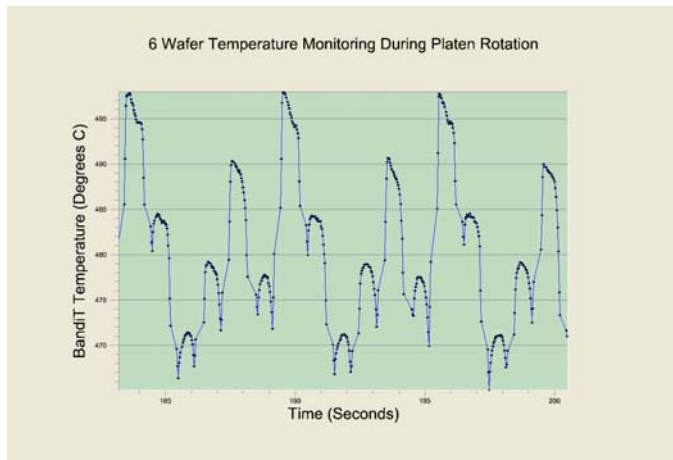




Introduction

k-Space is excited to send out its first k-Space News newsletter! We have been manufacturing thin-film monitoring products for 12 years now, and we have steadily built a large customer base. As a result, we need to keep everyone abreast of what's happening here at k-Space! We will release a new newsletter every other month. Please feel free to contact us (requestinfo@k-space.com) with any comments, or if you have an application or news item that you would like discussed in the newsletter. We look forward to hearing from you!

Temperature Mapping with BandiT



6-Wafer Temperature Mapping

Our new kSA BandiT system accurately and reproducibly monitors semiconductor wafer temperature. But did you know BandiT can easily spatially resolve temperature during substrate rotation? Because of the high sensitivity of the built-in BandiT spectrometer, short exposure times (10 milliseconds) can be used to acquire multiple temperatures across a wafer. The graph above shows the temperature profile across six 6" wafers during platen rotation. Note that approximately 20 temperature measurements per wafer are made, or a temperature measurement every 8mm.

Come See Us!

Please stop by and visit us at the following upcoming conferences:

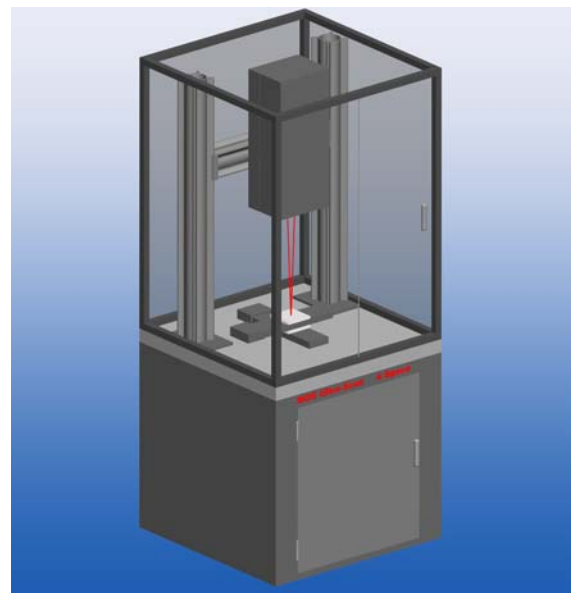
- **International MBE 2004, Edinburgh, Scotland, August 22-27**
- **Japan Vacuum Show (JVS) 2004, Tokyo, Japan, Sept 15-17**

kSA's New Website!

Check out our new website, which includes new application notes for our products, as well as a customer links page. Please let us know if you would like us to add you to the links page!

kSA MOS Ultra Scan

For the user who would like to perform *ex-situ* 2D curvature and stress measurements, k-Space has developed the kSA MOS Ultra Scan system. The Ultra Scan utilizes a computer-controlled, high resolution (1 μm) xy-stage to allow for full wafer mapping of 2D curvature and stress. Up to 6" wafers may be analyzed with a 50 km radius of curvature resolution. Ultra Scan is the latest addition to our existing suite of MOS products, including bench top versions with built-in variable temperature capabilities, and *in-situ*, real-time wafer curvature and stress monitoring.



kSA MOS Ultra Scan

New k-Space Sales Representatives

k-Space is happy to announce the addition of the following organizations to our international sales force:

richard thomson associates

Phone: +44 (1) 8657 39858

sales@rt-associates.com

(United Kingdom)



R-DEC Co., Ltd.

R-DEC Co., Ltd.

Phone: +81 29-858-0211

www.rdec.co.jp

(Japan)

Jung Won Corporation

Phone: +82 3-145-81670

www.jwc.co.kr

(Korea)