

SEMI Standards Staff Report

April 19, 2017 v1.0

SEMI Japan

SEMI Global 2017 Calendar of Events [1/2]

Event Name	Event Details
LED Taiwan 2017	April 12-15, 2017 Taipei, Taiwan
SEMICON Southeast Asia 2017	April 25-27, 2017 Penang, Malaysia
Intersolar Europe	May 31-June 2, 2017 Munich, Germany
Intersolar North America	July 11-13, 2017 San Francisco, CA
SEMICON West 2017	July 11-13, 2017 San Francisco, CA

SEMI Global 2017 Calendar of Events [2/2]

Event Name	Event Details
SEMICON Taiwan 2017	September 13-15, 2017 Taipei, Taiwan
PV Taiwan 2017	September 18-20, 2017 Taipei, Taiwan
SEMICON Europa 2017	November 14-17, 2017 Munich, Germany
SEMICON Japan 2017	December 13-15, 2017 Tokyo, Japan

Global Standards Meeting Schedule

<http://www.semi.org/en/standards-events>




- APR 18, 2017
PV&PV Materials China TC Chapters joint Spring Meeting
Shanghai, China
- APR 19, 2017
Physical Interfaces & Carriers Japan TC Chapter Meeting
Tokyo, Japan
- APR 19, 2017
Automation Technology Japan TC Chapter Meeting
Tokyo, Japan
- APR 20, 2017
HB-LED China TC Chapter Spring Meeting
Wuhu, China
- APR 21, 2017
Information & Control Japan TC Chapter Meeting
Tokyo, Japan
- APR 21, 2017
Liquid Chemicals Japan TC Chapter Meeting
Tokyo, Japan
- APR 25, 2017
EHS Japan TC Chapter Meeting
Tokyo, Japan
- APR 26, 2017
PV Taiwan TC Chapter Meeting
Hsinchu, Taiwan
- APR 27, 2017
Compound Semiconductor Materials Europe TC Chapter Meeting
Nuremberg, Germany
- MAY 12, 2017
FPD Metrology Korea TC Chapter Meeting
Seoul, South Korea
- MAY 24, 2017
Automation Technology Taiwan TC Chapter Meeting
Hsinchu, Taiwan
- JUN 16, 2017
Silicon Wafer Japan TC Chapter Meeting
Tokyo, Japan
- JUN 19, 2017
3DS-IC Japan TC Chapter Meeting
Tokyo, Japan
- JUN 29, 2017
3DS-IC Taiwan TC Chapter Meeting
Hsinchu, Taiwan
- SEP 15, 2017
PV Japan TC Chapter and PV Materials Japan TC Chapter joint Meeting
Tokyo, Japan
- SEP 15, 2017
FPD Materials & Components Japan TC Chapter and FPD Metrology Japan TC Chapter joint Meeting
Tokyo, Japan

As of April 18, 2017
Please make sure most updated
information in the above URL

2017 Critical Dates for SEMI Standards Ballots

Cycle	Ballot Submission Date	Voting Period Starts	Voting Period ends
Cycle 1	January 3	January 17	February 16
Cycle 2	February 3	February 17	March 20
Cycle 3	March 7	March 21	April 20
Cycle 4	April 14	April 25	May 25
Cycle 5	May 12	May 26	June 26
Cycle 6	July 21	August 1	August 31
Cycle 7	August 18	September 1	October 2
Cycle 8	October 13	October 27	November 27
Cycle 9	November 16	November 29	December 29

A&R Ballot Review

A&R Cycle	Result	Notes
October 2016	 A&R_201610	All passed.
December 2016	 A&R_201612	Do. 5723A and 5775A failed.
January 2017	 A&R_201701	All passed.

A&R Ballot Review

- EU Gases & Liquid Chemicals – December. 2016
 - 6077 Reapproval for SEMI C67-0811: Guide for Hafnium Amides
 - 6078 Reapproval for SEMI C68-0811: Guide for Zirconium Amides
 - 6079 Reapproval for SEMI C73-0811: Guide for Hafnium Chloride
 - 6080 Reapproval for SEMI C74-0811: Guide for Hafnium Tert-Butoxide
 - 6081 Reapproval for SEMI C75-0811: Guide for Tetrakis (Dimethylamino) Titanium
 - 6082 Reapproval for SEMI C76-0811: Guide for Zirconium Tert-Butoxide
 - 6083 Reapproval for SEMI C72-0811: Guide for Propylene-Glycol-Mono-Methyl-Ether
 - 5656B Revision to SEMI C65-0308, Guide for Trimethylsilane (3MS), 99.995% Quality
 - 5657B Revision to SEMI C66-0308, Guide for Trimethylaluminum (TMAI), 99.5% Quality
 - *ALL Passed*

A&R Ballot Review

- NA Liquid Chemicals – December. 2016
 - 6084 Revision to SEMI C93-0216 Guide for Determining the Quality of Ion Exchange Resin Used in Polish Applications of Ultrapure Water System - *Passed*

SEMI Standards Publications

Publication Cycle	New	Revised	Reapproved	Withdrawn
March 2016	2	21	4	0
April 2016	0	8	10	0
May 2016	2	3	0	0
June 2016	0	4	3	0
July 2016	0	2	0	0
August 2016	0	7	3	0
September 2016	0	1	0	0
October 2016	1	12	1	0
November 2016	5	9	0	0
December 2016	0	2	0	0
January 2017	1	4	4	0
February 2017	1	9	2	0

- Total SEMI Standards in portfolio: **972**
 - Includes **165** Inactive Standards

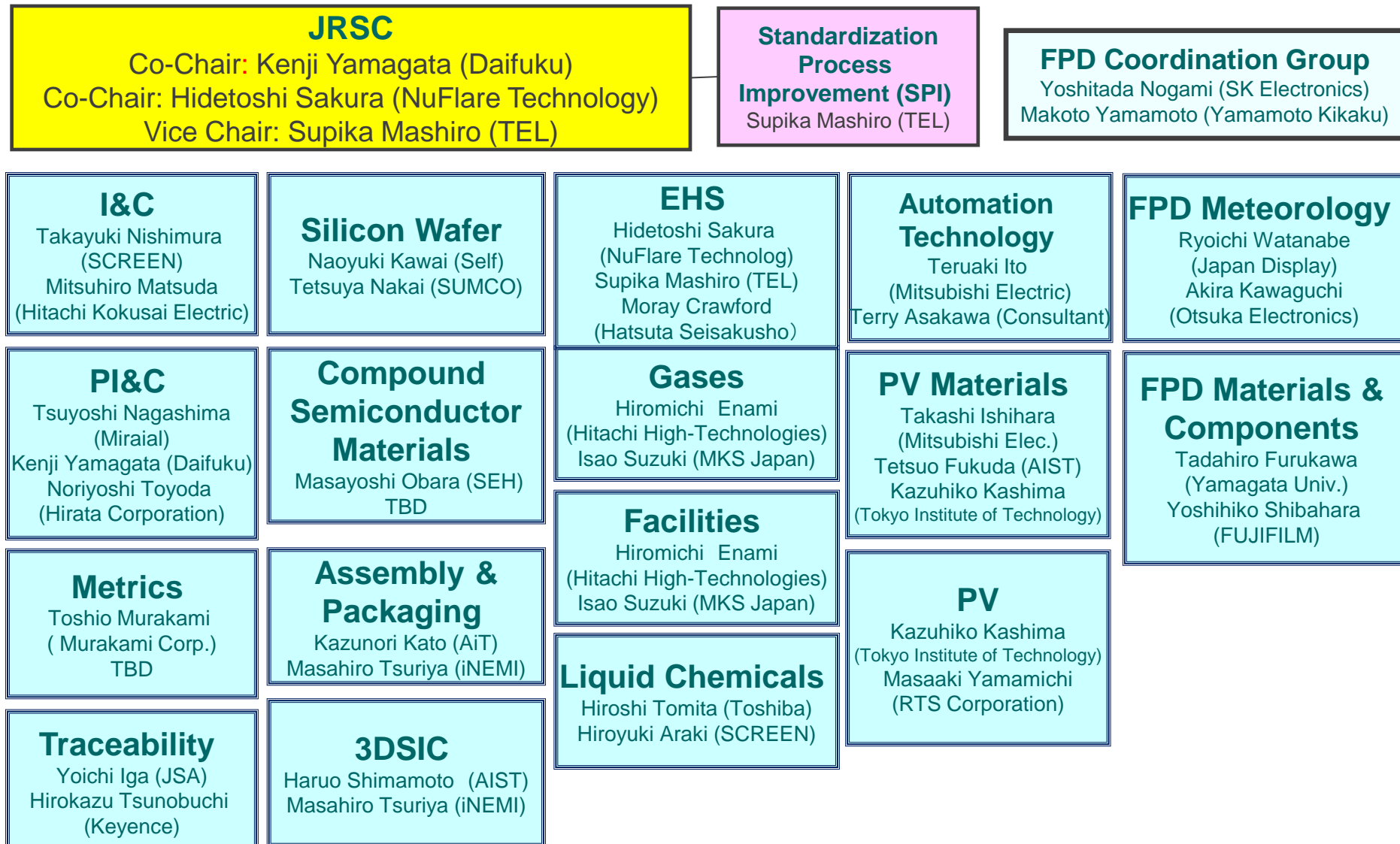
PPT Template Update

- SEMI PPT template is updated again.
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SEMI Std
Template 短縮版

JRSC Organization Chart



SEMI通信(2017年)

- 2017_01_2016年度SEMIジャパン・スタンダード賞はSUMCOの中井哲弥氏が受賞
- 2017_02_電子部品模造被害の現状とトレーサビリティの国際標準化
- 2017_03_コンポーネントに起因する欠陥を測定するためのベースラインの確立

SEMI通信 (2016年)

- 2016_02_SEMI E170 (セキュリティー強化されたレシピ管理システム用基盤スタンダード)
- 2016_03_フラットパネルディスプレイ(FPD)の標準化、その歩みと今後へ向けての取り組み
- 2016_04_薄チップを安全に搬送する「粘着トレイ」の新規SEMIスタンダード化
- 2016_05_EISS TFでアクセス・コントロールの標準仕様化検討を開始
- 2016_06_酢酸蒸気暴露によるPVセルの試験方法
- 2016_08_SEMIスタンダードとスマート・マニュファクチャリング
- 2016_09_CMPスラリーの密度測定方法
- 2016_10_「送電網(パワーグリッド)高調波の互換性」に関する新スタンダードの開発
- 2016_11_SEMI S23改訂/エネルギーの削減から効率の向上へー Mooreの法則を超えて
- 2016_12_SEMI GEM300A スタンダード スマート・マニュファクチャリングの流れに沿ったGEM300の拡張スタンダード群

SEMI通信 (2015年)

- 2015_04_ノッチレス・ウェーハ スタンドアード成立
- 2015_05_太陽電池モジュールの欠陥とレーザースキャニングのスタン
ダード開発
- 2015_06_SEMIにおける3D-IC標準化動向
- 2015_07_STEP:S2の過去10年を振り返って(STEP:S2と私)
- 2015_08_SEMI安全ガイドライン出版-3年に一度の改訂
- 2015_09_Live Gas Study Groupの活動報告
- 2015_10_JEITA規格のSEMI規格への移行について
- 2015_11_SEMI FlowMaster (フロー・ショップ型製造ライン構築支援コン
セプト)
- 2015_12_3DS-IC日本地区技術委員会活動

Global Staff Assignment

- China
 - Sophia Huang
 - China HB-LED
 - China Photovoltaic
- EU
 - James Amano and Kevin Nguyen
 - All EU TC Chapters
- Korea
 - Natalie Shim
 - All Korea TC Chapters
- Taiwan
 - Dean Chang
 - All Korea TC Chapters
- North America
 - Inna Skvortsova
 - Automated Test Equipment
 - Information & Control
 - Liquid Chemicals
 - Metrics
 - Traceability
 - Laura Nguyen
 - 3DS-IC
 - HB-LED
 - Facilities
 - Gases
 - MEMS / NEMS
 - Physical Interfaces & Carriers
 - PV Materials
 - Kevin Nguyen
 - EHS
 - Micropatterning
 - Silicon Wafer

Staff Contact –Japan, After May 1, 2017

Committee	Staff
PV, PV Materials, Gases, Facilities, Liquid Chemical, I&C, Automation Technology	<i>Mizue Iwamura, Coordinator, Standards & EHS miwamura@semi.org</i>
FPD M&C, FPD Meteorology, PI&C, Metrics, Traceability, EHS, Assembly & Packaging, 3DS-IC	<i>Chie Yanagisawa Manager, Standards & EHS cyanagisawa@semi.org</i>
JRSC (including SPI TF), Compound, Silicon Wafer	<i>Junko Collins Director, Standards & EHS jcollins@semi.org</i>
Others	Staff
Standards Products General Information, SEMIViews	<i>C. Yanagisawa</i>
Other Standards Operation	<i>J. Collins</i>

The background of the slide is a solid red color. It features several white hexagonal shapes of varying sizes and opacities scattered across it. Some hexagons are solid white, while others are semi-transparent, creating a layered effect. The hexagons are positioned in the upper and middle sections of the slide, with some appearing near the top edge and others further down.

Thank you

Backup

North America Standards Spring 2017 Meetings

- April 3–6 @ SEMI Headquarters
- Meeting Locations:
 - SEMI Headquarters: 673 S. Milpitas Blvd, Milpitas, CA 95035
 - KLA-Tencor : Building Three, Three Technology Drive, Milpitas, CA 95035
 - Silicon Wafer task forces and committee meeting
- Meeting Schedule



**Standards Reception and Networking Event on Tuesday,
April 4th from 6:00 PM to 7:30 PM at SEMI HQ.**

Updates to *Regulations* Governing SEMI Standards Program Approved

- Nov 10, 2016 Edition of the *Regulations* and *Procedure Manual* Now Available
- In late October 2016, the *International Standards Committee* (ISC), the governing body for the SEMI International Standards Program, approved changes to the *Regulations Governing the SEMI Standards Program*.
- Details are in the attachment for these changes.



RegulationUpdat
es_Nov-2016

Recipients

- JRSC Honor Award
 - Morihisa Hoga/Dai Nippon Printing
 - Makoto Ishikawa/Nisshinbo Mechatronics
 - Naokatsu Nishiguchi/SCREEN Business Support Solutions
 - Hideaki Ogihara
- SEMI International Collaboration Award
 - Lauren Crane/Tokyo Electron
 - Naoko Murata/Tokyo Electron
 - Ryuji Takeda/Global Wafer Japan
- SEMI Japan Standard Award
 - Tetsuya Nakai/SUMCO

2016 SEMI Standards Excellence Award

- Terry Asakawa/Tokyo Electron
 - envisioned how the SEMI Standards Program could effectively address simpler, flow-oriented manufacturing in industries outside of semiconductor manufacturing.
 - active in development work to enhance the GEM300 Standards with contemporary concepts such as schemes for secure recipe management and use of prediction in real time carrier logistics controls.
 - continues to make major contributions to increasing the usability and relevance of SEMI equipment communication Standards, which are essential to Smart Manufacturing.



Doc. 5970-LI1 (NA EHS) がA&Rで否認された経緯

- 2016年5月A&R:否認
 - 理由:
 - S14のタイトルの一部“Safety Guidelines” から“Safety Guideline”の変更をバロットにかけず、バロットレビュー時にEditorial Changeで処理 (PM. Appendix 4違反)
- 2016年7月 (SEMICON West 2016) NA EHS TC Chapter Meeting:
 - TC Chapter会議で前回会議でのEditorial Changeを取り消す決議 (Re-adjudication)を行い、Non-Conforming Title状態の5970をそのまま承認してA&Rに送った
- 2016年8月A&R:否認
 - Re-adjudicationが正当化されるかどうかを中心に議論、以下の理由で否認
 - Regs/PMには「Re-adjudicationは禁止」という文言はないものの、AdjudicationをBackground Statementに示された日に行うことを義務付ける規定している。
 - Robert Rules of Order中のReconsider (Motionの再審議)は会議当日中にしか適用できないと規定している。
 - 同じく、Robert Rules of Order中のRescind (議決内容の再審議)に関しても、議決に基づきAction (今回の場合はA&R審議・否決etc)が起こされ、それをそのActionが取り消し不可能な場合には適用できないと規定している。

Doc. 5970-LI1 (NA EHS) がA&Rで否認された経緯（原文）

- ① もともと5970はNon-conforming Titleであることを指摘するComment (Larryから)を受け取っていたのですが、NA EH&S TC ChapterはLarryからのRecommendation「次の利用可能サイクルでProcedure Manual Appendix 4にしたがってタイトル修正をかけること」と言うのを無視し、Editorial Changeを使ってNon-conforming Titleを修正して委員会審議を通過しA&Rに送られました。(4月)
- ② A&Rは5970を手続き違反(Procedure Manual Appendix 4)として否認しました(5月)
- ③ NA EH&S NA EH&S TC ChapterはSEMICON West時のTC Chapter会議で前回会議でのEditorial ChangeをUndoする決議(Re-adjudication)を行い、Non-Conforming Title状態の5970をそのまま承認してA&Rに送りました(7月)
- ④ A&RではRe-adjudicationが正当化されるかどうかを中心に議論されました。結局(i)Regs/PMには「Re-adjudicationは禁止」という文言はないものの、AdjudicationをBackground Statementに示された日に行うことを義務付ける規定と、(ii)Robert Rules of OrderのなかのReconsider (Motionの再審議)は会議当日中にしか適用できず、(iii)同じくRobert Rules of OrderのなかのRescind (議決内容の再審議)に関しても議決に基づきAction (今回の場合はA&R審議・否決etc)が起こされそれをそのActionが取り消し不可能な場合には適用できない。という理由で再びA&Rでは否認されています。(8月)

JRSC Topics

- Japan Micropatterning TC Chapter has been disbanded
- JRSC Membership Change
 - Noriyoshi Toyoda (Hirata Corporation) appointed as PI&C Japan TC Chapter Chair
 - Morihisa Houga (DNP) stepped down from the chair position due to disbandment of Micropatterning Japan TC Chapter
 - Hiromu Takatsuka (PVTEC) stepped down from the chair position of PV Japan TC Chapter