

February 2010

# IIE Twin Cities



## Machine Vision Tour

Thursday, February 25, 2010 – 5:30 PM to 7:00 PM

PPT Vision, 6301 Old Shakopee Road, Bloomington, MN

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*Are you looking for more ways to increase productivity and quality on your production line?*

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### About the tour:

PPT Vision, a world leader in machine vision innovation, has thousands of successful machine vision installations throughout the world that can help to increase quality and productivity on your production line.

PPT Vision systems provide a reliable and full featured quality control and inspection platform that is well suited for nearly any application, including: bottle and label inspection, optical character recognition or even plastic mold protection.

Join us on Thursday, February 25th as a representative from PPT Vision walks us through their products and provides us with a tour of their vision lab.

### PPT Vision Background:

- One of the Machine Vision pioneers, founded in 1982
- Focused on 2D inspections & guidance
- Full line of smart cameras, including grayscale and color
- Global customer base



### Machine Vision Application Examples:

- Code Reading
- Mark Inspection
- Measurements
- Content Verification
- Label Verification
- Print Verification
- Date Lot Verification
- Part Placement
- Orientation
- Fill Level
- Contamination
- Package Integrity
- Packaging /Seal Verification

### Location:

PPT Vision  
6301 Old Shakopee Road  
Bloomington, MN 55438

### Time:

Tour is from 5:30 – 7:00 pm, with dinner provided. Networking/social hour following at Major's in Bloomington.

### Cost:

\$10 for members; \$15 for non-members (dinner is included). You may pay by PayPal, by e-mailing IIE Twin Cities@gmail.com, or by sending a check to the IIE Treasurer, John Spriggs, at 5221 James Ave S., Minneapolis, MN 55419

### ATTENTION MEMBERS:

If you bring 2 or more non-members to this event you attend for FREE, and you will be eligible for a PRIZE to be given out at the end of the event!

### Reservations:

An Evite® invitation will be sent. If you do not receive the invite, send your RSVP to IIE Twin Cities@gmail.com. Please RSVP by February 18<sup>th</sup>. Space is limited to the first 25 people.

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## TWIN CITIES IIE MEMBER PROFILE: Marta Bogenschultz



I am currently a junior at the University of Wisconsin-Madison majoring in Industrial Engineering with an emphasis on manufacturing and health systems engineering. I enjoy being actively involved with professional organizations such as IIE, Society of Women Engineers (SWE) and National Organization for Business and Engineering (NOBE).

I have been an IIE member for just over 2 years as a student and recently joined IIE Twin Cities. Currently I hold the positions of IIE Twin Cities Chapter 38 Student Board Member and Fundraising Director for the IIE student chapter at UW-Madison. Outside of my fundraising obligations I enjoy playing on the UW IIE intramural broom hockey team, being involved with many community outreach events and preparing for the 2010 regional conference, which the UW-Madison chapter is hosting this February. For me, being involved in IIE has led to numerous friendships, unforgettable memories and countless learning opportunities.

I recently began working for Boston Scientific in the IE department as a "co-op," which can best be described as an eight month long internship. This experience so far has demonstrated to me the value of lean principles and instilled in me an attitude of continuous improvement. I am confident that I will acquire numerous skills and positive experiences over the duration of my employment.

I am someone who can have fun doing almost anything, but some of my favorite hobbies include scrapbooking, reading, jogging with my yellow lab, Emmy, watching football (Go Badgers!) and boating in the summertime.

I look forward to this year and the opportunity to increase my involvement with IIE at a professional level!

## President's Message

Dan Thury, IIE Twin Cities President



I want to start off my first president's message by saying that I'm extremely honored to be presiding over our outstanding Twin Cities chapter. For the first time in a long time, the Twin Cities chapter seems destined for Gold

Level chapter status in 2009! This is the highest level a chapter can achieve. I've been around and on the board for about 5 years now, and I can't tell you how impressed I am with the dedication of these individuals to support this organization and provide value to our membership.

I would like to welcome Kristen Forgea (Event Director), Eric Situmbeko (Event Director) and Marta Bogenschultz (Student Board Member) as first time board members. We also have John Wilson, John Kline, John Spriggs, Christy Strong, Sean Dveris, Jenna Weiland, Jason Materi and I in new roles on the board. I believe we have a good mix of experience and fresh ideas . . . and I'm excited to see what we all can do for our membership this year!

I also want to send out a BIG THANK YOU to a few board members we lost from last year. Cassie Johnson was the driving force behind our successful newsletter. Heidi Drafall pulled some serious double-duty last year by helping on the board and being a first time parent. Jeromy Knapp provided much needed technical support for our website. Finally, Mclain Woessner's contributions as the Student Board Member were key to our support of the student chapters.

Speaking of students, the IIE Midwest Student Conference is being held in two weeks in sunny Madison, Wisconsin. Once again this year, Chapter 38 will have members involved and supporting this great event for student IEs. Regarding the newsletter you all are reading right now, I'm very proud to announce that for the second year in a row we have received the Platinum award (highest possible!) from National IIE. I believe that having such a quality newsletter is an important way to bring information to our membership.

Please note that our first event of 2010 is going to be at PPT Vision in Bloomington. It should provide an interesting look at machine vision technology. Please check out all the details for this event in this newsletter and look for the Evite® notification.

I want to close by saying that this year our chapter will continue to provide value to our professional members, student chapters within our region and to the community of continuous improvement professionals in the Twin Cities. I want to encourage anyone reading this to get involved!! As much as you'd like, any and all participation is encouraged!

Cheers,

Dan Thury, IIE Twin Cities Chapter President

## IIE Twin Cities IE Student Scholarships Awarded

The Twin Cities IIE chapter feels that students are a vital part of the growth and activity within the industrial engineering profession. To foster this growth, there were five student scholarships awarded this year totaling \$1500.00. The intent of the IIE Twin Cities scholarship program is to recognize industrial engineering students who have contributed to the growth and activity of the IE profession or their Student IIE Chapter and have promoted industrial engineering within their school or community.

All of the candidates showed great leadership skills and a strong dedication to IIE. In the application process, students were asked about leadership activities within IIE, involvement in the community, and any other leadership activities. The scholarships were available to all IE students in Region 6.

Congratulations to the 2009-2010 scholarship winners!

**Allison Bryant, Senior at Iowa State University**

**Mclain Woessner, Senior at North Dakota State University**

**Laura McMullen, Sophomore at Iowa State University**

**Jason Thomas, Senior at North Dakota State University**

**Kayla Bosak, Senior at North Dakota State University**



*Congratulations!*

## Strategy Deployment Using A3 Thinking Event Summary

On November 12th, 2009 IIE Twin Cities conducted a half-day workshop on the topic of strategic deployment using A3 thinking. The workshop was lead by Didier Rabino, a plant manager at Andersen Corporation. In addition to his current role, Didier is a former corporate lean leader at Andersen and also worked for 13 years at Steelcase (US & Europe). What made Didier an outstanding choice to lead this event was his 18 years of experience in leading and supporting lean transformations and implementations.

The half-day event drew 10 member and non-member participants from around the Twin Cities and was held at the Ridgedale Public Library in Minnetonka. The venue turned out to be very conducive to the small, focused activities that were completed. Participants came from a diverse group of companies, including Boston Scientific, HealthEast, Minnetronix, Group Health Cooperative, Step PT, AMS and Andersen.



The content of the workshop included Didier defining strategic deployment, what is meant by A3 thinking, the stages of the strategy process (Generation, Deployment, Implementation, Evaluation), and how they all tie together. In addition, course objectives were also defined for this event so the participants knew what experience they would walk out with. Suffice it to say, Didier had the participants engage in enough case study examples, A3 tool templates, and general or specific dialogue during the event that everyone got their money worth!

Each participant received a workshop binder containing the presentation and take home materials to aid in implementation elsewhere. This workshop certainly provided an excellent way to add value to our customers while providing a way to raise money for student scholarships and future member events/activities.

If you are interested in hosting or attending a lean related workshop, please contact Dan Thury at [Dan.Thury@AndersenCorp.com](mailto:Dan.Thury@AndersenCorp.com).



## Local Job Opportunities

### Aseptic Manufacturing Technology Engineer

3M in Maplewood, MN

### Industrial Engineer

Cypress Semiconductor Corporation in Bloomington, MN

### Industrial Engineer

Electrolux Home Products in St. Cloud, MN

### Industrial Engineer

Princeton One in St. Cloud, MN

### Manufacturing/Industrial Engineer

Entegee in Minneapolis, MN

### Industrial Engineer

MRI Network in St. Cloud, MN

### Industrial Engineer

Cinci Engineering in Minneapolis, MN

Check out [iienet.org](http://iienet.org) and click on 'Jobs' for more information on these jobs and other opportunities outside the Twin Cities area.

**Are you looking for new employees? Advertise job openings in the IIE Twin Cities Newsletter!**

Send an email to [IIEtwinCities@gmail.com](mailto:IIEtwinCities@gmail.com) for more information.

## SPORT THE IIE LOGO!

**Introducing IIE Twin Cities Logo Dress Shirts**



Just \$40!

Men's and Women's shirts available in French Blue!

Send the following information to [John.Kline@mts.com](mailto:John.Kline@mts.com)

- Your Name
- Shirt Size (S, M, L, XL, 2X, 3X, 4X or 5X)
- Shipping Address

Please make your payment by check to "IIE Chapter 38" sent to IIE treasurer at: John Kline  
11025 France Avenue South  
Bloomington, MN 55431



Easy-care pinpoint dress shirt. Virtually wrinkle-free, easy-care 60/40 cotton/polyester blend done in tight 40x40 yarns.

## Welcome New Members!

IIE Chapter 38 would like to welcome new members who joined IIE, members who rejoined IIE and members who transferred into our local chapter:

- Russ Beebe, Ameriprise Financial, Inc.**
- Sarah Bockelmann, Franciscan Skemp-Mayo**
- Roopa Chandrasekaran, Boston Scientific**
- Gregg Damminga, Cypress Semiconductor, Inc.**
- David Duffy**
- Jason Hammerand**
- Darioush Jaihour, US Bank**
- Christopher Sweem, Minnetronix**
- Maryellen Upton, Boston Scientific**

Welcome to Chapter 38! Currently, we have 140 members.

Please remember to take a look at your membership and note when it is time to renew. By selecting Twin Cities Chapter 38 as your local chapter, a portion of your dues to IIE National comes back to support our chapter.

### NEW!! 2010 Twin Cities Chapter 38 Officers NEW!!

<b>Past President</b>	John Wilson, Boston Scientific	<a href="mailto:WilsonJ1@bsci.com">WilsonJ1@bsci.com</a>
<b>President</b>	Dan Thury, Andersen Corporation	<a href="mailto:Dan.Thury@AndersenCorp.com">Dan.Thury@AndersenCorp.com</a>
<b>President – Elect</b>	John Kline, MTS Systems Corp	<a href="mailto:John.Kline@mts.com">John.Kline@mts.com</a>
<b>Treasurer</b>	John Spriggs, Boston Scientific	<a href="mailto:John.Spriggs@bsci.com">John.Spriggs@bsci.com</a>

**Job Posting:**

**Engineer III  
Andersen Corporation  
Bayport, MN**



The privately owned business was founded in 1903 by Danish immigrant Hans Andersen and his family in Hudson, WI, where logs arrived via the St. Croix River. Today, Andersen Corporation is an international enterprise employing over 9,000 people at more than 20 locations with headquarters in Bayport, MN, a 2.8 million-square-foot facility that covers 65 acres. Andersen annually manufactures more than six million wood windows and doors, with sales worldwide.

**Focus/Objective:**

This position is responsible to effectively contribute to the enterprise key initiatives within the strategic engineering group.

**Job Responsibilities:**

- Demonstrated use of capital project management skills to deliver safe, effective, low cost capital solutions (Project planning, approval process, equipment specification, budget, Preventative Maintenance, acceptance plans, design review, safety assessments, capital request)
- Lead process support for Business Team strategic initiatives
- Interface with Advanced Design, Product Engineering, and other business partners on the design for manufacturability, process capability, and production builds of new product or product revisions.
- Lead continuous improvement projects aligned to lean manufacturing principles; lead cost reductions and yield improvements with delivery partners
- Assess current vs. future capacity requirements and implement capacity improvements.
- Develop and implement new and existing equipment acceptance plans
- Develop work methods and layouts
- Develop a capable equipment vendor supply chain
- Solid understanding of DMAIC tools; when to apply them, interpretation of results and application for effective solutions (Process map, process capability, C&E matrix, fishbone diagram, FMEA, MSA, DOE, control plan)
- Drive improvement activity
- Collaborate with delivery partners to determine appropriate projects of focus, using available data from observation, queries, process data, and working partner input
- Mentor developing technicians and interns/co-ops
- Utilize Value Stream Mapping tool to develop current state VSM's, interpret maps to identify improvement opportunities and create future state VSM's
- Participative team approach to problem solving and root cause analysis with associates, supervisors, maintenance, Value Stream Managers, and peers

**Minimum Qualifications:**

- 4 year degree in Engineering or Technology
- 5-10 years engineering experience
- Strong knowledge of lean manufacturing principles
- Strong project management skills, working with a collaborative and cross functional team
- Strong knowledge of quality systems, SPC and process capability. Strong Mechanical Aptitude

This position will be filled as an Engineer II or Engineer III, dependent upon qualifications.

**If you are interested in applying please go to our website at [www.andersenwindows.com](http://www.andersenwindows.com).**

## Chapter Activity Report Focus On: Community Affairs

### Inspiring the Next Generation of Girls into Engineering

The Society of Women Engineers Minnesota Section (SWE-MN) and the Institute of Industrial Engineers Twin Cities Chapter (IIE) with the sponsorship from Boston Scientific (7th year sponsoring) hosted 150 girls and 78 parents at the Arden Hills facility. We introduced the girls to a "World of Engineering" by doing the following experiments:

- Brilliant Bracelets (Industrial Engineering)
- Engineering Drawings 101 (Civil Engineering)
- Solar Cars (Mechanical Engineering)
- Butterfly Circuits (Electrical Engineering)
- Silly Putty (Chemical Engineering)

The girls had a fabulous time learning about the different aspects of engineering, learning that engineering touches everything and this profession can make a difference in the world. New this year was a separate Parent's Track, where the parents were invited to attend a 1.5 hour presentation on how to encourage your girl into engineering and why they should consider engineering.



The event was very well received and had parents saying this was the best event they had ever attended, and the advice received in the parents track was invaluable. The girls also had a great time and earned a special SWE patch for the Girl Scout sash.

A special thanks to our IIE Twin Cities Chapter members who volunteered their time and energy to run the "Brilliant Bracelets" Event: Bill Tolo, Christy Strong, Dan Kostecki, Jenna Weiland, Kristen Forgea, Maryellen Upton, Michelle Wick, Toni Guidarelli, Tracey Bauer, Jamie Chang, and Kelly Minchow!

Due to the positive feedback on the IIE sponsored "Brilliant Bracelets" workshop, we've been invited to host the workshop at Wow! That's Engineering for underprivileged girls in the Twin Cities area in April. If you're interested in getting involved, please contact Jenna Weiland at [Jenna.Weiland@bsci.com](mailto:Jenna.Weiland@bsci.com) or [IIEtwinCities@gmail.com](mailto:IIEtwinCities@gmail.com).



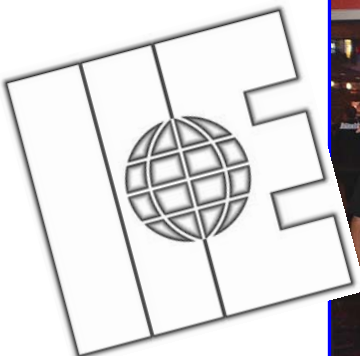
### NEW!! 2010 Twin Cities Chapter 38 Board Members NEW!!

Membership Director	Christy Strong, Boston Scientific	<a href="mailto:Christy.Strong@bsci.com">Christy.Strong@bsci.com</a>
Website Director	Sean Dveris, St. Jude Medical	<a href="mailto:SDveris@sjm.com">SDveris@sjm.com</a>
Events Co-Director	Kristen Forgea, Boston Scientific	<a href="mailto:Kristen.Forgea@bsci.com">Kristen.Forgea@bsci.com</a>
Events Co-Director	Eric Situmbeko, Andersen Corp	<a href="mailto:Eric.Situmbeko@AndersenCorp.com">Eric.Situmbeko@AndersenCorp.com</a>
Newsletter Director	Jenna Weiland, Boston Scientific	<a href="mailto:Jenna.Weiland@bsci.com">Jenna.Weiland@bsci.com</a>
Board Member at Large	Jason Materi, Boston Scientific	<a href="mailto:Jason.Materi@bsci.com">Jason.Materi@bsci.com</a>
Student Board Member	Marta Bogenschultz, University of WI Madison	<a href="mailto:Marta.Bogenschultz@bsci.com">Marta.Bogenschultz@bsci.com</a>

## November 2009 Social Event Summary

### Bowling with NDSU IIE Students

The Twin Cities IIE chapter had the opportunity to once again share bowling lanes with the North Dakota State student chapter. Each year, the NDSU student chapter takes a fall trip to the Twin Cities in which they tour local businesses and explore new topics in the world of industrial engineering. After a long day of tours, the NDSU group makes time to join the IIE Twin Cities chapter to eat pizza, enjoy some bowling and catch up on the latest IIE news. This event has grown into a highlighted annual event for both chapters.



## IIE Twin Cities Offers IIE Membership Discount for New IE Graduates

### Are you a recent IE grad still looking for employment or know of any that are?



If so, IIE Twin Cities can help you out! IIE Twin Cities offers monthly opportunities to network with industrial engineers from various companies around the Twin Cities, a monthly newsletter to keep you up to date with the latest job postings in the area, and the potential to further your leadership skills and gain resume boosters by joining a committee or the IIE Twin Cities Board of Directors.

Recent graduates are eligible for a "first year graduating member" dues discount of \$69.50. However, IIE Twin Cities is also willing to offer an additional dues rebate to students who have graduated, but have not yet found employment. Contact the Membership Director, Christy Strong, at [IIEtwinCities@gmail.com](mailto:IIEtwinCities@gmail.com) for more details.

## IIE Student Regional Conference: Feb 18-21 in Madison, WI

The IIE Student Region 6 Conference is being held in Madison, WI this year from February 18 – 21. The benefits in attending an IIE Regional Conference are both professional and social - exposing students to cutting edge industrial engineering issues, while also providing a valuable opportunity to network with IE colleagues.

Upon arrival on Thursday evening, students will begin this process in an informal setting, interacting with both other IE students and industry professionals. Friday's activities will expose students to industrial engineering applications in a real world setting. In the morning, students will tour some of Madison's most prominent companies and gain insight into the city's many diverse industries. Friday afternoon will expose students to more academic applications of the field, as they attend the region's annual Technical Paper Competition. Saturday will bring hands-on learning opportunities for students via interactive industrial engineering workshop sessions with numerous industry experts.



Saturday afternoon students may choose to attend recreational activities, representing the best that Madison has to offer, or schedule interviews/informal networking discussions with the sponsors of our conference. Students are encouraged to submit their résumés prior to conference and they will be provided to sponsoring companies via our private, sponsors only, webpage. Sponsors will then have the opportunity to get in touch with possible internship or professional candidates prior to conference and schedule interviews in UW-Madison Engineering Career Services' Interview Suites. By Saturday evening's formal banquet, students will have gained new insight into the industrial engineering field and have learned new skills to apply to future endeavors. After a thought provoking keynote speaker, dinner, and awards from the various competitions, students will complete their experience by enjoying a Saturday night bowling event.

If you would like to attend or would like more information, please visit the conference website <http://iieconference.engr.wisc.edu> or contact [iieconference@engr.wisc.edu](mailto:iieconference@engr.wisc.edu).

*Check out the IIE Twin Cities Chapter 38 website: <http://www.iienet.org/twincities>*

## What is IIE?

IIE is the world's largest professional society dedicated solely to the support of the industrial engineering profession and individuals involved with improving quality and productivity. Founded in 1948, IIE is an international, non-profit association that provides leadership for the application, education, training, research and development of industrial engineering.

With approximately 15,000 members and 280 chapters worldwide, IIE's primary mission is to meet the ever-changing needs of industrial engineers, which includes undergraduate and graduate students, engineering practitioners and consultants in all industries, engineering managers, and engineers in education, research and government.

## What is the Twin Cities Chapter?

The Twin Cities IIE Chapter 38 provides a network for individuals within Minnesota and surrounding areas to collaborate about industrial engineering. Our members include professionals with industrial engineering degrees, both working in IE roles & non-IE roles and professionals working in industrial engineering related functions. We provide monthly events which include topics in professional development, Lean, Six Sigma, Quality, process improvement and tours at distribution centers, manufacturing facilities, hospitals and consulting firms. We also promote the industrial engineering profession by providing scholarships to IE students and becoming involved with several student IIE chapters.

Are you currently unemployed or are you experiencing hardship in these tough economic times?



IIE Twin Cities can help! Contact Christy Strong, Membership Director, at [Christy.Strong@bsci.com](mailto:Christy.Strong@bsci.com) for details on how IIE can offer you discounts on events and membership.

# Upcoming Events

## February

- 19 Eweek Annual Awards and Recognition Banquet
- 20 IEEE Eweek Event at the Bakken Museum
- 25 **IIE Twin Cities Machine Vision Tour**
- 27 Tech Fest "All Things Engineering" at the Works Museum

## March

- TBD **IIE Andersen Windows Event**
- 8 56<sup>th</sup> Annual Minnesota Quality Conference
- 25 Exhibitor Tech Fair and Seminars sponsored by Twin Cities Section of the ISA

Details on all IIE Chapter Events can be found at [www.iienet.org/twincities](http://www.iienet.org/twincities).

Details on all other events can be found at [www.mfests.org](http://www.mfests.org).

All events are subject to change.

