

**NEWS RELEASE**

[CSsales@cyberoptics.com](mailto:CSsales@cyberoptics.com)  
[www.CyberOpticsSemi.com](http://www.CyberOpticsSemi.com)

**CyberOptics Semiconductor Lays Out Steps for a Vibration Diagnosis at AEC/APC Symposium in Asia**

TOKYO - Semiconductor professionals at this year's [AEC/APC Symposium Asia](#) examined the role of vibration sensors in helping fabs employ the “data-driven and automated decision making” promoted at the symposium during a poster session by Yukinobu Hayashi, an applications engineer at CyberOptics Semiconductor.

Hayashi's session at the symposium addressed how the collection and analysis of vibration and acceleration data via a wireless sensor is a good example of the industry movement to fab-wide automation and the implementation of advanced equipment and process controls.

Hayashi highlighted the need for engineers to obtain “as much information as possible,” including vibration sources, when performing costly and time-consuming equipment maintenance for sensitive processes in compact environments.

“When you vent a vacuum chamber to atmospheric pressure, cool down high-temperature tools and expose clean spaces to fab surroundings, you have a great opportunity to obtain empirical data on vibration,” Hayashi said.

Hayashi added that without precise data, engineers aren't able to locate persistent vibration sources and set advanced controls for a process to reduce vibration.

At the symposium, Hayashi detailed how to employ a wafer-like sensor in sensitive processes to conduct a proactive “vibration diagnosis.”

He described how engineers use the vacuum-compatible device, the WaferSense® [Auto Vibration System \(AVS\)](#), to obtain precise three-axis (x, y, z) acceleration and vibration data in real-time to identify and correct vibration sources that reduce yield. The device follows the path of a wafer in a process.

For more information on conducting a vibration diagnosis for a specific process or Hayashi's complete poster session at AEC/APC Asia, please contact [CSsales@cyberoptics.com](mailto:CSsales@cyberoptics.com).