

2016

# Critical Materials Conference

## Critical Materials for Device Driven Scaling

Hillsboro, Oregon | May 5-6, 2016



Hosted by the Critical Materials Council for Semiconductor Fabricators and TECHCET

### CMC Conference Overview

The Critical Materials Conference is a 2 day event, May 5-6 in Hillsboro, OR, providing actionable information on materials and supply-chains for current and future semiconductor manufacturing. Business drives the world, but technology enables semiconductor business, so we must understand the dynamics of how materials and technologies enable the scaling of devices in IC fabs. Conference speakers will provide information on critical materials used in HVM fabs, while also looking at manufacturing integration issues associated with new materials needed for future devices. Notable speakers from leading semiconductor fabricators, and materials companies, as well as leading market research firms will provide insights on this ever changing area of semiconductor process materials and markets.

### Dates and Location

**Dates:** May 5-6, 2016, following the Critical Material Council regularly scheduled Meeting (May 3-4).

**Location:** Hillsboro, Oregon  
The Embassy Suites Hotel  
20001 NW Tanasbourne Dr.,  
Hillsboro, OR 97124

### Conference Overview

**Keynote:** "Material Requirements for the Future of Semiconductor Devices"  
By Tim G. Hendry - *Vice President Technology & Manufacturing Group, Director, Fab Materials, Intel Corporation*

Three Sessions – Focused on Semiconductor Materials & Technology

- Global Issues & the Supply Chain
- Immediate Challenges of Materials & Manufacturing
- Emerging Materials Challenges

Featuring Speakers from the Material Supply Chain: IC Fab Technologists, Materials Suppliers, Equipment Suppliers, and Market Analysts

### Who Should Attend?

#### CMC Members and Industry Representatives from:

- Supply Chain/Procurement
- Business Development
- Process/R&D
- Manufacturing/Sustaining
- Quality Engineers
- Product Managers
- Yield Engineers
- Equipment Engineers
- Academia
- Facilities

### Why Attend?

#### Get the latest info on

- Process Materials & Equipment Trends
- Threats to Supply Chain
- Critical Materials Forecasts
- Vital Data for Strategic Planning

# Agenda (more details & updates at [www.cmcfabs.org/seminars/](http://www.cmcfabs.org/seminars/))

## May 4 (Wednesday, night): 5pm to 7pm, Evening Welcome Reception

### May 5 (Thursday) - Day 1

#### Session I: Global Issues and the Supply Chain

Gus Richard, Sr. Research Analyst - Northland Capital Markets  
 Risto Puhakka, President - VLSI Research  
 Lita Shon Roy, President/CEO - TECHCET  
 Keith Long, Chief Technologist - USGS Open

#### Session II: Immediate Challenges of Materials & Manufacturing

Jim Feldhan, President - Semico Research  
 Jan Vardaman, President - TechSearch International  
 Bruce Adams, Sr. Technology Analyst - TECHCET  
 Bassam Elkhatib - Texas Instruments  
 Rob Nine, Strategic Marketing - Pall Microelectronics Group  
 Jeff. Hemphill, Sr. Materials Engineer - Intel Corp.

#### Not the Usual Round Table

*\* session speakers to date, others may be added*

### Evening Reception: 5pm – 7pm

### May 6 (Friday) - Day 2 (1/2 day)

#### Session II, continued, Immediate Challenges

Jean Marc Girard, Ph.D. Chief Technical Officer- Air Liquide  
 S.I. Lee, Ph.D. Chief Technical Officer - Veeco

#### Session III: \* Emerging Materials Challenges

John Smythe, Ph.D., Advanced Technology Lead  
 DMTS - MICRON Technologies  
 Jonas Sundqvist, Sr. Technology Analyst - TECHCET  
 David Thompspon, Ph.D., Director of Process Chemistry - Applied Materials  
 Max Kelman, Ph.D., Sr. Technology Manager - Aixtron  
 Dave Roberts, Ph.D., Sr. Director Materials Development - Nantero  
 Dan Alvarez, Ph.D., Chief Technical Officer - RASIRC

#### Panel Discussion & Wrap-Up

## Conference Committee

Jonas Sundqvist, Ph.D. – Techcet Group  
 Ed Korczynski – SST / Techcet Group  
 Karey Holland, Ph.D. – MegaFluid Sys/ Techcet  
 Lita Shon-Roy, Techcet CA  
 John Housley - Housley & Associates  
 Robert Clark, Ph.D. – TEL  
 Mark Raynor, Ph.D. - Matheson Gases/TNSC  
 Todd Mosher - Zone 5

Jeff Hemphill - Intel  
 Chad Kaneshige - Texas Instruments  
 Dave Roberts, PH.D. - Nantero  
 Jim Feldman - Semico  
 Anish Tolia - Linde  
 Max Kelman, PH.D. - Aixtron  
 Alan Balderson - Kanto Chemical Corp.  
 Jean Marc Girard, PH.D. - Air Liquide  
 Qinghuang Lin - IBM

## About the Critical Materials Council (CMC Fabs)

The Critical Materials Council for Semiconductor Device Fabricators, originally started in the early 1990's by SEMATECH, actively works to identify issues surrounding the supply, availability, accessibility of semiconductor process materials, current and emerging – “Critical Materials”. They do this by collectively working to solve common materials related issues in a non-competitive environment. The CMC supports the continuous improvement of the Materials Supply Chain Community for Semiconductor Fabricators. For more info please go to [www.CMCFabs.org](http://www.CMCFabs.org) or contact [cmcinfo@techcet.com](mailto:cmcinfo@techcet.com), +1-480-382-8336.

## Registration Pricing

Early Bird Registration (to March 31)	\$349.00
Regular Registration (starting April 1)	\$425.00
CMC Members – up to two persons free. Additional persons registration fee:	\$299.00