

March 2011

CHAPTER 38 NEWSLETTER



Institute of Industrial Engineers

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Twin Cities

Donaldson Co. Tour

Thursday April 14, 1:00 PM - Baldwin, WI

Continuous Improvement and Lean in Aerospace and Defense

About this event:

Donaldson Co. in Baldwin, WI has invited IIE members and guest to join them for a **FACILITY TOUR** and **LEAN / CONTINUOUS IMPROVEMENT PRESENTATION**.

Attendees will have the opportunity to see how Continuous Improvement and Lean Manufacturing is implemented in Aerospace and Defense industry.

The presentation and tour will have interactive discussions that will produce in-depth questions about the Donaldson Production System (DPS).

Schedule/ Agenda:

- 1:00 PM - Arrival
- 1:10 PM - Introductions, Lean/Continuous Improvement Presentation
- 2:10 PM - Facility Tour
- 3:10 PM - Discussion
- 4:00 PM - Close

Location:

Donaldson co.
980 Locust Street
Baldwin, WI 54002-5158



Cost:

The cost is \$10 for members; \$15 for non-members. You may pay by PayPal, by e-mailing IIEtwinCities@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 1 non-member to this event you can attend for \$5, if you bring 2 or more non-members to this event you can attend for FREE!

Reservations:

An Evite® invitation will be sent out 3 weeks prior to the event. If you do not receive the invite, send your RSVP to IIEtwinCities@gmail.com. Only 25 spots are available; these spots will go to the first 25 people who have paid.



Excellent Opportunity - IIE Behind the Scenes

Please join IIE Twin Cities on **April 4th and 5th** as we partner with IIE Nationals on a two day tour designed to educate and inspire both the recent IE graduate and the seasoned professional. This is your chance to peak behind the curtain at world class Minneapolis businesses to learn the secrets of their success.

Please visit the IIE website for more information.

www.iienet.org/behindthescenes

TWIN CITIES IIE MEMBER PROFILE:

Corin Hammit

I grew up in Wisconsin and upon graduation from high school I decided to jump into engineering school at the University of WI. I initially tried follow in my father's footsteps and become a Chemical Engineer, but after the first few advanced chemistry classes my enthusiasm for that career dissipated.... quickly. Luckily, my advisor enlightened me in the profession of Industrial Engineering. After my first few courses I was hooked. I found that I naturally think about processes and efficiency.



After graduation I went into Technical Sales and Marketing with ABB Inc. I met my husband at ABB Inc. and we settled in Kansas City in 2005 - who knew I would fall for another engineer! The move to Kansas City brought a new job opportunity in Healthcare IT. I worked at Cerner Corporation designing clinical processes that leveraged evidence-based medicine. My focus on processes helped me model the workflows that would later be built into the electronic health record.

In 2007, a new job opportunity for my husband brought us to Minnesota. I continued my endeavor into healthcare and worked at Children's Hospital as a Lean Fellow. While there, I went through extensive Lean training and helped lead the Surgical Services Value Stream.

Now I am a Process Improvement Consultant at HealthEast Care System. I work to help our 4 hospitals improve the patient experience by reducing unnecessary steps and delays. I am also leading the organization's transformation to A3 management. The passing of the Healthcare Reform bill in 2010 is bringing many changes to the industry. My IE background is proving to be essential as we look to redesign our care models, increase coordination, and improve quality while creating efficiencies.

To continue my professional development, I am working on my Masters in Healthcare Administration from the University of Minnesota and I have joined the IIE Board of Directors as a Board Member at Large. I am excited to get re-engaged in IIE by learning from other IEs, touring facilities, and socializing.

Outside of work and school, I love to travel (the above picture is from a trip to Munich last fall), cook, run, practice yoga, and spend time with my husband and our extremely energetic golden retriever.

President's Message

John Kline, IIE Twin Cities President



Hopefully this newsletter finds everyone looking forward to spring and warmer temperatures. Last year was an outstanding year for the Twin Cities IIE Chapter as active membership increased, connections were made with students from multiple universities and events were highly attended and successful.

Highlights for 2010 include the Platinum Newsletter Award and a projected Chapter Gold award from the National IIE organization. I would like to send a special thank you to Jenna Weiland for her hard work creating the newsletters and Dan Thury for leading us to the gold award.

Along with a new year, comes a new board of directors. I would like to thank Sean Dveris, Jason Materi, and Marta Bogenschultz for all of their help this past year. They played a huge part in making 2010 a success. A special thank you goes out to John Wilson for his years of support serving multiple positions, including president of the IIE Twin Cities Chapter. John demonstrated excellent leadership and played a large part in improving the chapter to its current state.

I am excited to work with the returning board members and welcome first time board members Peter Nelson (Membership Director), Corin Hammitt (Board Member at Large) and Tom Rohlf (Student Board Member). 2011 is looking like another fantastic year for Chapter 38. Plans include two half-day learning events, four to six informative tours, and multiple networking events. We will continue to develop our relationships with the Region Six student chapters and support them whenever possible.

I am excited for 2011 and believe this is going to be another outstanding year for our chapter. Grab a friend or co-worker and join us for a couple events!



UPS Tour Event Summary

In December we had a great IIE Event at one of the Twin Cities UPS Facilities. We had several Industrial Engineers (who work at various Twin Cities UPS facilities in different types of roles) talk about what they do and how the operations at that facility work. The event started with a presentation to get us acquainted with the operations - this included how the operations are run, the complexity of the automation within the facility, and how UPS manages to get all of our packages where they need to go on time!

The group spent about 45 minutes walking through the facility. We saw everything from fully manual to fully automated sorting systems. It's truly incredible how many packages make it through there in a day. The sophistication of the equipment at UPS makes this all possible. We were astounded at how RFID and conveyors were used to automatically direct almost every package to the truck that would take it to its final destination.

There are always new opportunities to optimize (loading of trucks, routing of trucks, movement of packages within the facilities) at UPS and many Industrial Engineers find a home here. That said, the Industrial Engineers we talked to worked in roles ranging from Facilities to Maintenance. It was another excellent event. Special thanks to Anne Selene for working with us to make this possible!



15th Annual Mayo Clinic Quality Academy Conference May 3-4 2011

"Creating and Paying for Value in Healthcare"

Mayo Civic Center
Rochester, MN

Register now!

www.mayo.edu/cme/quality-2011r207



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

Local Job Opportunities

Manufacturing/Product Engineer

Nortech Systems, Inc. in Blue Earth, MN

Process Improvement Development Leader

Honeywell in Golden Valley, MN

Senior Business Process Analyst

The Schwan Food Company in Bloomington, MN

Supply Planning Analyst

Imitation Corp. in St. Paul, MN

Senior Manufacturing Engineer

St. Jude Medical in Minnetonka, MN

Process Improvement Manager

Allina Health System in Minneapolis, MN

Optimized Operations Industrial Engineer

3M in Fairmont, MN

Check out iienet.org and click on 'Jobs' for more information on these jobs and other opportunities outside the Twin Cities area.

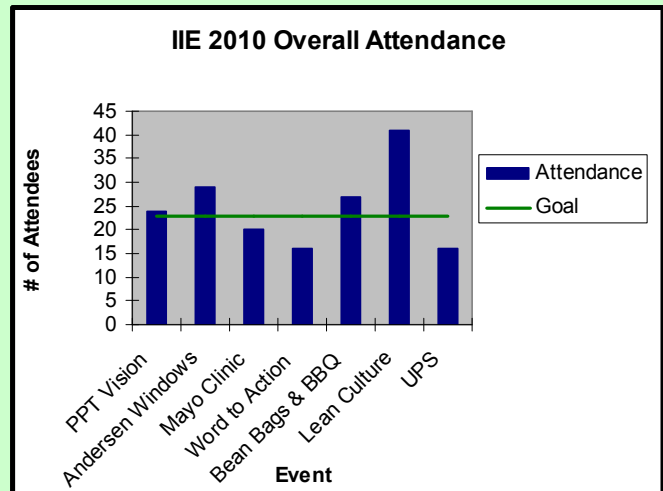


Are you looking for new employees? Advertise job openings in the IIE Twin Cities Newsletter!

Send an email to IIETwinCities@gmail.com for more information.

2010 IIE Event Attendance

The below graph displays the overall attendance (both member and non-member) at the IIE Twin Cities events held in 2010.



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:

Sarah Bockelmann, Franciscan Skemp Healthcare

John Kline, Boston Scientific

Srikanth Peddireddy, Hennepin County Medical Center

Anne Selene

Travis Zupfer, Boston Scientific

Welcome to Chapter 38! Currently, we have 121 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.

2011 Twin Cities Chapter 38 Officers

| | | |
|-------------------|---------------------------------|--|
| Past President | Dan Thury, Andersen Corporation | Dan.Thury@AndersenCorp.com |
| President | John Kline, Boston Scientific | John.Kline@bsci.com |
| President – Elect | John Spriggs, Boston Scientific | John.Spriggs@bsci.com |
| Treasurer | Eric Situmbeko, Andersen Corp | Eric.Situmbeko@AndersenCorp.com |

Questions? Comments? Send an email to IIETwinCities@gmail.com

Job Posting:

Engineer I,II or III (Manufacturing Engineer)
Andersen Corporation
Bayport, MN

Focus/Objective: This position is responsible to effectively contribute to capacity expansion and support of new products. This will be done through leading large-scale projects/assignments and/or playing the key technical role in projects/assignments requiring an exceptionally high level of unique expertise.

Job Responsibilities:

- Assess current vs. future capacity requirements and implement capacity improvements.
- Develop and implement new and existing equipment acceptance plans
- Develop work methods and layouts
- Lead process support for strategic initiatives
- 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)
- 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
- 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.
- Mentor developing Technicians and Interns/Co-ops
- Utilize Value Stream Mapping tool to understand the current state, to identify improvement opportunities, and create the future state.

Minimum Qualifications:

- 4 year degree in Engineering or Technology
- 3-10 years engineering experience
- Strong knowledge of lean manufacturing principles. Strong project management skills and 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 I, Engineer II or Engineer III, dependent upon qualifications. If you are interested in applying, please go to our website at www.andersenwindows.com.



Job Posting:**Manufacturing Engineer
Andersen Corporation
Menomonie, WI Plant**

Focus/Objective: This position is responsible to effectively contribute to capacity expansion of a new window product in our Menomonie, WI facility. This will be done through leading large-scale projects/assignments and/or playing the key technical role in projects/assignments.

Job Responsibilities:

- Assess current vs. future capacity requirements and implement capacity improvements.
- Develop and implement new and existing equipment acceptance plans
- Develop work methods and layouts
- Lead process support for RTQ&E strategic initiatives
- 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)
- 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
- 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.
- Mentor developing Technicians and Interns/Co-ops
- Utilize Value Stream Mapping tool to understand the current state, identify improvement opportunities, and create the future state.

Minimum Qualifications:

- 4 year degree in Engineering or Technology
- 1-10 years engineering experience
- Willingness to work at our Menomonie, WI facility for the duration of this capacity expansion project (min 2 years)
- Strong knowledge of lean manufacturing principles. Strong project management skills and 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 I, Engineer II or Engineer III, dependent upon qualifications. If you are interested in applying, please go to our website at www.andersenwindows.com.



Job Posting:

Supply Chain Analyst I, II or III
Andersen Corporation
Bayport, MN

Focus/Objective: Develops across supply chain business models to achieve major improvements within business process, demand planning, capacity management, inventory management or logistics costs. Works with management team to develop supply chain disciplines and best practices. Defines and establishes material and information flow for new product introductions and strategic cost reductions. Requires an exceptional level of strategic thinking, change initiation and long term corporate perspective.

Job Responsibilities:

- Propose, implement and support multi-site or high level business tools and process enhancements (continuous process improvement)
- Analyze, and document processes using standards and methodologies
- Analyze entire supply chain including logistics costs, materials and sources
- Recommend improvements based on supply chain analysis
- Lead integration of new high level process changes
- Manage large projects related to changes in the supply chain
- Communicate project status to all levels of management
- Represent the supply chain on cross functional business unit teams
- Develops and delivers business plans or models for operations management and other supply chain leaders
- Requires ability to define high risk or high level problems, collect data, analyze data, offer solutions, and implement to achieve the desired results
- Identify, develop and complete strategic level work plans for entire supply chain or high risk projects
- Own, develop and implement business processes and related improvements
- Facilitate large teams having explicit objectives and scope
- Manage entire supply chain cross-functional projects
- Ability to align project or process improvement goals with functional business objectives
- Ability to work independently across the entire supply chain and thrive in non-hierarchical organization

Minimum Qualifications:

- Requires a 4 year degree in Engineering, Business, Supply Chain or equivalent experience
- Requires 2-10 years of experience in scheduling, purchasing, inventory management, and/or continuous improvement
- Experience with lean manufacturing tools (kaizen, A3, etc.) Enterprise Resource Planning (ERP), project management, Excel and reporting tools preferred
- Experience in a Make-To-Order, fixed lead time environment preferred

*This position will be filled as an Analyst I, Analyst II or Analyst III, dependent upon qualifications. If you are interested in applying, please go to our website at www.andersenwindows.com.

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Chapter Activity Report Focus On: Student Outreach 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 four student scholarships awarded for last year totaling \$1000.00. 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. The scholarships were available to all IE students in Region 6.



Congratulations!

Lindsey Hermanson, Senior at North Dakota State University

I am currently serving as a Corporate Relations Officer where I recently planned our entire 2010 fall trip to the Twin Cities area, where we met with four companies and attended a networking event with the IIE Twin Cities Professional Chapter. I am also utilizing this office by contacting companies and building relations to prepare for the spring conference 2012, which is being hosted by NDSU. I am also involved in Kappa Delta Sorority where I have been Vice-President Standards, Vice-President Operations, and numerous other smaller offices. I am currently the President of Alpha Pi Mu, the industrial engineering honor society and am a member of Mortar Board here at NDSU. I have volunteered as a UNIV 189 mentor for the past two years talking with freshman about future possibilities in industrial engineering as well as general questions and concerns of student life.

Kathrin Roesler, Senior at North Dakota State University

Last April, I was voted in to serve as NDSU IIE Student Chapter President for the 2010-2011 academic year at NDSU. My goal this year is to increase the number of IIE members at NDSU in preparation for the 2012 regional conference that NDSU will be hosting. Next semester, I look forward to planning and promoting many more IIE events, and gathering funds so our local chapter can attend the regional conference in Ames, Iowa.

IIE is a great way to network with employers from different companies and really understand what industrial engineering involves. It gives you a different feeling about the major that you cannot experience in the classroom. Also, I think all IIE students need to get involved with NDSU's chapter of IIE because it is a great program. I will be an advocate for it long after my years at North Dakota State University.

Loryn Schuetzle, Senior at South Dakota School of Mines & Technology

(I actively promote IIE by) planning, directing, and participating in chapter fundraising activities, community service for the chapter (canned goods hunting for the local food bank), design of the rivalry t-shirts and regional conference (chapter) t-shirts, conference-trip logistics team, regular chapter leadership and chapter membership meetings.

Other Activities/Community Involvement:

- Undergraduate TA for IE Department
- Contributing journalist for the SDSM&T Raver
- President of the SDSM&T Art Technology Society
- Member of Tau Beta Pi
- Student Ambassador for SDSM&T

Tyler Samuelson, Junior at North Dakota State University

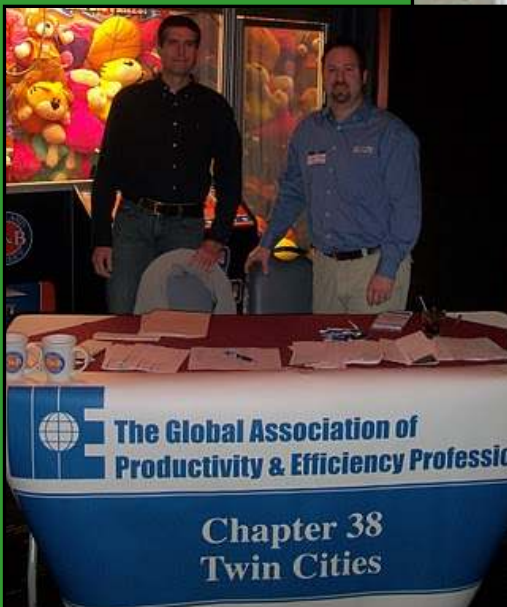
One way that I actively promote IIE is through my officer position as the Public Relations Representative. Within that position I have gone to classrooms promoting IIE trying to get new students to join. I also make flyers for events we are having and promoting the organization in general. I also attend meetings and attended our annual fall trip to the Twin Cities where we toured manufacturing facilities and met with the IIE Twin Cities Professional Chapter. I am also currently helping in the planning of the 2012 IIE spring conference that we will be hosting.

I am currently involved in Bison Ambassadors which is a group that serves the students of the past, present, and future at NDSU. I am also a member of Engineering and Architecture Ambassadors which is an organization that serves the college of Engineering and Architecture.

NDSU Networking Event Summary

North Dakota State made their annual trip to the Twin Cities on November 11th and 12th. They participated in company tours and spent time with the Twin Cities IIE Chapter 38 at Dave and Busters.

The evening was highlighted by a keynote address from John Wilson and challenges sponsored by the IIE Senior Chapter. The group also enjoyed food and the arcade after the presentation was complete. A good time was had by all and many new connections were made.



2011 Twin Cities Chapter 38 Board Members

| | | |
|-----------------------|---|---------------------------|
| Membership Director | Peter Nelson, Boston Scientific | Peter.Nelson@bsci.com |
| Website Director | McLain Woessner | mclain.woessner@gmail.com |
| Events Co-Director | Kristen Forgea, Boston Scientific | Kristen.Forgea@bsci.com |
| Events Co-Director | Robert Wessel, Caterpillar | wessel_rob@cat.com |
| Newsletter Director | Jenna Weiland, Boston Scientific | Jenna.Weiland@bsci.com |
| Board Member at Large | Christy Strong, Boston Scientific | Christy.Strong@bsci.com |
| Board Member at Large | Corin Hammitt, HealthEast Care System | cehammitt@healtheast.org |
| Student Board Member | Tom Rohl, University of Wisconsin Madison | Tom.Rohl@bsci.com |

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



Mark your calendar!

IIE Behind the Scenes

Please join IIE Twin Cities on April 4th and 5th as we partner with IIE Nationals on a two day tour designed to educate and inspire both the recent IE graduate and the seasoned professional. This is your chance to peek behind the curtain at world class Minneapolis businesses to learn the secrets of their success.

Participating companies include: 3M, Andersen Corporation, Boston Scientific and Honeywell.

Please visit the IIE website for more information.

www.iienet.org/behindthescenes



Who Should Attend the IIE National Conference?

Leaders, engineers and department professionals should be at this conference. If you are charged with improving effectiveness or quality in your organization, then we have a seat saved for you. This is your profession's main event!

- Vice presidents, directors and managers
- Six Sigma leaders
- Quality professionals
- Industrial engineers
- Systems engineers
- Manufacturing engineers
- Safety engineers
- Management engineers
- Lean managers
- Business consultants
- Production managers
- Project engineers and project managers
- Ergonomists
- Health care management engineers

Visit www.iienet2.org/Annual for more information

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.



Upcoming Events

March

- 12 SWE Spring Professional Development Seminar
- 14-15 ASQ Minnesota Quality Conference
- 31 IIE North Central Regional Student Conference in Ames, Iowa

April

- 4-5 Behind the Scenes Twin Cities tours
- 14 Donaldson Co. Tour

May

- TBD – Supervalu Event
- 21-25 Annual Conference

Details on all IIE Chapter Events can be found at www.iienet.org/twincities.

Details on all other events can be found at www.mfests.org.

All events are subject to change.

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, Peter Nelson, at IIEtwinCities@gmail.com for more details.

Questions? Comments? Send an email to IIETwinCities@gmail.com

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