



Atlanta Chapter NEWS

NEWSLETTER OF THE ATLANTA CHAPTER
OF THE SURFACE MOUNT TECHNOLOGY ASSOCIATION



www.altantasmta.com/indexH **MARCH 2010**

President

Andrey Karnauch

Prime Technological Services

Vice President

Steve Hughes

Stone Mountain Tool

APRIL, 15, 2010

ATLANTA EXPO

DULUTH, GEORGIA

Secretary

Art Ogg

World Micro

MAY, 2010 (date TBA)

INTERNATIONAL SOLDERING CONFERENCE

TORONTO, CANADA

Treasurer

Eric Moen

Viscom

MAY, 2010 (date TBA)

Counterfeit Electronics Symposium West

TUCSON, ARIZONA

VP Membership

Jean Arnold

Cable Connections

October 24-28, 2010

SMTA International Conference

ORLANDO, FLORIDA

Expo Committee Chair

Frances Stewart

UP Media Group

Dick Russell

Co-Chair

Webmaster

Ben McCallum, Micromeritics

14th Anniversary Atlanta SMTA Expo

APRIL 15, 2010

2010 Sponsors

Lunch - **World Micro, Inc.**

Coffee – **Prime Technological Services**

Free Admission and Free Parking

Raffle Drawing at 3:30

Keynote Presentation

The “**State of the Electronics Assembly Industry**” Address
Bob Klenke, ITM Consulting

Additional Presentations

Cleaning

Design for Manufacturing

Head-in-Pillow

Selective Soldering

Keynote	9:30am – 10:15am
Exhibit Hours:	10:00am – 4:00pm
Technical Sessions	11:00am – 12:00pm
Lunch and Learn	12:00pm – 1:30pm
Technical Sessions	1:30pm – 2:30pm

For detailed information, visit this link:

[http://www.smta.org/education/vendor days/vendor days.cfm#atlanta](http://www.smta.org/education/vendor%20days/vendor%20days.cfm#atlanta)

Mark your calendars now for this event. More details will be sent your way as they become available.

This EXPO Committee is co-chaired by [Frances Stewart, UP Media Group](#) and [Dick Russell, Micromeritics](#). Volunteers are welcome and may contact Dick Russell at dick.russell@micromeritics.com or Frances Stewart at fstewart@upmediagroup.com. This event will be a great place for viewing the latest in products and services while networking with industry leaders.

**Thursday, April 15, 2010
Gwinnett Civic Center
6400 Sugarloaf Parkway
Duluth, GA**

A charity raffle to raise money for Hi-Hope Center, an organization providing comprehensive services to adults with developmental disabilities in Gwinnett County will be conducted during the EXPO.

THE NEXT SMTA-ATLANTA CHAPTER MEETING WILL BE HELD ON THURSDAY, MARCH 18TH

**Establishing a Precision Stencil Printing Process for Miniaturized Electronics
Assembly**

**Chris Nash
Indium Corporation of America
Clinton, New York**

The advent of miniaturized electronics for mobile phones and other portable devices has required the assembly of smaller and smaller components. Currently 01005 passives and 0.3mm CSPs are some of the components that must be assembled to enable these portable electronic devices. It is widely accepted that about 65% of all end of the line defects occur in the stencil printing process. Given all of the above, it is critical that a precision stencil printing process be developed to support miniaturized electronic assembly.

This paper will be a summary of a significant amount of experimental data and process optimization techniques that were employed to establish a precision SMT printing process. Our results indicate that the industry standard stencil aperture area ratio requirement of > 0.66 is an excellent rule of thumb. However, by optimizing printer setup with vacuum support, foil-less clamps, squeegee edge guards etc and assuring cleanliness and squeegee and stencil quality, we have been able to obtain acceptable stencil printing results with area ratios of 0.5 with Type III solder pastes. The work that was performed to achieve these results will be discussed in detail in the paper.

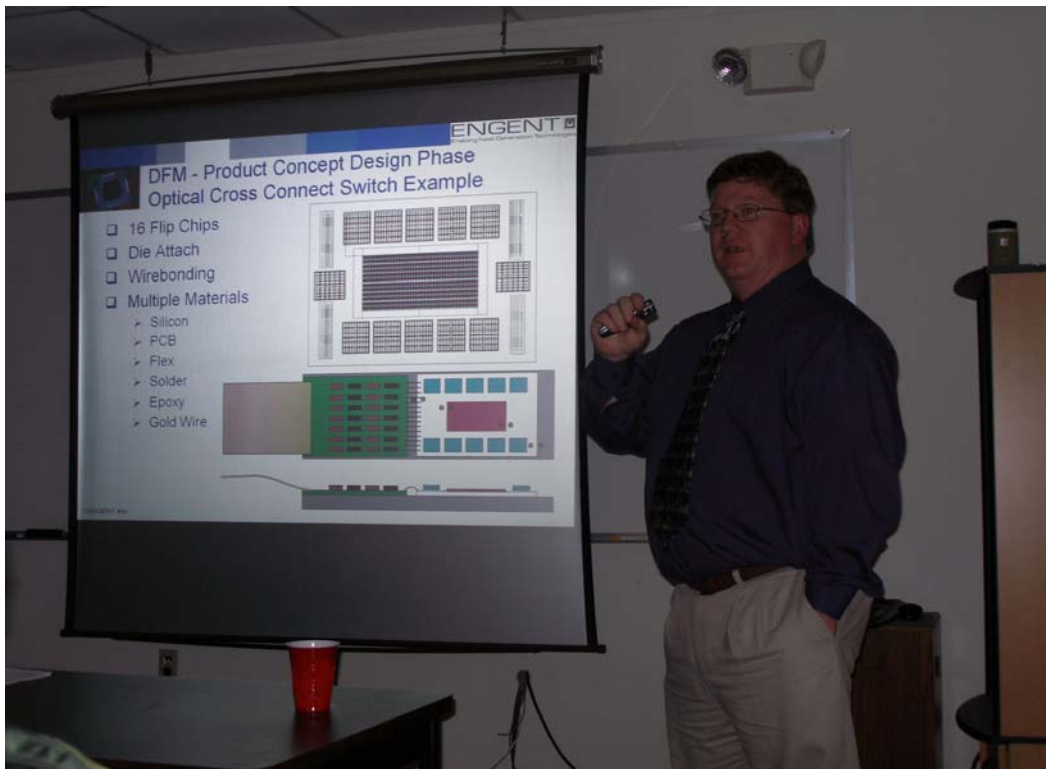
For more detailed information access this link
http://www.atlantasmta.com/next_meeting.html

**Please RSVP at the following address:
<http://www.atlantasmta.com/meetreg.html>**

**LOCATION:
Cisco Systems, Inc.
5030 Sugarloaf Pkwy
Lawrenceville, GA 30044
4:30 PM – 7:00 PM
MEAL: Chicken Parmesan, Caesar Salad, Pasta and dessert**

**THE CHAPTER MEETING SPEAKER FOR
THE JANUARY, 2010 MEETING WAS THE
SMTA NATIONAL PRESIDENT,
DR. DAN BALDWIN:**

**"Design for Manufacturing –
Knowing the Limits"**



**DR. BALDWIN PREPARING TO “WOW” US WITH MORE
OF HIS RESEARCH MATERIAL!**



**MEAL TIME AT THE JANUARY, 2010
ATLANTA MEETING HOSTED BY
MICROMERITICS INSTRUMENTS**





ROSEMARIE ODOM

“VP WAYS AND MEANS, WIE”

MS. ODOM AND MANY OF THE LOCAL CHAPTER MEMBERS OF WIE (WOMEN IN ELECTRONICS) ATTENDED THE JANUARY MEETING OF THE ATLANTA CHAPTER, SMTA.

WHILE NETWORKING WITH THE LOCAL SMTA MEMBERS ROSEMARIE PRESENTED MATERIAL ABOUT THE “WIE” 17TH ANNUAL GOLF TOURNAMENT, HELD APRIL 19, 2010 THAT BENEFITS THEIR SCHOLARSHIP AND CHARITABLE FUNDING. FOR REGISTRATION INFORMATION CONTACT **ROSEMARIE ODOM AT (678) 832-2115 OR EMAIL HER AT **RODOM@ALLSTARFG.COM**.**