

LETTER FROM THE NEW DIRECTOR

Welcome to the SEMI Smart Manufacturing June Newsletter! As you know, this initiative started several years ago with the extraordinary efforts of a few committed individuals, led by Tom Salmon. In April this year, after many fruitful years at SEMI, Tom decided to hang it up and hand over the reins to yours truly. Having joined the amazing SEMI team in April, I have the distinct pleasure of continuing to build on all the amazing work done by Tom, his team, and of course our members, and I look forward to your support as we march towards our Smart Manufacturing future.

As GEC Chair Bobby Mitra (TI) mentioned in the last newsletter (1Q2022), important steps have been taken towards making SEMI Smart Manufacturing effort more global through the formation of the Global Executive Committee (GEC) comprising the chairs and vice-chairs of the 7 SEMI regions worldwide (Americas, Europe, China, Taiwan, SE Asia, Japan, Korea). We will continue to provide value, **connecting** our members, **collaborating** to address specific challenges, and by **innovating** to define, clarify and propose solutions to the challenges of Smart Manufacturing.

We are excited to provide an update on the Smart manufacturing Initiative and are highly appreciative of your support in this key industrial initiative.

I hope to meet you all next month at **SEMICON WEST!**



Mark da Silva
Senior Director



FEATURED ARTICLES

Increasing Manufacturing Output: The Same Challenge in the Chip and Steel Industries



A steel mill and a 200mm semiconductor fab face a similar challenge: How to improve output, whether in Tons Per Year (TPY) or Wafer Starts Per Month (WSPM), while saddled with a capital equipment footprint that cannot be readily replaced or easily expanded. Nikunj Mehta, CEO of Falkonry, suggests mapping Overall Equipment Effectiveness factors to specific tasks that analytics can enhance.

When Cybersecurity Standards Meet Management



Ming-Chang (Bright) Wu, a founding member of Cybersecurity Committee at SEMI Taiwan, shares his views on how the new wave of international cybersecurity standards put emphasis on the domestically overlooked issues of corporate cyber risk management but also pave the way for research and application of holistic enterprise cybersecurity posture, driving the best practices of international digital resilience.

REGIONAL CHAPTER NEWS

Global

The **Global Executive Committee (GEC)** held its quarterly meeting on June 16th, 2022. To align the identified focus areas of talent development and sustainability, the GEC was pleased to hear from invited speakers Shari Liss (Executive Director, SEMI Foundation) and Mousumi Bhat (VP Global Sustainability SEMI) respectively! Next (Q3) meeting will be held in mid-September (2022).

Americas

The Americas chapter subcommittees on Guidelines and continue to make good progress. In the **Guidelines sub-committee**, co-chairs Andrew Seward (TEL) and David Gross (Siemens) have helped guide the team to a substantial draft of the Smart Manufacturing Maturity Assessment Model. In the **Fab sub-committee**, the co-chairs Mike Rendon (NXP), Dan Jakob (Onsemi), and Surya Iyer (Polar Semiconductor) continue to refine the scope of the Next Generation FDC effort. A preview of both initiatives, will for the first time be shared at a **Special SEMI session** on July 12th (at 4pm).

Taiwan

Taiwan Chapter is leading the development of a **Member Survey on Autonomous Factory of the Future**. The survey will be rolled out to wider global membership in July.

China

Establishment of the Greater China region **GEM 300 Task Force** has been approved. Members include HLMC, Intel, NAURA, AMEC, BEST, SMEE, Kxware, Cimetrix, AIE and Neucloud. The taskforce will work jointly with global SEMI efforts in this area. For the first phase, the focus will be on application use cases from equipment suppliers and fabs.

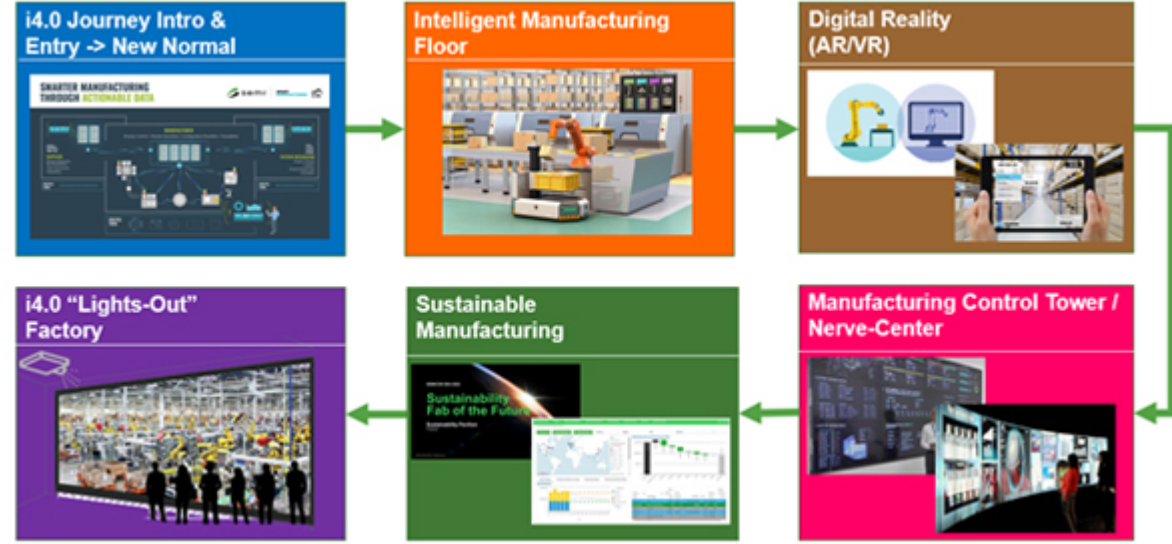
India

The India Semiconductor Manufacturing Advisory Committee ("I-SMAC") comprises of leading experts from the semiconductor manufacturing industry and academic ecosystem and met recently to discuss new government policy for semiconductor industry.

Event Recap

SMART AND SUSTAINABLE MANUFACTURING JOURNEY AT SEMICON SOUTHEAST ASIA | JUNE 21-23, 2022

SEMICON Southeast Asia 2022 commemorated Malaysia's 50th Year of Manufacturing Excellence and celebrated Penang's reputation as the Silicon Valley of the East, built on decades of manufacturing excellence and industrial experience. As part of Malaysia's jubilee celebration, attendees enjoyed several special features. One of them took attendees on an **immersive journey** focussing on the below sections to accelerate the adoption of smart manufacturing technologies and sustainable practices.



SMART Enterprise Forum

Another attendee favorite was the Smart Enterprise Forum where leaders from the industry shared how organizations can harness the power of smart solutions to unlock greater productivity, evolve and grow along with the changing needs of the market. Key speakers included Kulicke & Soffa, Qualcomm, Infineon, Micron, Advantest and many more.



Sponsored by Flexicon and LYNCEUS

FUTUREFAB WEBINAR | ONLINE | SEMI EU | JUNE 21, 2022

FutureFab Solutions | Adopting AI-driven Smart Manufacturing Technologies: Case Studies from Seagate Technology and Tier 1 Automotive Suppliers. What will the future of wafer fabrication look like?

Two disruptive deep-tech companies, Flexicon and Lynceus AI, introduced their cutting-edge technologies and discussed the efficiency gains from deploying these solutions in production. [View the recording here.](#)

UPCOMING EVENTS

SMART MANUFACTURING PAVILLION AT SEMICON WEST | JULY 12-14, 2022

SEMI Smart Manufacturing Pavilion, an attendee favorite, returns to SEMICON West 2022. Join us as top-level speakers from notable companies delve into **5 powerful sessions**:

- Smart Manufacturing and Supply Chain
- Best Practices for the Smart Manufacturing Ecosystem
- Data Utilization & Analytics for Smart Manufacturing
- Digitization for Achieving the Next Node Challenges
- Turning the Data-AI Hype into Manufacturing Value for Microelectronics
- **Special Session:** SEMI will present a **preview of AI Factory of the Future** and ongoing efforts to establish a **Smart Manufacturing Maturity Assessment Model**, as well as a **roadmap to Next Generation FDC**.



STEP CLASS: INTRODUCTION TO RITdb IMPLEMENTATION ON A TEST FLOOR | SEMICON WEST | JULY 12, 2022

Looking to take advantage of Industry 4.0 to bring order to the chaos of your semiconductor test process. Come to the **SEMI RITdb (E183) 4-hour workshop** to learn how the implementation of the latest SEMI Standard for test floor data and events sharing can improve the productivity of your test operations.



SMART MANUFACTURING EXPO, TAIPEI, TAIWAN | SEPTEMBER 14-16, 2022

The expo returns this year and will be the largest in scale in its own history. Get ready to see the latest technology firsthand from smart manufacturing solution providers across the high-tech manufacturing industry, system integrators, software and hardware vendors, and smart manufacturing demand-side players.

- > [Smart Manufacturing Expo Taiwan Exhibit List](#)
- > [Cybersecurity Pavilion Exhibitor List](#)



GLOBAL SMART MANUFACTURING CONFERENCE | OCTOBER 18-21, 2022

Get ready to accelerate the ROI on your manufacturing innovations. Save the date and make plans to join us for the 3rd annual Global Smart Manufacturing Conference. Program will be spread across multiple days and time-zones so that attendees from different regions can participate.

Questions? [Start here.](#)

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