

Balazs Offers In-Booth Presentations at Semicon West 2008



Booths 5980 and 5871 (Balazs and Air Liquide)

This year at Semicon West, Balazs will be offering various 5-10 minute presentations highlighting topics related to contamination control and analytical capabilities. The format will allow you direct 1-on-1 interaction with the experts on the topic presented, in addition to a little time off your feet.

Additionally, as you will see in the schedule, Air Liquide will be presenting topics regarding its products and services using a similar format.

If you attend Semicon West, please join us for **any or all** of the presentations as listed in the schedule below. If you will not be attending Semicon but would like to hear more about these topics, please [contact us](#).

Tuesday, July 15th - Booth 5871	
11:00 AM	Air Liquide - iFlex: Chemical Point of Use Blender
11:30 AM	Balazs - Advanced Depth Profiling of Films and Defects
1:00 PM	Air Liquide - Advanced Materials for ALD and CVD
1:30 PM	Balazs - Guaranteeing the Elemental Purity of Advanced Precursors
2:00 PM	Air Liquide - TGCM Services: Taking Operational Excellence to the Next Level
2:30 PM	Balazs - Particle Troubleshooting for Tool Parts Cleaning
2:45 PM	Balazs - Analysis of Contamination in Air & Purge Gases that Degrade Steppers, Lasers, Masks, Inspection Tools & Other Optics
3:30 PM	Balazs - Comprehensive Services for Thin Film Solar Cells
3:45 PM	Balazs - Urea in Water
4:00 PM	Air Liquide - ALUX for PV Industry: Dedicated Turn-Key Offer
4:30 PM	Balazs - Maximize Bath Life; Minimize Costs

Wednesday, July 16th - Booth 5871	
10:30 AM	Air Liquide - ALUX for PV Industry: Dedicated Turn-Key Offer
11:30 AM	Balazs - Comprehensive Services for Thin Film Solar Cells
1:00 PM	Air Liquide - TGCM Services: Taking Operational Excellence to the Next Level
1:30 PM	Balazs - Tool Exhaust Analysis for Improved Process Uptime
2:00 PM	Air Liquide - iFlex: Chemical Point of Use Blender
2:30 PM	Balazs - Automated VPD ICP-MS for Localized Surface Information and Improved Detection Limit
2:45 PM	Balazs - Real Time AMC Monitoring for Semiconductor Manufacturing
3:00 PM	Air Liquide - Advanced Materials for ALD and CVD
3:30 PM	Balazs - Guaranteeing the Elemental Purity of Advanced Precursors
3:45 PM	Balazs - Analysis of Contamination in Air & Purge Gases that Degrade Steppers, Lasers, Masks, Inspection Tools, Other Optics
4:30 PM	Balazs - Characterizing Alpha Emissivity of Packaging Materials, Solders, & Other Materials

Thursday, July 17th - Booth 5871	
10:00 AM	Air Liquide - ALUX for PV Industry: Dedicated Turn-Key Offer
11:00 AM	Air Liquide - iFlex: Chemical Point of Use Blender
2:00 PM	Air Liquide - Advanced Precursor Analysis: Overcoming Obstacles

Note: Come Visit Booth 5980 at Semicon West

This year, Balazs is located adjacent to the Air Liquide booth, so you can see the full service capabilities of our organization from analytical services to chemical and gas equipment design and production.

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West2008

Focused on your processes, our space will communicate, both visually and through our on-hand technical experts, the breadth of analytical needs required to ensure efficient operations and identify contamination to its source.

When you stop by, be sure to pick up a copy of the latest AMC and UPW Guidelines along with a 'flashlight' that reveals contaminants we find in our day-to-day testing...a fun marketing token.

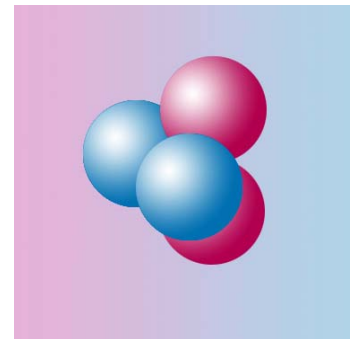
Note: Alpha Particles; Increasing Concern About Soft Error Rates

When dealing with geometries currently used in device manufacturing even minor, instantaneous excursions in the circuit can cause device errors, if not failure. Such is the case with alpha particles. Generated from natural radioactive decay of elements used in processing like solders, packaging, etc., alpha particles cause *soft errors*. Soft errors are best described as instantaneous errors in electronic devices that result in no physical changes to the circuit.

For some devices, such as real-time sensors and primary control circuits, these soft errors create the need for replicate circuitry on the same chip in order to account for the possibility of errors. While effective, replication of circuitry uses space, processing power and increases costs of device manufacturing.

Balazs examines various materials used in packaging to determine its alpha emissivity and help identify materials that decrease the likelihood of soft-errors. As with many quality control and analytical testing recommendations, baseline measurements of current materials is beneficial to assessing alternate materials and/or assessing future excursions.

[More About Alpha Emissivity](#)



Note: Abatement System Performance Testing



Exhaust scrubbers operate around preventive maintenance (PM) schedules to ensure compliance and acceptable performance. Unexpected release of hazardous substances necessitates extraordinary maintenance work and downtime.

Using FT-IR and other proprietary techniques, Balazs tests abatement systems on-site to measure their performance under 'real-world' conditions.

The value of this testing may come in several forms:

- ✓ Optimization of PM schedule, lengthening the time between shutdowns or media changes
- ✓ Rapid evaluation of abatement system performance following an accidental release or scrubber malfunction, resulting in decreased troubleshooting time.
- ✓ Baseline data to measure the impact of manufacturing process changes on scrubber performance

Please [contact](#) Balazs and let us know how we can assist you with exhaust management.

Note: Air Liquide Electronics Global Analytical Business Forms Service Partnership with Frontken Corporation



NanoAnalysis Group, the Analytical Services division of Air Liquide Electronics, announces the formation of a new business in South-East Asia under the **Balazs** NanoAnalysis brand name. This event coincides with the signature of a partnership with Frontken Corp, a leading provider of surface metamorphosis technology solutions, to offer nano-level contamination control technologies to customers in Malaysia, Philippines, Singapore and Taiwan.

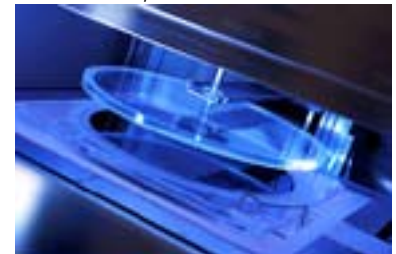
NanoAnalysis brings over 30 years of experience in identifying ultra-low level contamination as well as an expertise field covering solids, liquids, and gases used in the electronics and other high-tech industries.

Together, Frontken and Balazs NanoAnalysis will promote nano-contamination control solutions that combine cleaning, coating, and refurbishment of materials and process tool components with the most advanced analytical methods for verifying surface cleanliness, contamination control on the manufacturing floor and in process tools, along with RoHS compliance for microelectronics fabs and process industries.

Balazs NanoAnalysis will establish its office and clean laboratory in Frontken's facilities in Gul Drive, Singapore. In this partnership, Frontken will outsource its nano-analysis activities to Balazs NanoAnalysis.

Pleased with this development, Mr. Willie Wong, Frontken's Chairman cum Managing Director, said, "This long-term strategic collaboration between Frontken and Balazs NanoAnalysis creates a win-win situation, with abundant opportunities to cross-market each other's services to existing and future customers, thus widening the market reach and creating larger potential for growth for both parties."

Mr. Olivier Blachier, Director for NanoAnalysis Group, Air Liquide's global analytical business, declared, "We are very happy to sign such agreements with Frontken, and we look forward to having Balazs NanoAnalysis demonstrate the value of its offerings to our customers in this part of the world."



Note: AMC and UPW Guidelines Available



These guidelines incorporate industry oversight recommendations, methods used and identification of critical areas of concern.

Balazs makes these guidelines available to the industry free of charge. Download your copy now!

[Download AMC Guidelines](#)



[Download UPW Guidelines](#)