

LA/OC SMTA CHAPTER NEWS

APRIL 2003 EDITION

DATE

April 17th, 2003

AGENDA

6:00PM, Social Hour
7:00PM, Dinner/Presentation

MEETING FEES

\$20, Members
\$25, Nonmembers

MENU

TBD

LOCATION

Embassy Suites
3100 East Frontera
Anaheim, CA



Los Angeles & Orange County Chapter



"The Surface Mount Technology Association membership is a network of professionals who build skills by sharing practical experiences and developing solutions in electronic assembly technologies and related business operations."

LA/OC SMTA CHAPTER IS PROUD TO PRESENT...

APRIL 2003 Dinner / Presentation Chapter Meeting

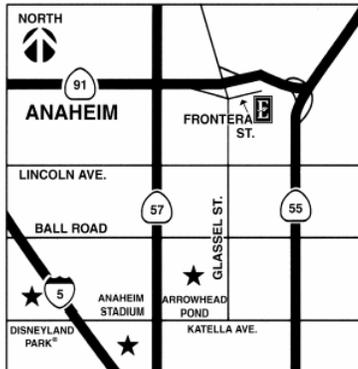
Featuring:

BGA's Promises and Problems Including Their Rework

Presented By:

Ray Prasad

President, Beamworks, Inc., Beaverton Oregon



RESERVATIONS

Call: MaskTek
(714) 557-3383

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!

UP COMING EVENT LA/OC SMTA is proud to Present...

JUNE 2003 Dinner & Plant Tour Meeting AT....

Viking/InterWorks A Sanmina—SCI Company

You won't miss this event! So mark your calendar now! Dinner/Presentation will be followed by a tour of Viking/InterWorks Manufacturing Line.

Date: June 19th, 2003

Time: 5:30pm

Location: Viking/InterWorks,
30200 Ave. De Las Banderas, RSM,
Ca. 92688

Presentation Abstract

There is great interest in Ball Grid Array (BGA) technology because it offers so many benefits such as real estate savings, high yields, and better electrical performance. Despite these promises, there are many problems with BGA and now the industry is jumping into CSP (Chip Scale Packaging). These are leading edge packaging technologies. Being on the leading edge also means being on the bleeding edge. One must also keep in mind that getting into BGA and CSP also requires dealing with mixed technologies such as standard SMT, fine pitch and through hole on the same board.

Based on Ray's book *Surface Mount Technology: Principles and Practice*, Second Edition, and the IPC document IPC 7095 chaired by Ray, the objective of this presentation is to highlight the technical issues in BGA design and manufacturing. Ray will also highlight the latest requirements for voids in BGA as being incorporated in IPC 7095, "Design and Assembly Process Implementation for BGA", the committee that he currently chairs.

The presentation will conclude with a discussion of traditional hot air systems with the state of the art laser rework technology by BeamWorks for BGA rework and Automated Selective Assembly.

SPEAKER PROFILE

Ray Prasad, the founder of Ray Prasad Consultancy Group, is also the President of BeamWorks, Inc, and a manufacturer of Automated Selective Laser Assembly Machines. Both companies are located in Beaverton, Oregon, USA.

Before starting his consulting practice in 1994, as well as joining BeamWorks in 2000, Mr. Prasad held key technology positions at Boeing and Intel for 15 years. Ray was the SMT Program Manager at Intel responsible for developing and implementing SMT for the system products. Ray also developed and taught in-house design and manufacturing courses to Intel engineers. Ray was recognized by Intel CEO Andy Grove for establishing the SMT infrastructure at Intel. In addition, Ray also managed the Intel PentiumPro™ package program for Intel and introduced SMT into Boeing airplanes when he served as a lead engineer at that company.

Author of the text book *Surface Mount Technology: Principles and Practice* and numerous papers, Mr. Prasad is a popular workshop leader at national and international conferences. A long time member of IPC, he is currently the chairman of BGA committee IPC-7095 "Design and Assembly Process Implementation for BGA", as well as past chairman of the Surface Mount Land Pattern (IPC-SM-782) and Package Cracking (J-STD-020) committees.

Mr. Prasad is the recipient of SMTA's Member of Distinction Award and IPC President's award for his contribution to SMTA and the advancement of electronics industry. Ray is a columnist for the *SMT* magazine and also serves on its advisory board.

Mr. Prasad received his BS in Metallurgical Engineering from the Regional Institute of Technology, Jamshedpur in India and MS in Materials Science and Engineering and MBA from the University of California at Berkeley. Ray is a registered Professional Metallurgical Engineer.

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PRESIDENT's MESSAGE**By: Scott Penin**

Welcome to the warm days of April. Isn't Southern California a great place to live. OK, back-to-business. Hope everyone had a break from us and were thinking of what we can do to help you. The next couple of months will be filled with education and fun. From a plant tour to a golf outing.

We are two-for-two on successful meetings. Dan Kauss and Andrew Kerr from Motorola were very informative on describing automatic methods to identify machine performance and simplistic root cause analysis (determined by the equipment). CAMX (IPC-2540, Shop Floor Communications Standard series) was also identified as a possible new standard. It is in final ballot at IPC to determine if it will be approved. It was created by the IPC and NEMI (National Electronics Manufacturing Initiative) to standardize "talk" with equipment from assembly to test and inspection using the XML format.

APEX? The trade shows keep getting smaller and smaller. The good news from a user standpoint was you didn't have to wait in line to get attention or a demonstration; from an equipment manufacturer's standpoint, the users who did decide to go were there for specific reasons and good leads were compiled. I understand the show next year will have the same time slot as the old NEPCON show (end of February). It will also go back to the traditional Tuesday-to-Thursday viewing.

Until next month (as far as the newsletter is concerned, or in two weeks if you want to increase your knowledge) we are here for you. Call, e-mail, FAX, any communication method you see fit to tell us what direction(s) peak your interest, please let us know.

NEW MEMBER PROFILE**Bryan Nguyen**

Bryan Nguyen has been a Manufacturing Engineer for APT Electronics Inc. for the past 2 years. Prior to joining APT, Bryan was a Process Technician for Viking Components, Inc. Bryan received his AA from Golden West College and his BS from Computer Technical Services. Bryan is married and has a 2.5 year old son. Bryan and his family enjoy traveling in the US, especially California. Bryan and his family plan on going to Vietnam this year for vacation.

Let us all join in and welcome Bryan into the LA/OC SMTA Chapter

TECHNICAL EXCHANGE

"Do You Hear A Pulse?"

Written By: Deon Nungaray, General Monitors USA



Editors Note: On last month's newsletter we were exploring the Implementation of Lean Manufacturing. We were going to continue exploring this topic, however, we will re-schedule continuation of Lean Implementation topic for the near future.

Manufacturing in the US is actually alive! Or so it seemed, as I walked through the overcrowded halls of this year's Medical Device & Manufacturing exhibition show held this past February. The show was held at the Anaheim Convention Center from February 19th – 21st and was actually a combination of 5 different shows bundled in to one very successful event. To be more precise, a record breaking 2,200 exhibiting companies and 38,763 attendees made their way to the Anaheim Convention Center for this annual West Coast design and manufacturing event. The co-located lineup of Medical Design & Manufacturing (MD&M) West, Electronics West, Pacific Design & Manufacturing, the PLASTECH West Pavilion, and WestPack trade shows.

Walking through the buoyant crowd only brought back memories of the old (almost forgotten) NEPCON heydays. Those good-ole days when "THE" show filled the entire convention center from the Arena to the downstairs Hall E was once again accomplished but at a different event. I actually had to park at the Disneyland hotel parking lot about a half of a mile away. This was certainly one very busy event where the attendees actually outnumbered exhibitors! That is an accomplishment these days.

There is no doubt in my mind that the Medical industry is booming and should continue to do so as the baby-boomer generation continues aging and requiring medical services. There were people from other industries as well. However, I spotted very few booths with rework and no presence of any electronic equipment manufacturers. This was surprising to me since this is a manufacturing show. The combination of the 5 shows was well balanced, organized and planned. There seemed to be lots of excitement despite the impending war jitters. Accompanying this was a vibrant and opportunistic crowd anxiously looking for new products, services and developments available.

Where do we fit in all this? And how can we, the electronic industry, benefit from the medical boom? Well, eventually one would hope that manufacturing of this high-tech medical instrumentation would stay in the US, and apparently it has. Most medical device manufacturers are still manufacturing in the US due to quality and high-reliability requirements. However, capturing this business is a challenge. One must be prepared to meet the demanding quality and regulatory requirements of the medical industry, such as GMP, ISO 9001 and EN46001 compliances amongst other things. Networking and having insight to this industry is an opportunity, which may be under exploited. Making contacts, attending medical industry instrumentation events and having a keen sense of timing are essential to getting your foot in the door. After all, if they manufacture here then they must need manufacturing equipment and/or services.

Looking for opportunities these days is a challenge and no stone should be left unturned. The medical industry might be a boulder. Being overly optimistic might be the case, but there is no doubt that this was certainly one bright spot in this ailing economy.



Thursday
August 7th, 2003
Shotgun Start 1pm

California Country Club
1509 South Workman Mill Road
Whittier, CA 90601
(626) 333-4571

Cost is TBD per player, & includes, Green Fees, Shared Cart, Warm Up Balls, & Awards Banquet.

Help Wanted: Corporate Sponsors for the Big Event
 Have your company name in lights, while supporting your local chapter!

Help Needed: Volunteers to support the Big Event. Don't worry you'll be taken care of!

Contact

Frank Kurisu
 with SolderMask, Inc. @
fkurisu@msn.com



Don't let this fun-filled event pass you by!

Mark your calendars now!

You won't want to miss this event!
 Whether you golf or not, it is fun for everyone.

Come join us...
 don't miss the party at the 19th hole!

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UP COMING EVENT LA/OC SMTA is proud to Present... May 2003 Dinner & Presentation Meeting

SPEAKER

James Blankenhorn

TOPIC

DFM

DATE

May 15th, 2003

AGENDA

6:00PM, Social Hour

7:00PM, Dinner/Presentation

MEETING FEES

\$20, Members

\$25, Nonmembers

MENU

TBD

LOCATION

Embassy Suites

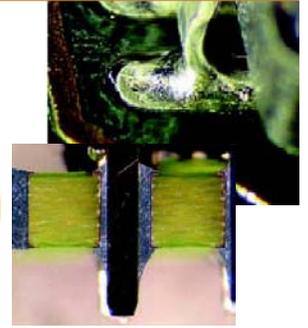
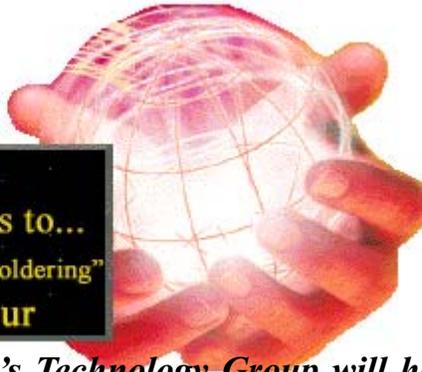
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Anaheim, CA



Vitronics Soltec
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**Vitronics Soltec Invites
North American Manufacturers to...
"Make the Right Connection in Lead-Free Soldering"
Advanced Technology Tour**



Stratham, New Hampshire, USA – **Vitronics Soltec's Technology Group will host a free instructional seminar with a stop right here in Orange County on May 1st.** Topics will include the critical elements of the soldering processes of wave, reflow, and selective operations. This **Advanced Technology Tour** will cover key electronics manufacturing issues such as identifying market trends; lead-free soldering; selective soldering; building a more efficient process; optimizing reflow processes; and many others. In the new reality of tighter budgets and narrower margins, electronics manufacturers must remain profitable to survive. Increasing process efficiency can cut costs and widen narrow profit margins. Based on Vitronics Soltec recent series of highly successful Advanced Technology Tours in Europe and Asia, this year's program will illustrate the impact various soldering technologies have on cost, process control, and yield.

The **Advanced Technology Tour** has been developed by **Vitronics Soltec's Technology Group** and outlines methods and procedures proven to be successful in multiple manufacturing environments, and is **free of charge** to qualified attendees. A key feature of the seminar will be to introduce attendees to the revised "**5 Steps to Lead-Free**" program. This step-by-step guide provides actual, practical implementation recommendations. According to Dr. Denis Barbini, a member of the Group's Advanced Technology Laboratory, "*Our goal is to show manufacturing engineers not only how to begin, but how to get their lead-free manufacturing lines up and running successfully with good yields – and to keep them that way.*"

The Advanced Technology Tour goal will be to show attendees how to optimize their soldering processes to cut waste, lower costs, and maintenance, and employ needed "survival skills" to cope with tight margins and tough economic times. In short, making their processes more efficient and profitable. Attendees will learn field-tested methods and production-proven techniques. Ample time will be allocated for networking, question and answer sessions, and discussion. The seminar will be co-chaired by Dr. Denis Barbini Advanced Technologies Manager, and Marc Dalderup, Vice President of North American Sales.

HOW TO REGISTER FOR...

VITRONICS SOLTEC 2003 NORTH AMERICA ADVANCED TECHNOLOGY TOUR
REGISTER ON THE VITRONICS SOLTEC WEBSITE @ WWW.VITRONICS-SOLTEC.COM

DATE / Time

May 1st, 2003 / 8:30am to 4:15pm

LOCATION

Orange County Hyatt Regency, 11999 Harbor Blvd, Garden Grove, California, 92840 USA, CA

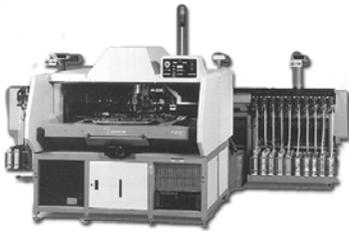
For more information contact Vitronics Soltec, Tina Carline at 2 Marin Way, Stratham, NH 03885, Tel. 603.772.7778 ext 209, Fax. 603.772.9340, E-Mail: tcarline@us.vitronics-soltec.com

Or Down load Outline of Seminar @ WWW.LAOCSMTA.ORG

Vitronics Soltec's Technology Group is comprised of more than a dozen process specialists employed globally throughout Vitronics Soltec facilities in the Netherlands, USA, Germany, and Singapore. Their common goal is to study and define processes, and publish their findings on selected technology topics. The Technology Group has a well-equipped and unique advanced research laboratory, incorporating metallurgical, environmental testing, and analytical capabilities. Additionally, two fully operational SMD lines give this Group the ability to conduct in-depth testing in an actual production environment.

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2003 SMTA LA/OC Source Guide Calling All Advertisers

Michelle Ogihara has been working diligently on recruiting Advertisers for the 2003 SMTA LA/OC Source Guide, but in a brief interview she stated "We are still short of our goal. We need 11 more to reach our goal."

Michelle has put countless hours into supporting your chapter and could really use some of your wonderful support! So, open up your heart and give her call to find out how you can you help!

Contact: Michelle Ogihara at 310-540-7310 ext.120, email: michelle-o@jp.seika.com



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Schedule

Ads should be submitted at least one week prior to the end of the month preceding the first month of desired publication.

Vendor Tables

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Contact

Scott Penin

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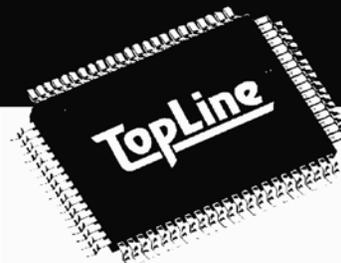
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