

ASMC

VIRTUAL EVENT

Navigation Guide

BEGINS: Monday, August 24, 2020 @8:30am EDT
ENDS: Saturday, September 26, 2020 @5:00am EDT

VIRTUAL ASMC 2020 OVERVIEW

Welcome to ASMC! Thank you for registering for this year's conference. We regret that we are unable to meet in person in lovely Saratoga Springs, NY. However, we want to bring you ASMC 2020 from the comfort of your home or office, with no travel required. To enhance your conference experience, we recommend you review this **Navigation Guide**.

All virtual content is found on the ASMC Agenda via password-protected pages. Click on any "Watch Now" links to enter the Virtual Page for that session. You will be required to enter a password in order to access each page. We recommend opening multiple tabs so you can toggle between the Virtual Program Pages.

[ASMC 2020 LOGIN PAGE](#)

ACCESS TO VIRTUAL PROGRAM PAGES IN THE AGENDA: Click on "**Watch Now**"

LOGIN: Enter the password located in the **Attendee Welcome Email** sent on Friday, August 21 PDT. *Password cannot be shared.*

If you registered after this date, please email Margaret Kindling, mkindling@semi.org

[EVENT GUIDE](#)

PROGRAMS ACCESS

- **Begins: Monday, August 24, 2020 @ 8:30am EDT**
- **Ends: Saturday, September 26, 2020 @ 5:00am EDT**

All programs are in Eastern Daylight Time (EDT).

All presentations are pre-recorded unless specified [LIVE].

[SIMULIVE] are pre-recorded presentations available at indicated times.

SYSTEM REQUIREMENTS

- **Accessible devices:** Computer or tablet
- **Best browsing experience:** Google Chrome or Firefox
- **Minimum network requirement:** 1.4 Mbps

[LIVE] SESSIONS ON ZOOM (Tuesday & Wednesday): Either download the Zoom app or use Zoom browser to participate in the [LIVE] Panel Discussion (Zoom Webinar) and Open Discussions (Zoom Meetings). Zoom login details will be accessible from the Panel Discussion and Open Discussion Virtual Pages. If you have never used Zoom, please consider viewing this [basic tutorial](#).

PROCEEDINGS: The link to ASMC Conference Proceedings is located at the top of every Technical Track Virtual Page.

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WATCH ON-DEMAND TECHNICAL TRACKS

ON-DEMAND | TECHNICAL TRACKS (Include Presentations Originally Scheduled as Posters)

Yield Enhancement / Yield Methodologies

[Watch Now](#)

Sessions 1 & 10

Advanced Metrology

[Watch Now](#)

Session 2, 11, and 15

Defect Inspection

[Watch Now](#)

Session 3 and 8

To view the session, click on "Watch Now" to have full access to the presentations in the track.

You will be prompted for the password every time you open a new track page.

Virtual Pages on the ASMC Agenda will be available starting on Monday, August 24, 2020 at 8:30am EDT.

Click on "Watch Now" to open the Virtual Page for that specific **Technical Track**. Enter password.

SESSION 1, SESSION 10 & SESSION 5

Access ASMC 2020 Technical Proceedings

CHAIRS: **Ishtiaq Ahsan**, IBM Research; **Janay Camp**, KLA; **Gary Green**, Green Technology Consulting; **Dieter Rathei**, D R Yield; **Sagar Kekare**, KLA; **Reshmi Mitra**, Samsung Austin Semiconductor; **Larry Pulvirent**, SkyWater Technology

SESSION 1: Yield Enhancement / Yield Methodologies

Jump to:

- 1.1 [Manuscript] [Simulated CWAC to Eliminate 1st Wafer Effect and Improve Process Capability](#)
Kunal Raghuvansi, John LeClair, Dmitry Zhernokletov, Samsung Austin Semiconductor
- 1.2 [Video] [Middle of Line \(MOL\) Process Investigation in Ring Oscillator Failure](#)
Victor Chan, M. Bergendahl, S. Choi, A. Gaul, J. Strane, A. Greene, J. Demarest, J. Li, L. Jiang, C. Le, S. Teehan, D Gao, IBM Research
- 1.3 [Video] [Characterization of Doped Oxide Films PSG/BPSG/FSG via DSIMS in Order to Eliminate Nonzero Kilometer Failures from Semiconductors Used in Automotive Industry](#)
[Nonzero Kilometer Failures from Semiconductors Used in Automotive Industry](#)
Thanas Budri, Jeffrey Klatt, Texas Instruments
- 1.4 [Video] [Qualifying Inline Xe Plasma FIB - Returning Milled Wafers Back to Production](#)
Franz Niedermeier, Infineon; **Haim Pearl**, Applied Materials
- 1.5 [Video] [Middle of Line: Challenges and its Resolution for FinFET Technology](#)
Shiv Kumar Mishra, Erik Geiss, Aditya Kumar, Arkadiusz Malinowski, Kaushikee Mishra, Gao Wen Zhi, Wenhe Lin, Bangun Indajang, Dustin Slisher, GLOBALFOUNDRIES

Once you're on the Technical Track Virtual Page, you'll find the **Proceedings** at the top above Session Chairs.

You can access all On-Demand videos by scrolling down the page or clicking on the presentation hyperlink that will drop you down to the corresponding video or redirect you to the paper.

If only the Manuscript is available, the hyperlink will open a new tab to view the paper.

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WATCH [SIMULIVE] KEYNOTES

ATTEND THE KEYNOTES

Manufacturing Leadership in the Era of Artificial Intelligence

Thomas Sonderman, President,
SkyWater Technology

Monday, August 24, 2020

9:00 AM EDT

WATCH THE KEYNOTE

Nanoscale III-V Electronics: A Few Lessons Towards Sustained CMOS Innovation

Jesús del Alamo, PhD, Donner
Professor, Professor of Electrical
Engineering, Massachusetts
Institute of Technology (MIT)

Tuesday, August 25, 2020

9:00 AM EDT

WATCH THE KEYNOTE

Will China Take Semiconductor Industry Lead from USA?

Robert Maire, President,
Semiconductor Advisors

Wednesday, August 26, 2020

9:00 AM EDT

WATCH THE KEYNOTE

Click on “Watch Now” under **Keynotes** on ASMC Agenda to access the Virtual Page. Enter password.

The Keynotes are [SIMULIVE] and will be available starting at indicated times. Click on “Watch the Keynote” to view the presentation.

JOIN [LIVE] PANEL DISCUSSION—ZOOM WEBINAR

PANEL DISCUSSION

Exascalers, Hyperscalers: Computing at the Edge – Different Modes, Different Nodes
Sponsored by Applied Seals N.A.

Tuesday, August 25, 2020, 10:15 AM - 11:45 AM EDT [LIVE]

Please join us for an online panel discussion where distinguished panelists drawn from the AI, Exascalers, Hyperscaler, and Edge Computing communities will offer us their learned comments in a discussion with the audience on just what it is these companies need and expect from the advanced semiconductor manufacturing world, and what that means to the SEMI ASMC 2020 attendees as we deliver silicon for the AI-powered future of the 2020s, and beyond.

MODERATOR: Paul Werbaneth, Director of Product Management, Ichor Systems

PANELISTS:

- Buvna Ayyagari-Sangamalli, Head of Design Technology, Applied Materials
- Carl P. Evans III, Founder, Tercero Technologies
- Xavier Lafosse, Commercial Technology Director, Advanced Optics, Corning Inc.
- Anna Topol, PhD, Chief Technology Officer, IBM Research

WATCH THE PANEL DISCUSSION

Click “Watch Now” under **Panel Discussion** on ASMC Agenda to access the Virtual Page. Enter password.

Scroll down the page to access the Panel Discussion.

The Panel Discussion is [LIVE] on Zoom Webinar. Click on “Watch the Panel Discussion” to enter the Zoom platform.

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JOIN [LIVE] OPEN DISCUSSIONS—ZOOM MEETINGS

TUESDAY, AUGUST 25

12:00-12:45pm EDT

- » Advanced Equipment Processes & Materials (AEPM)
- » Contamination Free Manufacturing (CFM)

1:00-1:45pm EDT

- » Defect Inspection (DI)
- » Factory Optimization (FO)

WEDNESDAY, AUGUST 26

12:00-12:45pm EDT

- » Advanced Metal Structures (AMS)
- » Advanced Metrology (AM)

1:00-1:45pm EDT

- » Advanced Process Control (APC)
- » Smart Manufacturing (SM)
- » Yield Enhancement (YM)

Click on “Watch Now” under **Open Discussions** on ASMC Agenda to access the Virtual Page. Enter password.

There are nine (9) separate sessions, one for each Technical Track during four (4) allotted time as indicated in green.

The sessions are parallel Zoom Meetings. For example, there are 2 parallel sessions on Tuesday, August 25 12:00-12:45pm EDT: AEPM & CFM.

Each session will have its own Zoom link. To join the [LIVE] Open Discussion, click on the session of choice at least 5-10 minutes before the start time. You must use your full name + company in order to be admitted.

We recommend that you view technical presentations/manuscripts in advance so you can participate with content experts including speakers, committee, sponsors, and industry peers. During the allotted time, session chairs will invite participants to submit questions via chat to comment on the specific technical topic.

Please check in advance to ensure you are able to access Zoom from your browser: zoom.com/test

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WATCH [SIMULIVE] TUTORIAL

**WATCH THE TUTORIAL BEGINNING AT WEDNESDAY,
AUGUST 26 AT 10:00AM EDT [SIMULIVE]**

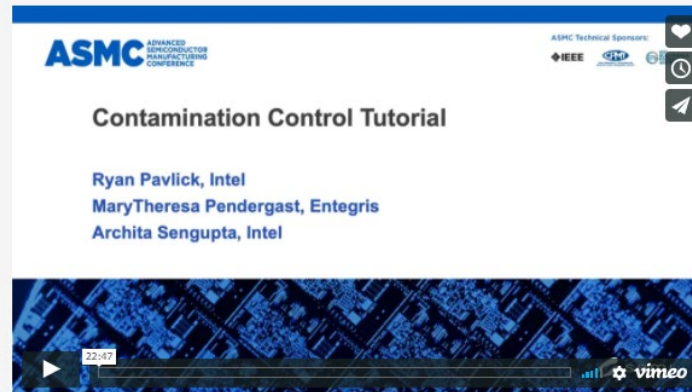
CONTAMINATION CONTROL: ENABLING HIGH YIELD MANUFACTURING

Ryan Pavlick, PhD, Filtration & Purification
Technologist, Intel Corporation

MaryTheresa Pendergast, PhD, Director of
Engineering, Entegris

Archita Sangupta, PhD, Sr. Technologist, Intel
Corporation

Video Length: 22:47



Click on “Watch Now” under **Tutorial** on ASMC Agenda to access the Virtual Page. Enter password.

The [SIMULIVE] Tutorial will be available starting on Wednesday, August 26 at 10am EDT.