

Welcome to the 3rd Annual SWTest Asia in Taiwan

Jerry Broz, Ph.D.

General Chair, SWTest Asia

Advanced Probing Systems, Inc.

Clark Liu
Technical Program Chair, SWTest Asia
Taiwan MJC Co., Ltd.

Hsinchu, Taiwan, October 26-28, 2022

It's Great to Be Back in Taiwan!



Update for 2023 - Save the Date!



SWTest Asia will return to Taiwan!

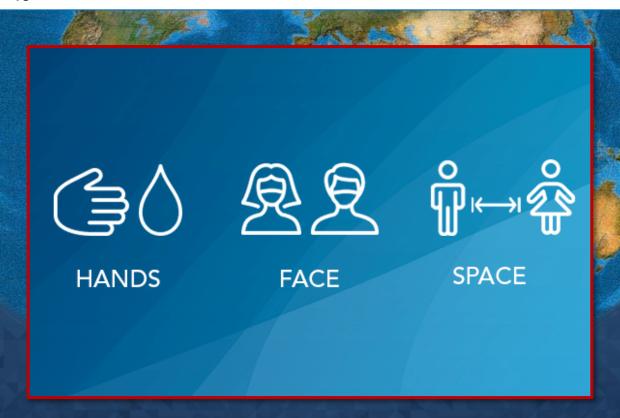
November 1 to 3, 2023

Hsinchu, Sheraton

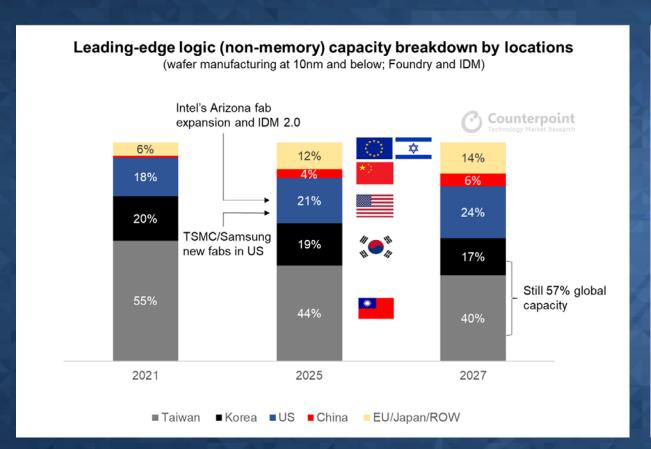
Health and Safety at SWTest Asia 2022

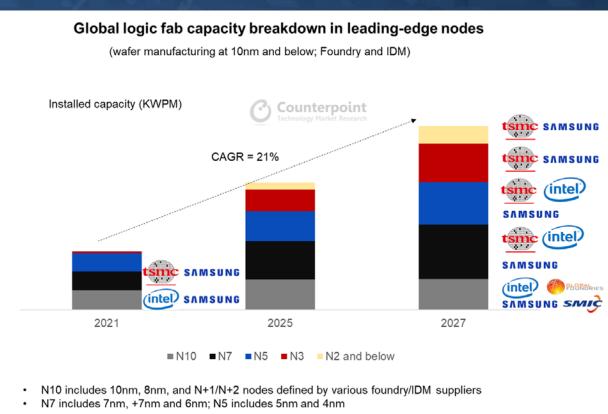
Masks are Required at ALL Times during the Conference

(**protect** our close-knit, international test community)



A Global Semiconductor Initiative





SWTest Conferences and Expos

• SWTest Conferences are Probe Technology Forums ...

- Premier Conferences for Wafer Test Professionals and Probing Technologists.
- Balanced mixture of manufacturers and suppliers as well as collaborative presentations
- Practical solutions to real problems that are faced by test engineers



Held During Every October In Asia Region

Thirty-Two Combined Years of Probe Technology ...

- SWTest Asia brings a "workshop style" conference to Asia
 Semiconductor community.
- SWTest in San Diego has hosted more than 10,000 worldwide professionals to discuss probe technology.

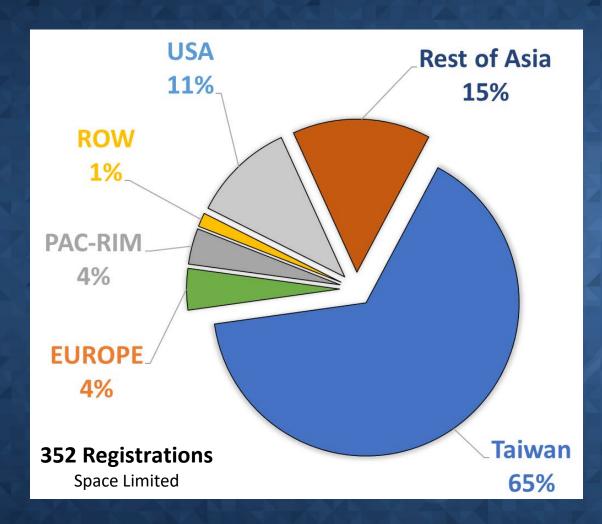
Informal and Networking Conferences ...

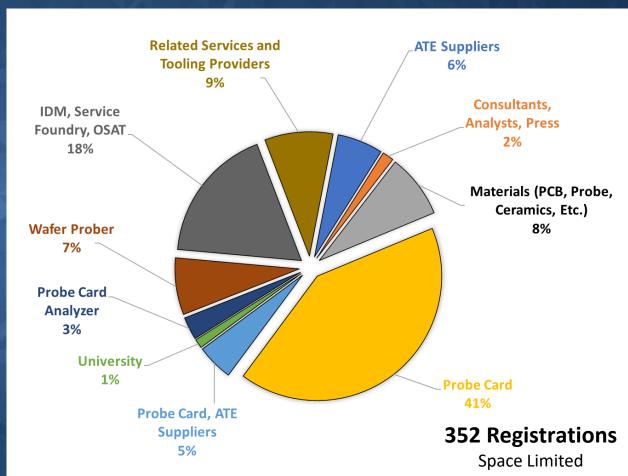
- Focused technical exchange
- Great social activities and informal discussions
- Meet new people and have a little fun!



Held During Every June In San Diego, CA

SWTest Asia 2022 Demographics





SWTest Asia Chairs and Committee

SWTest Asia Chairs

- Dr. Jerry Broz, General Chair (Advanced Probing Systems, Inc. USA)
- Clark Liu, SWTest Asia Technical Program Chair (Taiwan MJC Co., Ltd. Taiwan)
- Rey Rincon, Technical Program Co-Chair (PTSL, Inc. USA)
- Maddie Harwood, Finance and Conference Management Chair (SWTest Conferences)

SWTest Asia Steering Committee

- Nobuhiro Kawamata (Formfactor, K.K. Japan)
- Eric Chia-Cheng Chang (Intel Corporation USA)
- Alex Yang (MPI Corporation Taiwan)
- Alan Ferguson, Ph.D. (Oxford Lasers, Inc., United Kingdom)
- Joey Wu (SWTest Member at Large Taiwan)

SWTest Asia Benefit Tournament



Wednesday, October 26, 2022 Support Travel Grants for Students



SWTest Asia 2022 on October 27 to 28

Thursday, October 27

- Technical Program with 2-podium sessions
 - 1300 1315: Welcome to SWTest Asia 2022
 - ─ 1315 1445: Getting Manufacturing Smarter
 - ─ 1600 1730: Meeting Process Challenges
- SWTest Asia EXPO 2022 with key suppliers
- Technology Showcase Presentations by Platinum Sponsors
- Welcome Reception in Expo Hall

Friday, October 28

- Keynote from <u>Colley Hwang</u>, Founder and Chairman, Digitimes-Asia
- Technical Program with 3-podium sessions
 - 1100 1230: Test Challenges and Solutions
 - 1400 1530: Power, Magnets, and Memory
 - ─ 1600 1730: Testing for the Next Generation
 - Awards for "Best Presentations" selected by committee.
- SWTest Asia EXPO 2022 with key suppliers
- Technology Showcase Presentations by Platinum Sponsors
- Closing Reception in Expo Hall

Platinum Sponsors















Gold Sponsors











Welcome!









Silver Sponsors





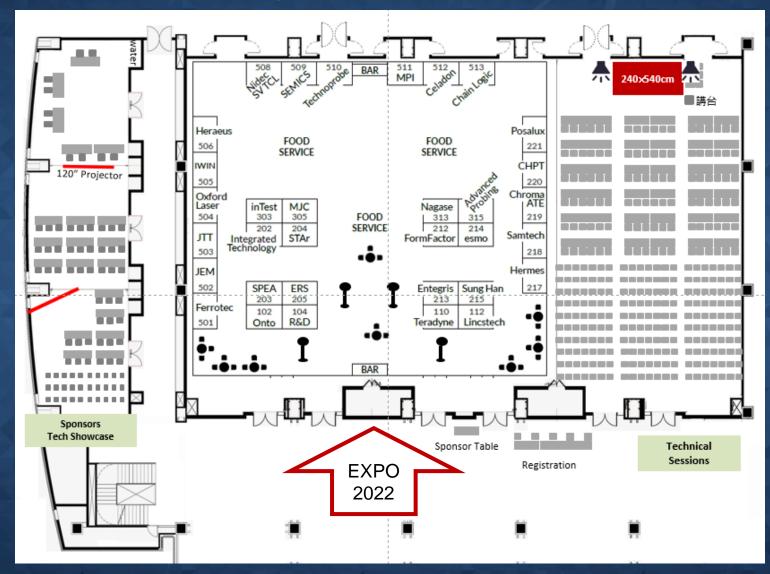








Map of the Area

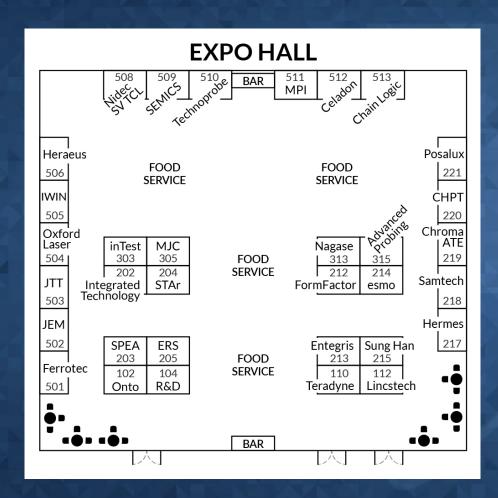


Technical Program

Sponsors

Tech Showcase

SWTest Asia 2022 in Taiwan Expo



SWTest Asia Expo - Exhibitors

- Advanced Probing Systems, Inc.
- Celadon Systems, Inc.
- Chain-Logic International Corp.
- Chroma ATE, Inc.
- · CHPT, Co., Ltd.
- ERS electronic GmbH
- esmo Taiwan Co., Ltd
- Ferrotec Material Technologies Corp.
- FormFactor Inc.
- Heraeus Deutschland GmbH & Co. KG
- Hermes Testing Solutions Inc.
- Integrated Technology Corporation
- International Test Solutions / Entegris
- inTEST EMS
- IWIN Co., Ltd.
- JEM Taiwan Probe Corp.

- JTT Test Solutions Partner Co., Ltd
- · Linstech Co., Ltd.
- MPI Corporation
- NAGASE (Taiwan) Co., Ltd.
- Nidec SV TCL
- Onto Innovation
- Oxford Lasers Ltd.
- Posalux SA
- R&D Altanova, Advantest Group
- Samtec
- SEMICS Inc.
- SPEA S.p.A.
- STAr Technologies, Inc.
- Sung Han Co., Ltd
- Taiwan MJC
- Technoprobe
- Teradyne



Technical Program SWTest Asia 2022

Thursday, October 27, 2022

Hsinchu, Taiwan, October 26-28, 2022

Thursday, October 27, 2022

10:45 to 12:15 - Getting Manufacturing Smarter

Probecard Challenges for Expanding Arrays of Fine Pad Pitch Devices to Test Under Wide Temperature Range

Pouya Dastmalchi, PhD, and Cameron Harker (Formfactor – USA)

TestGeni - Test Development Intelligent Automation

Senthil Kumar Dhamodharan, Nachiappan Gnanasambandam, Vaishnavi Saravanan (Caliber Interconnect Solutions Pvt Ltd - India)

Advanced Testing Technology for Future Requirement

Scott Huang (Kore Semiconductor Co., Ltd. - China)

3rd Annual SWTest Asia | Taiwan, October 27-28, 2022

Thursday, October 27, 2022

15:30 to 16:00 - Meeting Process Challenges

Thermal Stability and Properties Of PALYSIUM Revolutionary Probe Material

Dr. Jonas Fecher (Heraeus Deutschland GmbH & Co. KG - Germany)

New Generation of Kelvin Spring Pins

Lambert Brost (Technoprobe - USA) and Ming-Ting Wu (Microfabrica)

Probe Card Market Dynamics in a Turbulent World

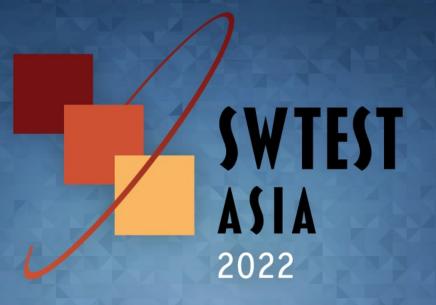
John West and Lin Fu (Yole Intelligence - United Kingdom)

SWTest Asia 2022 – Technical Program Day 1



SWTest Asia 2022 – Expo Day 1





Technical Program SWTest Asia 2022

Fridaday, October 28, 2022

Hsinchu, Taiwan, October 26-28, 2022

9:00 to 9:15 - Welcome to SWTest Asia

Dr. Jerry Broz (SWTest Asia General Chair) and Clark Liu (SWTest Program Chair)

9:15 to 10:15 - Visionary Keynote Speaker

Semiconductor, the Information and Communication Technology (ICT) Supply Chain and Geopolitics

Colley Hwang

Digitimes Founder and Chairman





3rd Annual SWTest Asia | Taiwan, October 27-28, 2022

11:00 to 12:30 -Test Challenges and Solutions

Validation of 55GHz Octal-site Wafer Test Probecard for 5G mmWave device

Peter Cockburn (Cohu, Inc. - United Kingdom)

Aging parametric testers versus determining measurement system vitality

Mike Palumbo and Jeff Arasmith (Technoprobe - USA)

High Parallelism Probe Card on V93K Direct-Probe[™] System to Increase Testing Throughput on Automotive IC

John Kao (Formfactor - Taiwan)

14:00 to 15:30 - Power, Magnets, and Memory

Testing challenges for latest SiC and GaN devices

Elia Petrogalli (SPEA S.p.A. - Italy)

Wafer Level Magnetic Testing of STT-MRAM for Process Control and Chip Sorting in Volume Manufacturing

Siamak Salimy (Hprobe - France) and Henry Chung (HTSI - Taiwan)

Next Generation DRAM Temperature Requirements and Impacts to Full Wafer Contactor Probe Card Performance

Myung Jin Lee (FormFactor - USA) and Hyun Ae Lee (Samsung Electronics - Korea)

3rd Annual SWTest Asia | Taiwan, October 27-28, 2022

16:00 to 17:30 - Testing for the Next Generation

Challenges and Improvement Actions for HPC Wafer Testing

Oscar Lee, Harvey Lin, and Hung I Tsai (TSMC - Taiwan)

Known Good Die Memory Wafter Test Challenge Beyond DDR5 4GHz/8Gbps Speed

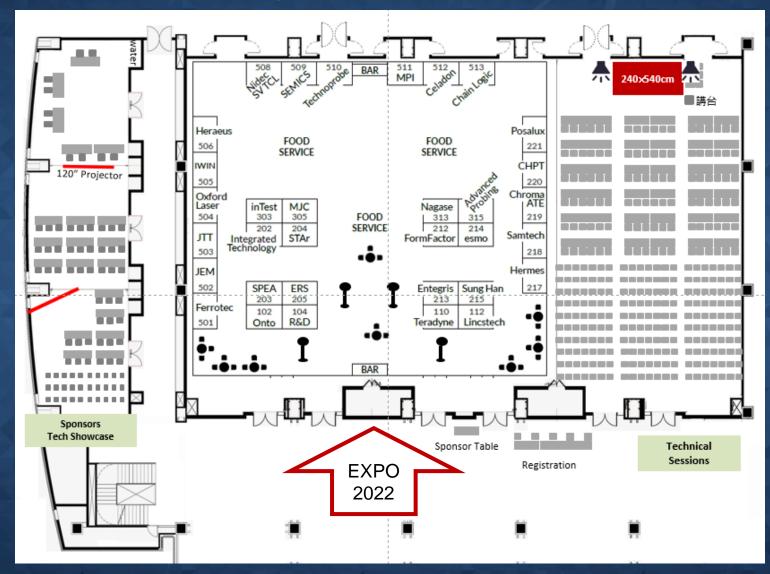
Alan Liao (FormFactor - USA)

High wattage dissipation under temperature A new method for test evaluation

Klemens Reitinger (ERS electronic GmbH - Germany)

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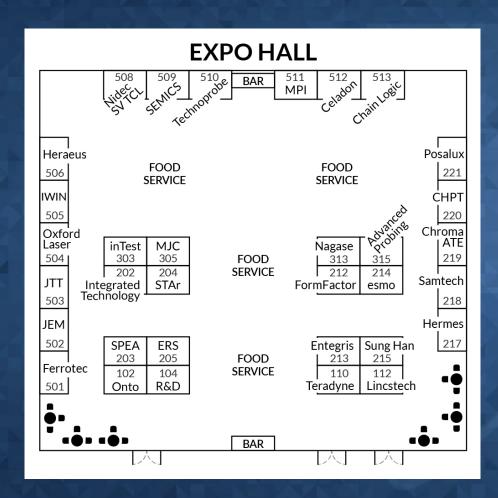


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- Technoprobe
- Teradyne

SWTest Asia 2022 in Taiwan – Technical Program





SWTest Asia 2022 in Taiwan - Expo



Update for 2023 - Save the Dates!



SWTest Asia will return to Taiwan!

Nov 1 to 3, 2023 Hsinchu, Sheraton



SWTest will be Back in San Diego!

June 4 to 7, 2023 Omni La Costa, California

Thanks for your Support!

Contact the SWTest Asia Team with any questions

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