SMTA
Upper Midwest Chapter
July 22, 2009

Tartan Park Golf Club to Host 2009
Upper Midwest Chapter Golf Tournament

SMTA 25th
Anniversary Event

When:
Tuesday, August 25, 2009
Location:
Dakota County Technical College
1300 145th Street E.
Rosemount, MN 55068-2999
Phone: 651-423-8301

Speakers:
JoAnn Stromberg – Executive Administrator, SMTA:
The History of the SMTA
Bill Barthel – Plexus & UMWC Board Liaison:
The Future of the SMTA

More Information:
http://www.smta.org/chapters/chapters_detail.cfm?chapter_id=1

Complete Golf Outing Details in This Edition

July 30, 2009 Golf Tournament

The Eighteenth Annual SMTA Golf Tournament will again be held at Tartan Park Golf Club, a 3M Club facility located in Lake Elmo, on Thursday, July 30, 2009. Tee Times will start at 11:30 A.M. Please arrive by 10:30 A.M. to complete the registration process. The sign-up for this tournament is on a first come, first served basis with a maximum of 80 golfers. At the time of this writing, there remain only ten more slots for this event. This maybe your last chance to register for next weeks golf outing. Please RSVP to Erik Stromberg via email at estromberg@e-tronix.com if you’d like to play. More details are below and on pages 4 & 5. Directions and map to Tartan Park on page 11.

What: Eighteenth Annual SMTA Golf Tournament
When: Thursday, July 30, 2009
Location:
Tartan Park Golf Club
11455 20th Street N
Lake Elmo, MN 55042
(651) 733-3480

Starting Tee Times: 11:30 AM. Please arrive by 10:30 AM to complete check-in. Lunch will not be provided.

Registration: Register by Thursday, July 23rd to Erik Stromberg via email at estromberg@e-tronix.com. Include your name, company name, telephone #, and your average score for 18 holes. If you have any questions you can reach Erik at (612) 803-2619.

Fees: $60.00 for 18 holes. This fee includes golf, cart, prizes, and dinner. All fees must be received by Thursday, July 23rd. No-shows will be invoiced. Space is limited. Make your reservations today.

Checks Payable to: SMTA

July 22, 2009
Tartan Park Golf Club to Host 2009
Upper Midwest Chapter Golf Tournament

Directions to Tartan Park Golf Club on page 11.
Hello Everyone,

Yet, another president’s address wrote but someone new this year writing it. Not everyone knows me so here is a little background on myself.

I started my career at IBM – Rochester, MN, as a process engineer for the circuit board assembly area. Later, Celestica purchased our division and closed our plant after 3 short years. I moved to the Twin Cities to continue my career supporting the pace maker circuit assembly line in Arden Hills for Guidant. As luck would have it, they also were bought out by Boston Scientific with layoffs yet again. After 11 years, I felt that working for large companies was not in my best interest and decided to work for a little known company called Soligie which prints conductive inks on roll-to-roll plastic substrate. In 12 years working for the circuit assembly industry, I have seen my share of company and technology changes.

Well, I hope everyone has had a chance to enjoy Memorial Day (and soon to be July 4th holiday) given the rough economic times we are in. Schools out and the heat wave in June has gotten everyone running to air conditioners and just think, 3 months ago we were wondering if the winter was ever going to end.

This year we are filling up the calendar full of interesting topics that line up to our member’s requests. For our March 10th meeting, we invited an IPC speaker in to discuss REACH (EU) registration and halogen-free. For May 7th, we had lined up a “DFM For Manufacturing” presentation along with a tour at ITRON. And on June 11th, we had our Upper Mid-west Vendor Expo which was a great success. The rest of the year is becoming solid so keep up on the website for the latest news, scheduled events, and links to past presentations.

- March 10th – REACH & Halogen-free at Hennepin Tech in Eden Prairie
- May 7th – “DFM For Manufacturing”, by Dale Lee, with tour at ITRON
- June 11th – Vendor Show at Sheraton-Bloomington
- July 30th – 18th Annual Golf Event @ Tartan Park in Lake Elmo
- August 25th – 25th Anniversary Celebration @ Dakota County Technical College
- September 17th – “Members Only” Boat Cruise on the St. Croix
- November 10th – “Counterfeit Components” by Phil Zarrow (location TBD)

For our members that have lost their jobs due to the economy, we would like to keep our networking of members open and will allow free attendance to the meetings throughout 2009. If you know of these individuals, please let them know of the events to keep them in the loop.

Thank you all for your time and effort throughout 2008. Let’s keep 2009 going strong.

Alexander Zeitler
SMTA Upper Mid-West Chapter President
Alex.Zeitler@soligie.com
Phone: 952-808-6918
Vendor Appreciation Day
June 11, 2009

Exhibitor Listing In Conjunction With Technical Sessions

Special thanks to our media sponsors for this event: CIRCUITS and PRINTED CIRCUIT DESIGN & FAB magazines

AIM, Inc.
American Precision Electronics, Inc.
Ascentec Engineering
Ayshire Electronics
Benchside Electronics
Conductive Containers, Inc. (CCI)
Cookson Electronics
Coretec, Inc.
Coredian Technologies
Creation Technologies, Inc.
Dakota County Technical College
E-Tronix
Electri-Rep of Minnesota, Inc.
Electronic Systems, Inc.
Electrotek Corporation
Ellsworth Adhesives
Engent, Inc.
I.Technical Services, LLC
Image Tek Labs
Indium Corporation
Insulfab
Ironwood Electronics
JMW Enterprises, Inc.  

Kyzen Corporation
Materials Evaluation and Engineering
Metal Etching Technology (M.E.T.)
Metro SMT - Cab Technologies
Micro Control Company
OMG Electronics
Omni-Tec, Inc.
Omni-Tronics
Panasonic Factory Solutions of America
Photo Etch Technology
Premier Semiconductor Services
Production Automation Corporation
Production Solutions
Prostat Corporation
Prototron Circuits
Restronics Northland
Seika Machinery, Inc.
Specialty Coating Systems
Stanley Supply and Services
Tonka Electronics
Universal Instruments
ZESTRON America
The Eighteenth Annual SMTA Golf Tournament will once again be held at the impeccable Tartan Park Golf Club (3M Club’s facility in Lake Elmo) on Thursday, July 30th, 2009. Tee Times will start at 11:30 am. Please arrive by 10:30 am to complete the registration process. Lunch will not be provided. The deadline to register has been extended to Friday, July 24th. Payments must be received by July 24th to ensure your spot. The sign-up for the golf tournament is on a first come, first served basis with a maximum of 80 golfers. At the time of this publication, ten spots remain open. Below is all the information on this year’s tournament.

**What:** Eighteenth Annual SMTA Golf Tournament  
**When:** Thursday, July 30th, 2009  
**Location:**  
Tartan Park Golf Club  
11455 20th Street N  
Lake Elmo, MN 55042  
(651) 733-3480

**Directions:** From the West (Mpls/St. Paul)  
Proceed East on I-94 from Minneapolis or St. Paul, passing 3M Center. Continue approximately 7.1 miles from 3M Center at McKnight Road on I-94 to MN 95/Washington County No. 15 (Manning Ave), passing I-494/694 en route. Exit at County Road 15 (Manning Ave) and turn left onto Manning. Proceed north 1.4 miles. Turn left onto Manning Trail, following signs to Tartan Park. Continue 0.6 of a mile to 20th Street. Turn left on 20th Street and precede 0.4 of a mile to park entrance (First entrance: Golf and Clubhouse and Second entrance: Picnic and Sports).

**Starting Tee Times:** 11:30 am. (Please arrive by 10:30 am). The Snack Bar will be open and has specials on Thursdays. **Lunch will not be provided.**

**Registration:** Register by Friday, July 24th to Erik Stromberg via email at estromberg@e-tronix.com Please include your name, company name, telephone #, and your average score for 18 holes. If you have any questions you can reach Erik at (612) 803-2619.

**Fees:** $60.00 for 18 holes. This fee includes golf, cart, prizes, and dinner. **All fees must be received by Friday, July 24th. No-shows will be invoiced. Space is limited so please make your reservations early.**

**Checks Payable to:** SMTA  
**Send Checks to:**  
Erik Stromberg  
E-tronix  
4005 Xerxes Ave. S.  
Minneapolis, MN  55410

**Tournament:** The tournament will consist of a four-person scramble. We will organize the teams based on your golfing caliber in order to make the teams fair. The number of suppliers and users in the four-some will also be taken into consideration. Please plan on arriving at the golf course by 11:00 A.M. As most of you know from previous years, the tournament will be played in rain or shine unless there is lighting outside, so plan accordingly to the weather conditions.

**Dinner:** 3M and SMTA will be sponsoring dinner. Dinner will be provided after the tournament for everyone at the clubhouse starting at approximately 5:30 P.M. Cash bar open for your pleasure.

**Prizes:** Each supplier donating a prize will get a sign at the tee box stating their name and what event the prize is awarded for. Prizes will be presented at the dinner at the end of the tournament. All winners must be present to receive their prize. **Please direct all prize offerings to Jeff Kennedy at (651) 604-3981.**
SMTA will limit to Only 1 Individual Prize and 1 Team prize per player.

Longest Drive: Longest Ball off of the tee-box in play. May not be out of bounds.

Longest Putt: Longest putt to go into the hole in 1 stroke. The ball must be on the green or on the fringe of the green to count.

Closest to the pin: On short holes it requires a shot from the tee box to the green. On par 4 holes, it can be an approach shot from the fairway to the pin.

Best Chip shot to the pin: approach shot or chip shot from the fairway/(off the green) that makes the ball closest to the pin.

Mulligans: We are selling mulligan tickets for $5 each. Each person can purchase 1 mulligan ticket and a maximum of 4 mulligan tickets per 4-some. The mulligan can be used at any time during the round. Also, purchasing a mulligan ticket will qualify you for the cash giveaway from the mulligan kitty.

3-Some Groups: If your team is a 3-some, 1 person gets to take 2 shots on every shot for the hole. This would then rotate people on the next hole and so on throughout the entire round.

Each team must use each member of foursome’s drive on each of the front and back 9. Record on scorecard whose drive is used per hole. (Put a dot or circle on their line of the score card under the hole number)

Limit: One Individual prize and One Team Prize

Team Tie Breaker is defined by Course listing degree of difficulty starting with the White Course.

Drink Responsibly (Make sure you have plenty of water in the heat of the day)
Par 3 Hole No. 5 -- Blue Course

Download presentations from the Upper Midwest Expo & Tech Forum -- June 11, 2009

**Morning Sessions: 10:45am – 11:30am**

**Second Generation Lead-Free Alloys**
Randy Schueller, Ph.D., *DfR Solutions*

**Cleaning Trace Flux Residue Under the Z-Axis on High Reliability Circuit Assemblies**
Mike Bixenman, *Kyzen Corporation*

**Afternoon Sessions: 1pm – 1:45pm**

**7 Ways to Profile for Profitability**
Brian O’Leary, *KIC*

**Laser BGA Re-balling**
Josh Muonio, *Analog Technologies*

---

**Roll’n On the River Social Night**

Where: Stillwater, MN on board the Anastasia, the St. Croix Boat & Packet Co.

When: Sept. 17, 2009 – Load the paddlewheel riverboat at 6:00 PM and return to shore at 8:30 PM.

Who is invited: All current SMTA members and significant others.

Cost: FREE for current SMTA members and one guest.

Food: A buffet will be provided along with drink tickets, and a cash bar.

For more information contact Sue Blankenheim, Omni-tronics, Inc.

Email: sue@omni-tronics.com Phone: (763) 425-7910

St. Croix Boat & Packet Co. [http://stillwaterriverboats.com](http://stillwaterriverboats.com)
**Chapter Calendar of Events**

<table>
<thead>
<tr>
<th>Date / Time</th>
<th>Event</th>
<th>Location</th>
<th>Phone</th>
<th>Contact / E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 11, 2009</td>
<td>SMTA Upper Midwest Expo &amp; Tech Forum</td>
<td>Bloomington Sheraton</td>
<td>952-920-7682</td>
<td>Leslee Johns <a href="mailto:leslee@smta.org">leslee@smta.org</a></td>
</tr>
<tr>
<td>July 30, 2009</td>
<td>SMTA Chapter Golf Outing</td>
<td>Tartan Park Lake Elmo, MN</td>
<td>612-803-2619</td>
<td>Erik Stromberg <a href="mailto:estromberg@e-tronix.com">estromberg@e-tronix.com</a></td>
</tr>
<tr>
<td>August 25, 2009</td>
<td>25th Anniversary SMTA Event</td>
<td>Dakota County Technical College</td>
<td>952-920-7682</td>
<td>Sara Brazeau <a href="mailto:sue@smta.org">sue@smta.org</a></td>
</tr>
<tr>
<td>September 17, 2009</td>
<td>Social Event Paddleboat</td>
<td>Stillwater, MN</td>
<td>763-425-7910</td>
<td>Sue Blankenheim <a href="mailto:sue@omni-tronics.com">sue@omni-tronics.com</a></td>
</tr>
<tr>
<td>November 10, 2009</td>
<td>Counterfeit Parts</td>
<td>TBD</td>
<td>612-803-2619</td>
<td>Erik Stromberg <a href="mailto:estromberg@e-tronix.com">estromberg@e-tronix.com</a></td>
</tr>
</tbody>
</table>

**Corporate Members of our Chapter**

- 3M Company
- Altron, Inc.
- Analog Technologies Corp.
- ASC International
- Banner Engineering Corporation
- Belton Technology, Inc.
- Bergquist Company, The BTW Inc.
- Circuit Check Inc.
- Conductive Containers Inc. (CCI)
- Control Products Inc.
- CyberOptics Corporation
- Datakey Electronics
- E-Tool
- EI Microcircuits, Inc.
- Electronic Systems Inc.
- Great Lakes Engineering HEI Inc.
- Infinite Graphics Inc.
- InLine SMT
- Ironwood Electronics
- Itron, Inc.
- JMW Enterprises, Inc.
- Logic EMS
- Microstructures, Inc.
- New Wave Components
- Phoenix International
- Raven Industries Inc.
- Riverside Electronics Ltd.
- Rockwell Collins
- Sauer-Danfoss
- Seagate Technology
- V-Tek, Inc.

**Global Participating Member of our Chapter**

- Creation Technologies Inc.
- Creation Technologies – St. Peter
The SMTA membership is an international network of professionals who build skills, share practical experience and develop solutions in electronic assembly technologies, including microsystems, emerging technologies, and related business operations.

### Our Chapter Leaders

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexander Gene Zeitler</td>
<td>Soligie, Inc.</td>
<td>952-808-6918</td>
<td><a href="mailto:alexander.zeitler@soligie.com">alexander.zeitler@soligie.com</a></td>
</tr>
<tr>
<td>Erik Stromberg (Vice President, Golf Chairman)</td>
<td>E-tronix, A Stromberg Company</td>
<td>612-803-2619</td>
<td><a href="mailto:estromberg@e-tronix.com">estromberg@e-tronix.com</a></td>
</tr>
<tr>
<td>Katie L. Wohletz (Secretary)</td>
<td>Riverside Electronics Ltd.</td>
<td>507-523-3220</td>
<td><a href="mailto:kwohletz@rellew.com">kwohletz@rellew.com</a></td>
</tr>
<tr>
<td>Todd Ness (Treasurer)</td>
<td>Stanley Supply &amp; Services</td>
<td>952-443-7144</td>
<td><a href="mailto:todd.ness@heii.com">todd.ness@heii.com</a></td>
</tr>
<tr>
<td>Sue Blankenheim (Membership)</td>
<td>Omni-Tronics Inc.</td>
<td>763-425-7910</td>
<td><a href="mailto:sue@omni-tronics.com">sue@omni-tronics.com</a></td>
</tr>
<tr>
<td>David W. Stiff (Chairman, Newsletter Editor)</td>
<td>3M Company</td>
<td>651-733-0505</td>
<td><a href="mailto:dwstiff@mmm.com">dwstiff@mmm.com</a></td>
</tr>
<tr>
<td>Bill Barthel (SMTA Board Liaison)</td>
<td>Plexus Corp.</td>
<td>920-996-8681</td>
<td><a href="mailto:bill.barthel@plexus.com">bill.barthel@plexus.com</a></td>
</tr>
</tbody>
</table>

Don’t forget to check out the Upper Midwest Chapter’s website for announcements on future and upcoming events:
http://www.smta.org/chapters/chapters_detail.cfm?chapter_id=1
SMTA International Electronics Exhibition 2009
Technical Conference: October 4-8 / Exhibition: October 6-7

Get Ready for SMTAI 2009!
See you in San Diego.

The Town and Country Resort and Convention Center
San Diego, CA

The SMTAI Technical Committee was hard at work reviewing more abstracts than we have ever received at any time in the past five years. The final selection consists of 120 papers making up the industry's strongest technical program yet again! Attendees at SMTAI 2009 can look forward to 18 short courses, AIMS co-location, Emerging Technologies, the Lead-Free Symposium, the Contract Manufacturing Symposium, and a special keynote speaker from Jet Propulsion Labs. Making this year even more special is the 25th Anniversary Dinner and Celebration of SMTA's silver anniversary in the industry. Check back for more and don't forget registration will open by the middle of June. View the SMTAI 2008 Scrapbook for photos, files, and memories from this past conference.

SMTA/MEPTEC Medical Electronics Symposium:
Drivers for Technology, Health and the Economy
Arizona State University – Tempe, AZ
September 16-17, 2009

In association with ASU College of Nursing & Healthcare Innovation

Please visit http://meptec.org/meptec2009medica.html for more program information and registration.
Tartan Park
11455 20th Street North
Lake Elmo MN 55042
651-733-3476

Directions to Tartan Park Clubhouse

1. Proceed east from Minneapolis or St. Paul passing the 3M Center.
2. Continue approximately 7.1 miles from the 3M Center at McKnight Road on I-94 to Washington County Road 15 (exit 253 or Manning Avenue), passing I-494/694 enroute.
3. Exit at County Road 15 (Manning Avenue), turn left on to Manning and proceed north 1.4 miles.
4. Turn left on Manning Trail, following the signs to Tartan Park.
5. Continue 0.6 mile to 20th Street.
6. Turn left on 20th Street. Proceed 0.4 mile to entrance to the park.

NOTE:
7. For those coming from the north or south on I-494/694, proceed east on I-94 4.8 miles to Washington County Road 15 (exit 253 or Manning Avenue). Refer to Step 3 from there.
8. For those coming westbound from Wisconsin, take I-94 to Washington County Road 15 (exit 253 or Manning Avenue). Turn right on Manning and proceed north 1.4 miles. Refer to Step 4 from there.