PANEL PRESENTATIONS AND FACILITATED DISCUSSION ON TESTING TOPICS

Luncheon & Panel Discussion  Friday, May 16th
SMTA Members, non-members, students, and guests are welcome

Speakers:
Sam Broyles – Inova - (Moderator)
Albert DeWeese - Good Automation (Functional Test)
Adam Ley - Asset Intertech - (JTAG & Boundary Scan)
Andy Smithers - SPEA (ICT & Flying probe)

❖ Please see Moderator’s and Speakers’ abstracts on page 3 ❖

Location: Doubletree Hotel
4099 Valley View Lane in Dallas (Near the intersection of I-635 @ Midway RD, 1 block NW).

11:15am (doors open for networking) Lunch buffet with multiple entrees, salad and dessert.

If you would like to attend, we ask that you RSVP by COB May 14. Either hit REPLY to this e-mail, or click on this address link: gtanel@qcg.com so we can have proper table space set up. Do it now so you don’t forget!!

Agenda
11:15-11:30 check-in
11:30  Lunch
1145 Meeting begins
   Welcome & Introductions
   Membership & Program Report
12:00  Panel Discussion: 10 minutes with each presenter and then 30 minutes of panel discussion
1:00  Adjourn

Pricing:
$15 cash for:
   Members
   Employees of corporate members
$ 20 cash for:
   Guests/visitors/ non-members
Greetings to Dallas SMTA Chapter members and guests:

May, 2014 is a very important month. Can you answer the question “Why”? It’s important for a lot of different reasons. It’s an important month for me, as I have one niece graduating from high school, and another graduating from the University of Texas and moving on to grad school. I would guess that a lot of you reading this will also be attending graduation ceremonies of some type.

The key event I’m referring to today will affect almost everyone reading this newsletter. As part of the Dodd-Frank act, the Securities and Exchange Commission last year ruled that U.S. companies must begin reporting the origins of their minerals, as well as their refineries and smelters used to process them, by May 2014. Some electronics giants, including Intel, Motorola, Hewlett-Packard and Philips, have reportedly begun researching their supply chains and taking steps to avoid conflict minerals. The challenge is that most of the conflict minerals are difficult to trace. These are mineral such as tantalum, tin, gold and tungsten. Many tons of these materials are produced in the Peoples Republic of Congo, by companies largely controlled by armed gangs to whom human rights mean little or nothing. The electronics companies mentioned before have the resources to audit their material suppliers, but what of the independent companies who provide components that are not traced back to their material point of origin. Where do you stand as a CM or OEM? Do you know where your components are coming from? What will it mean for your company if you purchase components being made from conflict materials? I’ll bring more information on conflict materials in future newsletters.

Best regards,

Jack Harris
President, SMTA Dallas Chapter

New Members for MAY
A big Texas welcome to our newest members as of May 1, 2013.

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Company</th>
<th>Member Type</th>
<th>Date Joined</th>
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<tr>
<td>Atul</td>
<td>Rastogi</td>
<td>AMS</td>
<td>Individual</td>
<td>4/1/2014</td>
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<tr>
<td>Gunny</td>
<td>Babaria</td>
<td>Dragon Circuits</td>
<td>Corporate Supplier</td>
<td>3/1/2014</td>
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<td>Dempsey</td>
<td>EMI</td>
<td>Individual</td>
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<td>Hansalia</td>
<td>CommScope Inc.</td>
<td>Individual</td>
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<tr>
<td>Jonathan</td>
<td>Ott</td>
<td>Precise Connections, Inc.</td>
<td>Participating</td>
<td>3/1/2014</td>
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<tr>
<td>Steve</td>
<td>Pilipchuk</td>
<td>Wallace Electronics</td>
<td>Individual</td>
<td>3/1/2014</td>
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Global 4
Corporate 42
Participating 23
Individual 74
Student/Retired 9

TOTAL 152
ABSTRACT:
Join us for a panel discussion with a moderator and 4 panelists comparing common PCBA manufacturing test solutions, including In-Circuit Test (ICT), Flying Probe, Boundary Scan, and Functional test. Each of these systems is competing for a larger role in PCBA manufacturing test, but we need to understand the overlapping capabilities and industry trends to appreciate the complexity of selecting the best test strategy for a product line.

ICT, commonly referred to as a bed of nails tester, is designed to probe all available nets and test as many resources in parallel as possible. Flying probe replaces the custom test fixture with servo controlled probes. Boundary Scan uses the JTAG port to utilize on-chip resources to test interconnected circuits. Functional test systems are custom designed to interface with hardware and embedded firmware to communicate and verify performance from an application centric specification.

BIO’s

Sam Broyles
Staff Test Engineer, INOVA Geophysical
As a Staff Test Engineer at INOVA Geophysical, Sam is responsible for the design and deployment of automated manufacturing test systems for world class seismic equipment. Sam has over 15 years of experience in chip, board, and system level test, including over six years of custom test system design, integration, and deployment. Sam is a senior member of the IEEE and received the “IEEE Young Engineer of the Year of the Dallas Section Award” in 2006. He served as Chairman of the Dallas Consumer Electronics Society and Vice-Chairman of the 2007 International Symposium on Consumer Electronics. Sam is presently serving as Chairman of the Dallas IEEE Instrumentation and Measurement Society. Sam graduated Texas Tech University in 2000 with a Master of Engineering in the Electrical Engineering Program for Semiconductor Product Engineering and graduated Magna Cum Laude from Midwestern State University in 1998 with a Bachelor of Science with majors in Mathematics and Manufacturing Engineering Technology and a minor in Chemistry. Sam also received the “Man of the Year” award from MSU in 1996.

Adam Ley
Chief Technologist, Non-intrusive Board Test and JTAG ASSET InterTech, Inc.
Adam ensures that ASSET’s non-intrusive board test (NBT) methodologies comprise a best-in-class solution to meet the evolving need for improved coverage of board test in the face of ongoing erosion of physical access. Pursuant to ASSET’s strong support for standards, Adam is an active participant in IEEE 1149.1, having previously served terms as working group vice chair and as standard technical editor (for the 2001 revision), as well as in nearly all related standards, to include: 1149.4, 1149.5, 1149.6, 1149.7, 1149.8.1, 1500, 1532, 1581, P1149.1.1, P1149.10, iNEMI boundary-scan adoption, PICMG MicroTCA, and SJTAG (system JTAG). Adam’s experience prior to ASSET spanned over a decade at Texas Instruments, Sherman TX, where he had roles in application support for TI’s boundary-scan logic products and for test and characterization of new logic families. Adam earned the BSEE degree from Oklahoma State University, Stillwater OK, in 1986.

Continued
**Albert DeWeese**
Owner of Good Automation who delivers test systems and industrial control solutions to clients in highly regulated industries. Good Automation specializes in helping clients answer to FDA. Albert holds a BA Physics from University of Colorado’s 4 time Nobel Prize winning Physics department. He started his career with an NI Alliance Partner where he earned his CLA and CTA, leading teams of hardware and software engineers, building test systems for Raytheon, Texas Instruments, and others. Albert joined St Jude Medical to be part of something bigger and make test systems for class III surgical implants. He remediated an FDA warning letter and co-authored St Jude’s Non-Product Software Validation SOPs.

Albert is an expert at C#.NET and has Architect certifications in LabVIEW and TestStand. Albert left St. Jude to start Good Automation, an NI Alliance Partner specializing in the intersection of FDA, LabVIEW, and the Mobile Web. Good Automation makes turnkey test systems and advises Fortune 500 companies worldwide on 21CFR820 and ISO13485/14971 Quality Systems, including software validation and test method validation compliance strategies.

**Andy Smithers**
North American Sales Manager for SPEA America.
Andy has been in the ATE industry ever since, joining SPEA(UK) in 1990 and then re-locating to Tyler, Texas in 2001 to help launch the USA subsidiary of the highly successful European company.

**Brought to you by the Dallas Chapter of the SMTA**

Did you make it this far? As a loyal reader who made it to page 4, you are probably sitting with a cup of coffee trying to look busy, so we will reward you with a quiz. Answers are at the bottom of next page.

1. You are an average American coffee drinker. That means you consume… a) one cup a day 
   b) two cups a day  c) 3 cups a day
2. True or False: If coffee says “decaffeinated” on the label, you can assume there is no caffeine in it.
3. How long does it take to get a peak caffeine rush from a cup of coffee?
4. True or False: You get more caffeine in a cup of espresso than in a mug of coffee.
5. True or False: The way you can tell how much caffeine is in coffee beans is how dark or light they are.
6. People get a) more sensitive, or b) less sensitive, to caffeine as they get older?
7. True or False: Coffee is the world’s second most popular drink.
8. On average, how long will it take your body to get rid of the first half of the caffeine you’ve drunk? A) 2-3 hours  b) 3-6 hours c) 6-8 hours
9. What percentage of the world’s adults drink coffee every day? A)35%  b)50%  c) 65%
10. Who rids their bodies of caffeine quicker - a) Men or b) Women?
REASONS TO JOIN YOUR LOCAL SMTA CHAPTER

- Do you have something to share such as new technologies or new products?
- Are you new in a sales territory? – do you know all the players? Do they know you?

**Be informed and involved on the Local Chapter level:**

- Take advantage of technical information provided at local meetings Get to know colleagues in your local area
- Network for technical information and get to know companies and people in your local area
  - Share information with colleagues on new products and services

THE MISSION OF SMTA

The Surface Mount Technology Association (SMTA) membership is a network of professionals who build skills, share practical experience and develop solutions in electronic assembly technologies and related business operations.

MEMBERSHIP DUES

Participating: $50 - If your company (same location/division) holds a Corporate Membership it’s employees are eligible to receive the full range of benefits at a discounted price.

Individual: $75 - This membership is designed for individuals who wish to join SMTA to receive all the benefits independent of a Corporate Membership.

Corporate: $450 - A corporate membership in SMTA provides discounts to employees located in the same location/division where the Corporate Membership is held.

Student/Retiree: $5 - The Student/Retiree Membership is available to all full-time post-secondary students and retirees at a discounted rate.

HOW TO JOIN

On-line at www.smta.org

By contacting SMTA Headquarters (952) 920-7682