

2017

CMC Conference

May 11-12, 2017

Agenda

Thursday, May 11

8:15-8:45am "Welcome and Opening Remarks" - Ed Korczynski & Jonas Sundqvist
"WW Materials Market and Supply Chain Dynamics Overview" - Lita Shon-Roy, President/CEO, TECHCET

I. Global Issues & Supply-Chain Challenges

Session Chairs: Ravi Laxman, Ph.D., Linde & Dave Roberts, Ph.D., Nantero

8:45 - 9:30am Keynote: Hans Stork, Ph.D., Sr. VP / CTO, ON Semiconductor "Braking' Through Barriers with Materials"

9:30 - 10:00am Scott Jones, Managing Director, Financial Analyst, KPMG
"Global MacroEconomics and Materials Trends"

10:00 - 10:30am Risto Puhakka, President, VLSI Research
"OEM Markets Dynamics and the Semiconductor Industry"

10:30 - 10:50am *Coffee Break*

10:50 - 11:20am James Votaw, Partner (Washington D.C. Regulations Expert), Keller & Heckman
"Regulatory Challenges for Novel Engineered and other Critical Materials"

11:20 - 11:50am Jack Faight, Head of Isotope Products, Linde
"Rare Gas Status"

11:50 - 1:00pm *Buffet Lunch*

Our Sponsors:



Thursday, May 11 (afternoon)

II. Immediate Challenges of Materials & Manufacturing
Session Chairs: Alan Balderson, Kanto & Mark Raynor, Ph.D., Matheson Gases

- 1:00 - 1:30pm Richard Chang, Ph.D., Founder and CEO, Zing Semi.
"300mm Wafer Production in China Meeting Demand"
- 1:30 - 2:00pm Rohit Takalakar, Sr. Materials Engineer, Samsung
"Present and Future Challenges of Wafer Specifications"
- 2:00 - 2:30pm Richard Hengst, Product Manager, CoorsTek
"Materials & Manufacturing Challenges of CVD SiC"
- 2:30 - 3:00pm Tim Dyer, Sr. Technology Analyst/VP & GM - TECHCET/Elcon
"Supply Chain Issues and Changing Market Dynamics for Ceramic Consumables"
- 3:00 - 3:20pm *Coffee Break*
- 3:20 - 3:50pm Nathan Stafford, Ph.D., Director, Air Liquide
"Fluorocarbons R&D for Technology and EHS"
- 3:50 - 4:20pm Oliver Briel, Ph.D., Director Global Business Electronics, Umicore
"Creating a Robust and Sustainable Supply Chain for High Volume Cobalt Precursors"
- 4:20 - 4:50pm Alister MacDonald, General Manager - Marketing, Alkane
"High K Resources and the Global Supply Chain for Hf/Zr"
- 4:50 - 5:20pm Tito Tang Sr. Principal Mfg Eng., Cypress & Scott Ray, President/CEO, HighQ
"CMP Slurry Recycling & Reuse Challenges and Strategies"

"The Not So Usual Round Table Reception" (5:30-8:00pm)

- 9 Tables – Session I to III Covering WW Issues
- Speakers will be stationed at designated tables
- Beer Sampling at various tables – 6 varieties
- Materials & Technology Trivia Cards
- Specially paired Appetizers
- Wine, Soda, Water
- Twitter #cmcfabs
- Look for a ★ question and win a prize

Interested in MORE Critical Materials Markets, Supply Chain and/or Technology Trends Information?

Please contact cmcinfo@TEHCET.com, +1(480) 382-8336 x 101 or go to www.TEHCET.com



Friday May 12

Coffee, tea, and pastries served at 7:30

III. Emerging Materials Challenges: Leading Edge Today

Session Chairs: Steve Consiglio, Ph.D., TEL, Jeff Hemphill, Intel, & Diane Scott, TECHCET

- 8:30 - 9:00am Eric Joseph, Senior Manager and Research Staff Member, IBM
"Materials Process Challenges for Advanced Technology and the Role of Atomic Scale Precision"
- 9:00 - 9:30am Rob Clark, Ph.D., Sr. Technical Staff Member, TEL
"Welcome to the Atomic Scale: New Paradigms and Processes for Continued Scaling"
- 9:30 - 10:00am Jonas Sundqvist, Ph.D. – Sr Scientist / Sr. Analyst, Fraunhofer IKTS/TEHCET
"Dynamic Supply-Chains for Memory – ALD Precursors"
- 10:00 - 10:20am *Coffee Break*
- 10:20 - 10:50am Darron Juradja, Semiconductor Business Unit Director – Brewer Science
"DSA Material R&D with Extraordinary Batch Control"
- 10:50 - 11:20am Nora Colligan, Principal Materials Engineer - Samsung
"Performance Impact of Critical Chemical Quality on Latest Technology Node"
- 11:20 - 11:50am Jeff Hemphill, Sr. Staff Materials R&D Engineer - Intel
Vani Thirumala, Sr. Materials Engineer - Intel
"Metrology Challenges in Controlling Liquids/Slurries"
- 12:00 - 12:25pm **Panel Discussion** Lead by Ed Korczynski, TECHCET

CMC Conference 2017 Committee Members

Jonas Sundqvist, Ph.D. – TECHCET	Ed Korczynski – SST / TECHCET
Karey Holland, Ph.D. – MegaFluid Sys/ TECHCET	Jeff Hemphill – Intel
Lita Shon-Roy - TECHCET	Chad Kaneshige – Texas Instruments
Steve Consiglio, Ph.D. – TEL	Dave Roberts, Ph.D. – Nantero
Mark Raynor, Ph.D. – Matheson Gases/TNSC	Jim Feldhan – Semico
Jean Marc Girard, Ph.D. – Air Liquide	Ravi Laxman, Ph.D. – Linde
Diane Scott, Ph.D. – TECHCET	Alan Balderson – Kanto Chemical Corp.

Thank you for Attending the 2017 Critical Materials Conference!

Interested in CMC Fabs Membership? or in Participating in Our Next Conference?

Please contact cmcinfo@TEHCET.com or go to www.cmcfabs.org