

## Taiwan EHS Committee Meeting Summary and Minutes

1 April, 2014, 10:40-12:45  
Association of Industries in Science Parks (ASIP)  
HsinChu, Taiwan

**Table 1 Meeting Attendees**

Co-Chairs: F. M. Hsu/TSMC, Y. W. Yu/SAHTECH

**SEMI Staff:** Terry Tsao/ Cher Wu

E Name	Company	E Name	Company
Lone-Yee Yee	AMAT	Y. H. Huang	Innolux
Benny Chen	AUC	C. F. Chai	NCREE
Eric Lin	Epistar	Eddie Wu	Nexpower Technology Corp.
Fred Wei	Hermes Microvision, Inc.	Lillian Tsai	Praxair
Jean Yang	Innolux	Chien-Chang Huang	SAHTECH
Colin Shen	MXIC	Shuh-Woei Yu	SAHTECH
Fang-Ming Hsu	TSMC	Ben Sugisaka	SEAJ
Calvin Lee	TSMC	Steve Hsu	DAS Asia Ltd. Taiwan Branch
Po-Wen Wu	UMC	Alvis Chen	SIEMENS
Jason Hsu	Innolux	Andreas Herrmann	SIEMENS
Po-Sheng Chang	AIR LIQUIDE	Yu-Chiao Su	SIEMENS
Evelyn Lu	ASE	Y. H. Huang	Innolux
Vicky Yi	ASE	C. F. Chai	NCREE
Richard Hsieh	ATMI Taiwan Co., Ltd.	Eddie Wu	Nexpower Technology Corp.
Bright Wu	BELFOR (Asia) Pte Ltd Taiwan Branch	Lillian Tsai	Praxair
Tzu-Chen Kang	BELFOR (Asia) Pte Ltd Taiwan Branch	Chien-Chang Huang	SAHTECH
Vincent Lo	BELFOR (Asia) Pte Ltd Taiwan Branch	Shuh-Woei Yu	SAHTECH

**Table 2 Leadership Changes**

None

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

None

**Table 4 Authorized Ballots (or move to Section 7, New Business)**

None

**Table 5 Authorized Activities (or move to Section 7, New Business)**

None

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

None

**Table 7 Previous Meeting Actions Items (or move to Section 8, Action item Review)**

None

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

**1 Welcome, Reminders, and Introductions**

Committee Co-Chair F. M. Hsu (TSMC) and S. W. Yu (SAHTECH) called the meeting to order at 10:40. After welcoming all attendees. Attendees introduced themselves.

**2. Review of Previous Meeting Minutes**

Last meeting mainly discussed on the Safety Guidelines Translation project.

**3. SEMI Staff Report**

Japan has established two working groups to connect with Taiwan group. They are the REACH group and the Facility group. So, there might be a good SIG for sharing information between Taiwan and Japan.

**4. Working Group Update**

- 4.1 Overall TF Update by Dr. C. C. Huang/SAHTECH. Dr. Huang updated the current industry issues in Taiwansuch as Occupational Safety and Health Act's impact on high-tech equipment safety :
  - Equipment and Mechanical appliances impact
  - Explosion-proof electrical impact
- Fire Act impact on high-tech plant

Fire protection system in MO chemical room should be followed (or should follow) by water reaction and flammable liquid requirements. It is still difficulty on Cleanroom fire protection.

- SEMI Japan Energy-Saving Cooperation



- Propose technical manual to explain assumption and derivation of S23 convection factors
  - Proposed tank N2 conversion factor
  - Agree on Japan’s suggestion to have the common view on the ECF ranking of N2 and CDA. It affects the equipment energy saving design. The Committee is going to work on this issue first. Will continue collecting related information of technical manual.
- SEMI High-Tech Facility Committee Fire Protection task force is proposing the following issues.
- Cleanroom exhaust system - multi-zone desmoke effectiveness validation
  - Cleanroom exhaust system - Subfab desmoke control effectiveness validation
  - Sprinkler system-subfab action verified
  - Local water mist protection verified
  - Very early smoke detection system location under wafer slab evaluation verified
  - Establish visualization safety expert system for HPM location

**5. Old Business**

None.

**6. New Business**

None.

**7. Action Item Review**

- ✓ Dr. C. C. Huang/SAHTECH to work with Dr. Tsai/NCREE for Seismic Topics and feedback to SEMI NA and SEMI Japan.
- ✓ Co-chairs recommended to form a working group to study the impact of Occupational Safety and Health Act on high-tech equipment safety. Assigned Dr. C. C. Huang as working group leader, invited Dr. Po-Wen Wu/UMC, Eric Lin/Epistar, Jean Yang/Innlux, Yee-Long Yi/AMAT, Representative/Siemens as team members to work on the said Act. Warmly invite Siemens to join this group to share EU regulations on risk management of process equipment.

**8. Next Meeting and Adjournment**

TBD.

**Respectfully submitted by:**

**Cher Wu**  
**SEMI Taiwan**  
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**Email: cwu@semi.org**

Minutes approved by:

F. M. Hsu (TSMC), Co-chair S. W. Yu (SAHTECH), Co-chair	<Date approved> April 14 ,2014
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**Table 9 Index of Available Attachments #1**

#	Title	#	Title
1	<u>Taiwan EHS Committee Meeting Summary and Minutes on 20140401</u>	3	<u>SEMI EHS Report by Dr. C.C. Huang of SAHTECH</u>
2	<u>SEMI Project 03252014 by Dr. C. C. Huang of SAHTECH</u>	4	<u>2013 Fall Seismic L-TF Report Crane Staff Report</u>

#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 [SEMI Staff Name] at the contact information above.