

LA/OC SMTA CHAPTER NEWS

OCTOBER 2005 EDITION

LA/OC SMTA is Proud to Present...

October 2005 Chapter Training
Speaker

Dr. Harvey Stone
The Goodbye Chain Group
Topic

Complying with RoHS: Key
Issues, Best Practices and
Critical Steps

DATE

Thursday, October 27th, 2005

AGENDA

8:30am - Check-In

9:00am - 4:30pm - Presentation

MEETING FEES

\$140, Members

\$200, Non-Members

(Non-Member fee includes 1 Year
Individual SMTA Membership. A
\$60 Value.)

MENU

Pat & Oscar's Catered Lunch

LOCATION

Skyworks Solutions, Inc.
5221 California Avenue
Irvine, CA 92617

http://www.skyworksin.com/directions_irvine.asp

LA/OC SMTA is Proud to Present...

November 2005 Presentation
Dinner Meeting

Speaker

John Andresakis
VP - Strategic Technology

Topic

Imbedded Capacitors

DATE

Thursday, Nov. 17th, 2005

AGENDA

6:00PM, Social Hour

7:00PM, Dinner/Presentation

MEETING FEES

\$20, Members

\$25, Nonmembers

MENU

Roast of Round Beef

LOCATION

Embassy Suites
3100 East Frontera
Anaheim, CA

EVENT RESERVATIONS

<http://www.laocsmta.org/reservation.php>

NO SHOWS WILL BE INVOICED

If you can not attend, please cancel
your reservation by 12 Noon on
Wednesday, prior to the meeting. See
you there!



LA/OC SMTA Chapter is Proud to Present... OCTOBER 2005 CHAPTER TRAINING PROGRAM MEETING Complying with RoHS: Key Issues, Best Practices and Critical Steps Presented By: Dr. Harvey Stone with The Goodbye Chain Group

PRESENTATION ABSTRACT

As of the October 27th date of this workshop, there will be less than 3 quarters until RoHS takes effect in the European Union and, potentially, in China. Brand-owning companies face unprecedented financial risk from being shut out of multiple markets for non-compliance. Suppliers and contract manufacturers face very formidable business and competitive risks if they cannot assist their customers in complying. Thus, given that the stakes are very high and time is very short, the purpose of this workshop is to assist companies in managing their RoHS risks and in accelerating their RoHS compliance.

Course Topics Shall Include:

What is the state of the industry today in regard to RoHS?

What clarification has there been in regard to the scope of RoHS?

What exemptions have been voted "yes", "no" or are still pending?

What are the emerging data collection standards and accepted practices?

Who will be enforcing RoHS, and how will they be doing it?

The UK has provided a great deal of guidance, but what are the other EU countries saying and doing?

And, most importantly, what are companies doing today to comply?

How are they implementing Design of Experiments?

What can you learn from their best practices and worst pitfalls to accelerate your own RoHS compliance?

As with previous SMTA-sponsored RoHS workshops, the tone of this workshop is very collegial. Presentations are meant to provide information and stimulate discussion. Working sessions then allow attendees to share their own experiences, ask questions and get answers from the rich pool of presenters and attendees.

By the end of this workshop, it is expected that attendees will have a better sense of the steps they need to take in order to reduce their financial risk; to cut their costs; and, where appropriate, to gain competitive advantage from their RoHS compliance activities.

Register At:

http://www.smta.org/education/chapter_tutorials/chapter_tutorials.cfm#ca

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Presidents Message

By: Scott Penin

We would like to thank Ken Moore of Omni Training, for his presentation and explanations of the new requirements for IPC-A-610D & ANSI-J-Std-001D. Lead-free is a process that will have to be driven to ensure the cosmetics of solder joints are not rejected based on the old criteria of shiny and low wetting angles.

We would also like to thank Michelle Ogihara, our Membership Vice President for attending the SMI show in Chicago. She represented our chapter during the annual meeting and was presented two awards, which we had earned during the last fiscal year. Our chapter was awarded Runner-up for "Outstanding Chapter of the Year". We also received an award for "Generous Contribution to the Community" for our contribution to the Charles Hutchins Grant.

Last but certainly not least; we would like to thank our membership for their support during the last fiscal year, which made these awards possible. They belong to all of us.

Speaking of all of us, it is time again for officer elections for 2006. All submissions must be turned in by October 31st. If you would like to run for an office: President; V.P.; V.P. – Membership; V.P. - Technical Programs; Secretary or Treasurer or would just like to volunteer for a committee, please send your name & company name to secretary@laocsmta.org.

October's program is our annual all-day chapter tutorial program. This years subject is **Complying with RoHS: Key Issues, Best Practices and Critical Steps**. We have had two other presentations on lead-free this year, however, it is difficult to give our members all the information they need to know to identify and setup processes, and review workmanship criteria within a one-hour presentation. This 7-hour tutorial will be presented by Dr. Harvey Stone of The Goodbye Chain Group and hosted by Skyworks Solutions Inc. in Irvine on October 27th from 9:00am to 4:30pm. To obtain more information, please go to:

http://www.smta.org/education/chapter_tutorials/chapter_tutorials.cfm and scroll down to the LA/OC Chapter section.

As always, if you have any suggestions that will assist or improve our chapter, please contact us at www.laocsmta.org.

September 2005 Meeting Review

Written By: Atul Mehta

The LA/OC SMTA meeting featured Ken Moore president of Omni Training, on Thursday, September 15th speaking about the latest developments in IPC-A-610 & J-STD-001. This presentation consisted of an overview of the revision C to D changes including an additional look at lead-free from the standpoint of training hand soldering, rework, as well as training inspectors.

Ken took us on a whirlwind tour of the two revised documents, showing us more logical structures, improved navigation, and a table of contents that reflects each other in similarity. Some of the features discussed included enhanced BGA criteria, additional package types, such as the PQFN, and corrected illustrations that were previously inaccurate or unclear. Other interesting subjects included harness bend radius requirements and wire content brought over from IPC/WHMA-A-620. From there he showed the new combined Solder Anomalies section, which included lead free-related defects and process indicators like fillet lifting and hot tears, or shrink holes.

Several other improvements were shown. For example there is a clarification of solder webbing & solder balls, a subject that lead to a lot of confusion in the earlier revisions. In both documents, it was a welcome sight to see sections that consolidated subjects previously fragmented. An example of this was chapter six of IPC-A-610 detailing terminals. Virtually everything related to terminals was found in this chapter, including swage installation, assembly of wire wrap criteria, and the details of terminal solder joints. The following chapters of through-hole and SMT had the same logical structures.

Appendix E in J-STD-001, entitled "Visual Comparisons of SnPb and Lead Free Solder Connections", and the identical companion document section in the IPC-A-610, showed side-by-side photographs designed to eliminate the inevitable confusion that could fall upon operators and inspectors alike as solder joints are not always "smooth, bright and shiny". Ken also revealed the newly revised Instructor and Application Specialist IPC certifications, which accommodates lead-free solder criteria and new modules in the IPC-A-610 certification. Toward the latter half of his presentation, Ken displayed a series of photographs, comparing traditional tin-lead to lead-free solder joints. Some of his insight came from the fact that he took several of those same photos.

He explained the "primary difference" statement and showed how solder surfaces previously rejected, are now recognized as "Target" solder connections as long as the required characteristics are observed. This was an excellent opportunity to gain a comprehensive understanding of the changes in these long-awaited revisions. The LA/OC SMTA chapter wishes to thank Ken for an outstanding and informative presentation.

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Invitation to Start an SMTA Student Chapter

The SMTA is looking to start student chapters! The mission of SMTA student chapters is to build a network of students and professionals and to create learning opportunities for students to develop skills and knowledge necessary to work in electronic assembly technologies and related business operations.

A student chapter may be established at any post secondary school that supports surface mount technology, microelectronics, electronics packaging, or related industries via programs, courses, and/or activities. Only five student members are needed to start and maintain a student chapter. The student membership cost is \$5.00 per year. You can find the application for an Associate (Student) membership on-line at http://www.smta.org/membership/membership_step_1.cfm. Membership puts students in touch with the many SMTA publications and services. It also provides student discounts on conferences along with many opportunities for professional development.

The details of operating an SMTA student chapter are quite simple and spelled out in the "SMTA Student Chapter Guidelines and Bylaws".

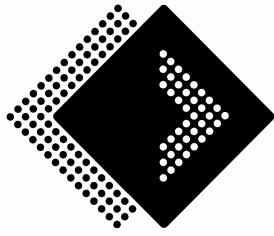
If you would like to start an SMTA student chapter at your school, please complete the "Student Chapter Start-up Application Form" that is attached.

Thanks for considering the formation of an SMTA student chapter at your school!

Sincerely,
Sis Sullivan
Student Chapter Coordinator
sis@smta.org

**TO FIND OUT MORE ABOUT FORMING
YOUR OWN STUDENT CHAPTER**

GOTO: <http://www.laocsmta.org/Students/index.html>



SMTA

Surface Mount Technology Association

STUDENT CHAPTER START-UP APPLICATION FORM

Application for academic year beginning _____ (Month/Year)

School Name _____

SCHOOL ACTIVITIES THAT SUPPORT RELATED INDUSTRIES

Please describe how your school supports the surface mount technology, microelectronics, electronics packaging, or related industries, in terms of school programs, courses and or activities offered.

FACULTY ADVISOR

Name and contact information of the **SMTA member** to serve as faculty advisor:
(Advisor must be an SMTA member)

Faculty Advisor Name: _____

Preferred Address: _____

Business Phone: _____ Business Fax: _____

Business Email: _____ Member Number: _____

STUDENT MEMBERS

Five **SMTA student members** are required to start and maintain an SMTA student chapter. Please list five students that are currently SMTA members at your school.

Student 1 Name: _____ Member Number: _____

Student 2 Name: _____ Member Number: _____

Student 3 Name: _____ Member Number: _____

Student 4 Name: _____ Member Number: _____

Student 5 Name: _____ Member Number: _____

Please mail, fax, or email this form to:

SMTA Headquarters
5200 Willson Road
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Fax 952.926.1819
e-mail: sis@smta.org
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All Student Chapter info (including this form) is available at : <http://www.laocsmta.org/Students/index.html>

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Contact

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A Planning Committee member will typically donate just an hour/month performing various planning activities. The activities could range from researching various meeting locations, costs, supplies, and speakers needed, to providing incentive/survey methods and input/feedback on newsletter, website, and/or meeting content.

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Remember....Life is Change...Growth is Optional...Choose Wisely!

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