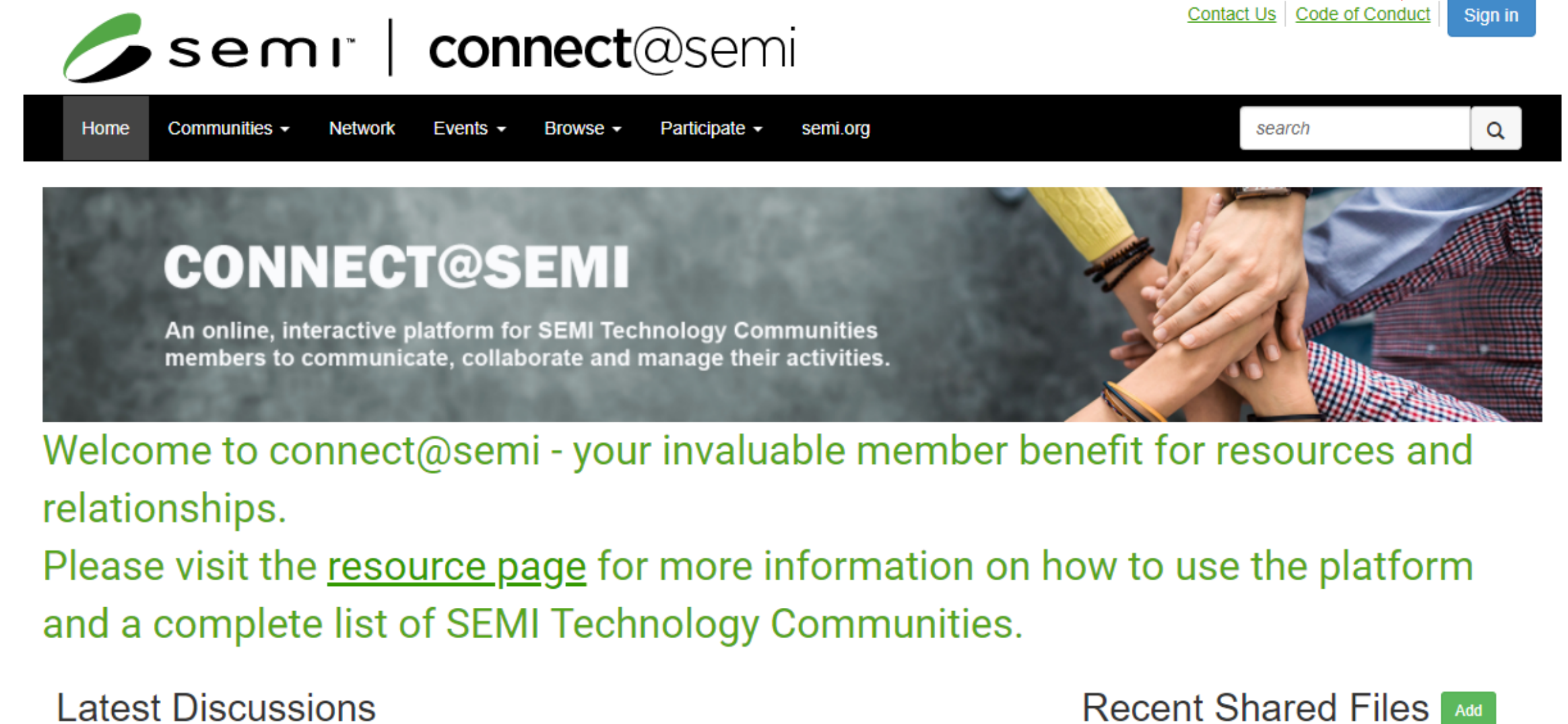
Online In Person Presiding Chair

Interest Voter	Name	Company / Voting Interest	Time Stamp
	Laura Nguyen	Test / L.Nguyen-Test	11:27

semi STANDARDS

connect@semi

- Web link – <https://connect.semi.org>
 - Log in using Standards account (username and password)
- Program Member
 - Can join any task force(s)
 - Post discussion thread
- TF Leader/Community Admin
 - Add member(s)
 - Upload meeting minutes
 - Communicate with TF members
 - Contact your coordinator if a TF Site is desired



PIC 5-Year Review

Designation #	Standard Title	Action By	Assigned to
SEMI E92-0302E (Reapproved 0615)	Specification for 300 mm Light Weight and Compact Box Opener/Loader to Tool-Interoperability Standard (Bolts/Light)	Past Due	Global PIC Maintenance Task Force (Japan)
SEMI E83-0515	Specification for PGV Mechanical Docking Flange	Past Due	International 450 mm Physical Interfaces & Carriers
SEMI E22-1015	Specification for Cluster Tool Module Interface: Transport Module End Effector Exclusion Volume	Past Due	Global PIC Maintenance Task Force (NA)
SEMI E21-1015	Specification for Cluster Tool Module Interface: Mechanical Interface and Wafer Transport	Past Due	Global PIC Maintenance Task Force (NA)
SEMI E156-1115	Specification for Mechanical Interfaces Between 450 mm Automated Material Handling Systems (AMHS) Stocker to Transport Equipment	Past Due	Previously 450 mm AMHS Task Force



Thank You

Nonconforming Titles (See PM Appendix 4)



SNARF 3-Year Status

(TC Chapter may grant a one-year extension)



SNARF(s) Approved by GCS in between TC Chapter Meetings

