Welcome

to the

2009 International Conference on Frontiers of Characterization and Metrology for Nanoelectronics

David G. Seiler
National Institute of Standards and Technology

Alain Diebold

College of Nanoscale Science and Engineering, SUNY Albany

on behalf of our conference organizers







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Welcome to Albany!



Albany was built on the site of the Dutch Fort Orange and its surrounding community of Beverwyck. The English acquired the site from the Dutch in 1664 and renamed it Albany, in honor of James II, Duke of Albany. A 1686 document issued by Thomas Dongan granted Albany its official charter. After New Amsterdam, Albany is the second oldest city in the state in terms of its date of incorporation.

Small Times magazine ranked University at Albany's College of Nanoscale Science and Engineering as the best in the country for micro and nanotechnology. The school was tops in education, facilities and industry outreach. (2006)



College of Nanoscale Science and Engineering, University at Albany

The Land of Nano

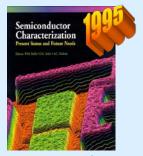


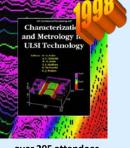




NIST Conference Series Provides Focal Point for Frontiers of Semiconductor Metrology

Proceedings Document Metrology Advances













over 280 attendees

over 295 attendees

over 235 attendees

over 200 attendees

over 250 attendees

over 230 attendees

Some Keynote Speakers



Craig Barrett, formerly President, Intel



Mark Melliar-Smith, formerly President and **CEO of SEMATECH**



Dennis Buss, VP, Silicon Tech. **Development, Texas** Instruments



Bob Helms, formerly President and CEO of **SEMATECH**



Michael Polcari, President and **CEO of SEMATECH**



Mark Durcan, COO of Micron

"If you want to meet, greet, and learn from the world's experts in metrology, this is the place to be."

Keynote Session

(Chaired by Robert Doering, TI)

- T.C. Chen, IBM Research Challenges for CMOS Scaling: Industry Directions
- Hans Stork, AMAT Enabling Technologies for Sub 20 nm Generations
- Gisele Roesems-Kerremans, European Commission, Information Society and Media / Nanoelectronics Nanoelectronics Landscape in Europe: New Opportunities for Research and Innovation
- Dan Hutcheson, VLSI Research, Inc.
 Globalized Innovation in Electronics The 4th Factor of Production: Innovation

Special Events

CNSE Tours

- A limited number of people will be able to have a guided tour through the CNSE NanoFab North during the afternoon dedicated poster sessions on Tuesday and Wednesday. Please check the registration desk for a sign-up sheet.
- Banquet, Tuesday, CNSE
 - Join us for a dinner banquet tonight.
 The speaker will be Alain Kaloyeros, Senior VP and CEO, College of Nanoscale Science and Engineering, Univ. at Albany. He will be speaking about "The 'Business' of Nanotechnology:
 Translating Innovation into Real Technological Breakthroughs."
- Barbecue, Wednesday, CNSE
 - During Wednesday evening's barbecue, we will announce the winners of the Best Paper Awards.

Semiconductor International – Official Press Sponsor

- Semiconductor International Podcast
 - www.semiconductor.net/podcastsDetail/2140366457.html

So, Who Are We?

- Mainly from the U.S., but
 - France 10
 - Germany -9
 - Belgium 2
 - And Taiwan, Singapore, Japan, China
- And within the U.S., 23 states
 - -NY 50
 - -MD-26
 - -CA 15
 - -MA-9
 - -TX-8
- And by organization
 - CNSE/SUNY 30
 - NIST 28
 - IBM 7
 - ISMI/SEMATECH 7

Special Thanks

- Lori Guariglia, NIST
- Brenda Main, Private Contractor
- Melissa Preston, CNSE
- Erik Secula, NIST

Visit our Exhibitors!

• Bruker AXS, Inc.



Omicron NanoTechnoloy, USA



Bus Schedule

Tuesday, May 12

Pickup at Hilton Garden Inn 7:30 am - 8:30 am Pickup at College of Nanoscale (back to hotel) 8:30 pm - 9:00 pm

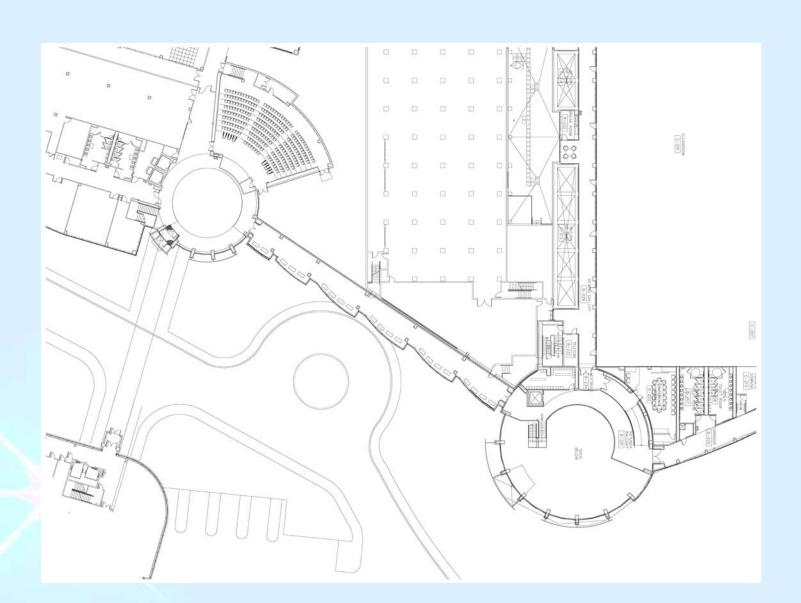
Wednesday, May 13

Pickup at Hilton Garden Inn 7:00 am - 7:45 am Pickup at College of Nanoscale (back to hotel) 8:00 pm - 8:30 pm

Thursday, May 14

Pickup at Hilton Garden Inn 7:00 am - 7:45 am Pickup at College of Nanoscale (back to hotel) 4:30 pm - 5:30 pm

Conference Facilities



Special Notes

• Talks on-line



Posters



Wireless Internet Access



Silence Cell Phones



Conference Evaluation Forms





So let's begin!

- Learn
- Enjoy
- Network
- Develop New Friends