
The Fourth International Surface Cleaning Workshop Agenda

The Colonnade Boston and Northeastern University Campus

November 7-8, 2006

Sponsored By:

SEMITOOL
Technology That Works



EKC Technology
DuPont Electronic Technologies



HANYANG UNIVERSITY



Tutorial: Surface Cleaning With Emphasis on Post-CMP Cleaning

Monday, November 6, 2006

8:00 - 8:30	Registration & Breakfast
8:30 - 10:00	Fundamentals of Particle Adhesion
10:00 - 10:20	Morning Break
10:20 - 12:00	Hydrodynamic (Shear Stress) and Brush Cleaning
12:00 - 1:00	Lunch
1:00 - 3:00	Megasonic and Ultrasonic Cleaning
3:00 - 3:20	Afternoon Break
3:20 - 5:00	Dry Cleaning (Cryogenic Aerosol and Laser)

406 Egan Building,
Northeastern University

Surface Cleaning Workshop

Tuesday, November 7, 2006

8:30-9:00	Registration & Breakfast
9:00 - 9:15	Welcome - Ahmed Busnaina
9:15 - 10:00	<u>Keynote Speaker Takeshi Hattori, Sony</u> <i>Wafer-Cleaning Challenges for the Next-generation SoC Manufacturing</i>
10:00 - 10:30	<u>Randolph Knarr, IBM</u> <i>Damage-Free Cleaning Challenges in Emerging Technologies</i>
10:30 - 11:00	<u>Dave Maloney, EKC/Dupont</u> <i>Dual Damascene Post-Etch Cleaning Challenges - Today and in the Near Future</i>
11:00 - 11:20	Break
11:20 - 11:50	<u>Ahmed Busnaina, Northeastern University</u> <i>Effect of Medium and Aging on Particle Adhesion and Removal</i>
11:50 - 12:20	<u>Abbas Rastegar, Sematech</u> <i>EUV Mask Blank defects and their removal</i>
12:20 - 1:20	LUNCH
1:20 - 1:50	<u>Woo-Kwan Shim, Samsung</u> <i>Development of a New Particle Cleaner for W Gate</i>
1:50 - 2:20	<u>Hitoshi Morinaga, Fujimi Inc.</u> <i>Cleaning and Planarization</i>
2:20 - 2:50	<u>Paul Mertens, IMEC</u> <i>Critical issues for 45 nm technologies and beyond</i>
2:50 - 3:10	BREAK
3:10 - 4:20	PANEL DISCUSSION
5:00 - 7:00	RECEPTION AND POSTER SESSION

Colonnade Hotel
Boston Ballroom

Colonnade Hotel
Boston Ballroom

Northeastern University -
Raytheon Amphitheater,
240 Egan Building

Surface Cleaning Workshop

Wednesday, November 8, 2006

8:30 - 9:00	Registration & Breakfast	Colonnade Hotel Boston Ballroom
9:00 - 9:30	<u>Jingoo Park, Hanyang University</u> <i>Control of Defects in Poly Silicon CMP</i>	
9:30 - 10:00	<u>Harald Okorn-Schmidt, SEZ</u> <i>Cleaning, interface engineering and surface preparation – the challenges continue</i>	
10:30 - 11:00	<u>Gautam Kumar, Purdue</u> <i>Scaling of Adhesion Forces – Micron to Nanometer Size Contaminants</i>	
11:00 - 11:20	Break	
11:20 - 11:50	<u>Steven Verhaverbeke, Applied Materials</u> <i>Cleaning Technologies for 45nm and beyond.</i>	
11:50 - 12:20	<u>Rick Reidy, University of North Texas</u> <i>Characterization of Plasma Damage in Porous Low-k Dielectrics</i>	
12:20 - 1:20	Lunch	
1:20 - 1:50	<u>Robert Wadja, Entegris</u> <i>Membrane Filters with Dual Particle Capture Mechanisms for Acidic-Based Sub-Micron Processes</i>	
1:50 - 2:20	<u>John Rosato, Applied Materials</u> <i>A Multiple Transducer Megasonics Technology Utilizing a Controlled Single Bubble Cavitation Mechanism for Nanoparticle Cleaning</i>	
2:20 - 2:50	<u>Deborah Yellowaga, Honeywell</u> <i>Highly Selective Removal of Plasma Etched and Ashed Inorganic BARC Materials</i>	
2:50 - 3:10	Break	
3:10 - 3:40	<u>Ken Finster, EHD Technology Group, Inc.</u> <i>Surface Preparation for In-Process Semiconductor Wafers Using Electrohydrodynamics (EHD)</i>	
3:40 - 4:10	<u>Victoria Chaplick, UV Tech Systems</u> <i>A Novel Photoreactive Surface Processing System</i>	