Stephen Schoppe is the co-founder of Process Sciences, Inc. (PSI)

ABSTRACT:
An Insider's Guide to the Analytical Lab
Manufacturing of Printed Circuit Assemblies involves many complex processes. Failures can and do occur at any step in building of the product, as well in service with the customer.

Root cause analysis and corrective action can often be challenging, with significant impacts on recovery costs and production schedules. These impacts can be minimized through assistance from an Analytical Services Lab with extensive applicable knowledge of materials, processes, and analytical equipment.

The decision to contact a lab for assistance can present many questions and concerns. In this presentation we will deal with some of these, and offer recommendations for successful failure analysis and resolution.

DALLAS CHAPTER IS PROUD TO PRESENT....

“An Insider's Guide to the Analytical Lab"
Friday, Nov. 2nd, 2018

MEETING LOCATION
Aboca’s Italian Grill,
100 S Central Expy #63,
Richardson, TX 75080

11:00 am (doors open for networking) Lunch buffet with multiple entrees, salad and dessert.

To attend, we ask that you RSVP by replying by COB Oct. 31st on the web page by clicking on the link at:
https://www.smta.org/chapters/chapters_detail.cfm?chapter_id=36

Agenda
11:00-11:30 check-in & Networking
11:30 Lunch Begins
11:45 Meeting Begins, Introductions
   Chapter Announcements
12:00 Technical Presentation by the Speaker: Rick Perkins
1:00 Technical Round Table Conversation

Pricing: (CREDIT CARDS NOW ACCEPTED on Website)
$20 cash/check, Or CCard charge (in advance on web site) for: Members, Guests of Members
$25 for Visitors & non-members
$25 for Credit card charges AT THE DOOR
Bio of the Speaker-

Stephen Schoppe is the co-founder of Process Sciences, Inc. (PSI) which provides rework/repair and laboratory services to the electronic assembly industry. During his 25 years of service to PSI, he has served as process engineer, sales manager and is currently the President.

Stephen has given presentations at SMTA International and other events on the topics of BGA rework and X-ray inspection. He has also presented talks on laboratory analysis techniques at local organizational meetings and for captive customer audiences.

Upcoming Chapter meetings

Chapter Calendar for 2018:

November 2nd 2018-Chapter Meeting
An Insider's Guide to the Analytical Lab

Nov. 30th 2018
Membership appreciation party. Dave and Busters Dallas Location
Details at Nov 2nd chapter meeting.
Presidents Message

I hope you all are staying high and dry. I just returned from an awesome SMTA International conference. It was great seeing old friends and networking with new contacts. The Technical committee did an outstanding job of selecting a wide variety of leading edge technical topics. The technical sessions were very interesting and the Expo floor was well attended. If you didn’t get a chance to attend this year, we hope you can keep this in mind next year.

Next Up: Come join us for our next Chapter meeting on, Friday, Nov 2nd at the Aboca Italian restaurant for another great presentation. Stephen Schoppe of Process Sciences will be sharing his expertise on “An Insider's Guide to the Analytical Lab.”

To round out the year, we are planning a Member’s Party on Friday, Nov 30th. It’s guaranteed to be fun filled night with friends, food, and lots of games. So, please plan on joining your Chapter friends for an enjoyable night out. Event details will be shared at our next Chapter meeting on Nov 2nd.

I hope to see you at a future Chapter meeting!

Kind regards,

Carol

Carol Primdahl – Dallas Chapter President

Dallas Chapter Membership Rolls— 112 Members !!

We welcome our newest members to the SMTA family:

Kaitlyn Dotson-CalcuQuote, Ashton McCary-Raytheon,
Jeff Rosenberg Alphanetics           David Miley-DFW Test

Corporate Members: 18     Corporate Participating members: 13
Individual Members: 51     Corporate user: 15
Global Participating Members: 6,
Associate/Student Members: 6       Lifetime members: 2     Professional:1

Dallas Chapter Corporate Member List - May 2018

ASSET InterTech       GSC (Garland Service Co.)       Precision Technology, Inc.
Barry Sales, Inc.      JTAG Technologies             Roper Resources, Inc.
BBM, Inc.              Keysight Technologies          Southwest Systems Technology Inc
Circuitronics          Krypton Solutions             SPEA America
Conecssus LLC          Leemah Electronics            .Summit Interconnect
CVInc.                 Libra Industries             Sunshine Global PCB Group
CR Assembly Corp       Lockheed Martin              SVTronics, Inc
DG Marketing Corporation Mek Americas LLC            The IPS Group, LLC
Dragon Circuits        Morgan Newton Company          Techni-Tool, Inc.
Electrolab Inc.        NPI Technologies, Inc.       Variosystems, Inc.
EWD Solutions          One Source Group              VI Technology
FHP Reps               PAC Global, Inc.
Fujitsu Network Comm.   Philips Entertainment
SMTA Dallas Chapter Mailing List Demographics

Industries Served

- Contract Mfg / EMS: 14.8% (201)
- Military: 12.4% (169)
- Industrial: 11.2% (152)
- Aviation/Aerospace: 9.0% (122)
- Communications: 8.0% (109)
- Semiconductors, IC's, Hybrid Circuits: 7.4% (101)
- Medical: 6.4% (87)
- Consumer: 6.0% (81)
- Test & Reliability: 6.0% (81)
- Computing Equip.: 5.7% (77)
- Automotive: 5.2% (70)
- Oil and Gas: 3.4% (46)
- Solar: 2.5% (34)
- LED: 2.0% (27)
- Printed Electronics: 0.1% (1)
What is the difference between a “1 up compare” and Net-list compare?

A Net-list compare is again the comparison between the provided Gerber data PRIOR to any manufacturing edits and the provided IPC 356 Design net-list. A “1 up compare” is done after manufacturing edits are performed at CAM stage to ensure that no edits performed have changed the electrical functionality of the boards. This ensures that we the fabricator have not changed the electrical functionality of the boards by bridging features due to an etch compensation for instance. If I have not mentioned it before, the “etch compensation” is done in fabrication at the CAM stage. Generally speaking, for every half ounce of starting copper a half mil of etch compensation is associated. So that after etch your desired line size is maintained.

Getting back to why I brought up the difference between a CAM 1 up compare and a net list compare: many times there will be a drawing or read me callout for net-list compare and when a net-list file is not provided and the customer is contacted they indicate they merely wanted a 1 up compare to make sure WE have not changed the function of the part by our manufacturing edits. Sometimes our customers will ask for test based upon the provided net-list files. Test file generators for modern test machines generally use the customer Gerber files for test point generation and NOT the customer supplied IPC net-lists. Having said that, the requirement is still being met as in both CAM and then again when the TEST files are generated, a net-list comparison between the Gerber files and the provided IPC net-list is performed and any mismatches communicated to the customer.

Karl Doebbert
Prototron Circuits
Special Thanks to the following volunteers!!

Technical Committee (Appointed) : Viswanaham Puligandla Ph.D.
Nokia (Retired)
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Technical Committee (Appointed) : James Boyd
Krypton Solutions
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Technical Committee (Appointed) : Glenn Robertson,
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Webmaster (Appointed) : Chintan Sutaria,
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Set Up Committee (Appointed) : Jimmy Fallin,
Philips Entertainment
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Email : jimmy.fallin@philips.com

Board Liaison : Sal Sparacino,
ZESTRON Americas
Phone : 703-393-9880
Email : s.sparacino@zestronusa.com
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: $550 - A corporate membership in SMTA provides discounts to employees located in the same location/division where the Corporate Membership is held.

Student Membership—$20 The Student/Retiree Membership is available to all full-time post-secondary students and retirees.

HOW TO JOIN

On-line at www.smta.org