



**Institute of Industrial Engineers
Chapter 47
NEWSLETTER
Greater Detroit Area
Michigan**

Mission:
The Mission of the Detroit Chapter is to promote the advancement of Industrial Engineering by providing professional development information and resources to our customers.

Volume 49, No. 2

Apr-Jun, 2005

Visit us on the web [http:// www.iiedetroit.org](http://www.iiedetroit.org)

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University of Michigan, Ann Arbor, Catherine Tallerico
University of Michigan, Dearborn, Jory Bales
Wayne State University, Virginia Lingham
Oakland University, Neha Pathan
Kettering University,



Tuesday, April 12th

Introduction to Lean Manufacturing & Applications of RFID in Manufacturing



Joint meeting between IIE and APICS Greater Detroit Chapters:

- How do you identify & eliminate waste to become a lean enterprise?
- What is the ROI in RFID (radio frequency identification) technology?

Location: Sheraton Novi, 21111 Haggerty Road, Novi, MI

Cost: Dinner and Meeting: Members \$35, Non-Members and Guests: \$40, Full-Time Students with valid ID \$25, Meeting Only: \$5

Time: 5:30 – 6:00 P.M., Registration and Networking

6:00 – 6:45 P.M., Pre-dinner Presentation. Speaker: Banks Roden

6:45 – 7:30 P.M., Dinner

7:30 – 8:30 P.M., Keynote Presentation. Speaker: Dennis C. Carmichael

Registration: Please call APICS registration at (248) 443-9630

IIE Six Sigma Green Belt Class, April 19-21st - Detroit

Registration Fee: IIE Member: \$1195 | Non-member: \$1345

Course Details: 3 days | 2.1 CEUs, Green Belt Certificate (see page 9).

Register at: Visit: www.iieseminars.org or call: 1-800-494-0460

For additional info, contact Witold Wasniewski at 248-524-7319 or vw6529@sbc.com

Friday, April 22nd

American Axle & Manufacturing Plant Tour

See Page 4.

RSVP by April 19th. Register with IIE: 313-438-0205



May 14-18, 2005

IIE Annual Conference in Atlanta, GA

See Page 10 (back cover) for more information.



Friday, June 17th

American Axle & Manufacturing Tech Center Tour

See Page 4.

RSVP by June 14th. Register with IIE: 313-438-0205



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President's Message

by Bijay Nayak

IIE Members & IE Practitioners,

Thanks for your support and participation in the IIE Greater Detroit Chapter activities in the first quarter.



In my January 2005 message my first goal was to develop joint partnerships and programs with other professional institutions in Metro Detroit area, such as SAVE, SME, APICS, ASQ etc. In the first quarter we had two very interesting joint chapter programs with SAVE Greater Michigan Chapter on "Improving Value in Research & Development" by **Drew Algase**, Master Black Belt at Freudenberg NOK, and with SME Oakland/Macomb Chapter 69 on "The Changing Face of Automotive Manufacturing" by **Dr. Jay Baron**, President & CEO of Automotive Research Council. I am sure the IIE-GDC members enjoyed it immensely.

IIE-GDC Board Officers also attended ESD Banquet. Congratulations to all Board Officers for the chapter receiving "Partner of the Year Award", **Tej Jhamb** for "Service Excellence Award" and **Gary Altman** for "Irv Otis Scholarship".

The Greater Detroit Chapter again received the Gold Award in 2004 for Chapter Development. It is the highest award from IIE National for a chapter's accomplishments, organization and activities.

I congratulate **Ron Brzuch** for the Chapter newsletter receiving its 5th consecutive Platinum Award in 2004, also the highest award from IIE National.

On behalf of IIE-GDC Board, I congratulate **Dr. Patrick Dessert**, Student Advisor for starting Oakland University Student Chapter and welcome to all Board Officers of Oakland University Student Chapter.

University of Michigan, Dearborn Student Chapter is up running quite actively. Thanks to UMD Student Chapter Board Officers for their initiative, enthusiasms, and never say die spirit.

The Information Technology Group, comprising **Dr. Patrick Hillberg**, **Sagar Murty** and **Kristen Cavender** have done marvelous jobs of streamlining web-site, e-mails, list serve, members roster, etc., so that the chapter information system & database are

up-to-date.

The IIE Region-4 Training Course on "Six Sigma" is planned in April 2005 by **Vito Wasniewski**. Please enroll to attend the course at an affordable price. For details, please contact Vito Wasniewski.

The 2nd quarter chapter programs are planned for variety of activities such as Plant Tour & Tech Center Tour at American Axle & Manufacturing, Inc., joint chapter meeting with APICS, Detroit Chapter, IIE-GDC's representation at IIE National Conference in May 2005 and presentation at its Leadership Forum. **Tej Jhamb** will represent IIE-GDC in the National Conference 2005.

The 2005 Lean Six Sigma Value Management Symposium preparations are under way. The speakers and workshop leaders are finalized.

In the 2nd quarter my personal focus will be on to:

1. Develop IIE-GDC Standard Operating Procedures (SOP) Manual.
2. Complete Functions & Responsibilities (F & R) of all Board Officers.
3. Support IIE Student Chapters to develop their organizational leadership & professional skills, and promote IIE within universities.

I personally thank you all for your membership and continuing support to IIE Greater Detroit Chapter. I encourage you to participate actively in the day-to-day activities of the chapter. I welcome you to get involved in the Board activities by attending Board meetings. If you have any comments or recommendations, please feel free to send me an e-mail at bnayak@msn.com.

Thank you and enjoy the spring season. **Bijay**

Up Coming Events in 2005

- Apr 12, 2005, APICS/IIE Joint chapter meeting
- Apr 22, 2005, American Axle Manufacturing Plant Tour
- May 14-18, 2005, National IIE Conference
- Jun 17, 2005, American Axle Tech Center Tour
- Jul 17, 2005, Golf Outing
- Aug 17, 2005, The Harbour Report
- Sep 20, 2005, Student Chapter Joint meeting
- Oct 21, 2005, IIE Symposium
- Nov 15, 2005, Hospital Tour
- Dec 16, 2005, Inauguration and Holiday Dinner

Tuesday, April 12th

Introduction to Lean Manufacturing & Applications of RFID in Manufacturing



Joint Meeting between the
Greater Detroit Chapters of
IIE and APICS



Location: Sheraton Novi, 21111 Haggerty Road, Novi, MI

Cost: Dinner and Meeting: Members \$35
Non-Members and Guests: \$40
Full-Time Students with valid ID \$25
Meeting Only: \$5

Registration: Call APICS to register at (248) 443-9630

5:30 – 6:00 P.M., Registration and Networking
6:00 – 6:45 P.M., Pre-dinner Presentation
6:45 – 7:30 P.M., Dinner
7:30 – 8:30 P.M., Keynote Presentation

Pre-dinner Presentation: 6:00 – 6:45 P.M. **Introduction to Lean Manufacturing**

This presentation illustrates procedures companies use to identify and eliminate waste to become a lean enterprise. It also covers a variety of tools that are used and covers such topics as the transparent workplace, lean process improvement, lean product development, just-in-time, controlling processes, and continuous improvement.

Speaker: Banks Roden

Mr. Roden is president of Banks Roden Consulting and past president of the Detroit chapter of APICS. He earned a Bachelor of Science in Industrial Engineering from the University of Tennessee and Masters of Manufacturing Systems Engineering at the State University of New York, Buffalo. Mr. Roden has over 30 years of experience in manufacturing. As a global manufacturing consultant, he led engagements in Asia, Europe and North America, including major lean programs for GM, Delphi, and American Axle. He specializes in lean manufacturing, ERP, and maintenance. Mr. Roden also serves on the board of directors for the chapter.

Keynote Presentation: 7:30 – 8:30 P.M. **Applications of RFID in Manufacturing**

Radio-Frequency Identification or RFID is a form of Auto-ID that relies on radio waves rather than physical contact or line-of-sight readers. The presentation discusses key benefits of using RFID technology and introduces practical applications of RFID in a manufacturing environment. It highlights important factors that should be considered in adopting RFID to maximize return on investment.

Speaker: Dennis C. Carmichael

Mr. Carmichael is co-founder and president of Cimulus,

Inc., a software development and integration company focusing on technical and industrial systems for productivity and efficiency. Mr. Carmichael earned a Bachelor of Science in Electrical Engineering from Kettering University (formerly GMI Engineering & Management Institute). Mr. Carmichael's professional experience includes a strong background in engineering and product development, including digital electronics, embedded systems and laser optics. He has also worked in a number of supervisory positions, over both development and non-technical staff. Mr. Carmichael is a member of the Washenaw Community College's Computer Information Systems Committee, and an active contributor to the Filtering and Collection working group defining the EPCglobal RFID data standards.

About APICS

APICS was founded in 1957 as the American Production and Inventory Control Society, Inc. APICS—The Educational Society for Resource Management is the recognized global leader in professional certifications, educational programs, and publications for manufacturing and service industry professionals across the entire supply chain. The society supports nearly 60,000 members in 20,000 companies worldwide. To learn more, visit the APICS community at www.apics.org.

General Directions to

Sheraton Novi, 21111 Haggerty Road, Novi, MI

From East

Take Interstate 696 East to I-275 South to Exit 167 (8 Mile Road). Go right (west) on 8 Mile Road to Haggerty Road. Turn right (north) and the hotel will be on the left.

From North

Take Interstate 275 South to Exit 167 (8 Mile Road). Go right (west) on 8 Mile Road to Haggerty Road. Turn right (north) and the hotel will be on the left, 3 blocks down.

From Interstate 96

Take Interstate 96 to Interstate 275 North. Take Interstate 275 North to Exit 167 (8 Mile Road). Go left (west) on 8 Mile Road to Haggerty Road. Turn right (north) and the hotel will be on the left, 3 blocks down.

From West

Take M-14 to Interstate 275 North to Exit 167 (8 Mile Road). Go right (west) on 8 Mile Road to Haggerty Road. Turn right (north) and the hotel will be on the left, 3 blocks down.

From South

Take Interstate 275 North to Exit 167 (8 Mile Road). Go left (west) on 8 Mile Road to Haggerty Road. Turn right (north) and the hotel will be on the left, 3 blocks down



Friday, April 22nd

American Axle & Manufacturing Plant Tour

The Detroit Gear & Axle facility is AAM's largest that produces state-of-the-art front and rear axles. The facilities were established at the turn of the century and were recently upgraded and modernized.

Speakers and Tour Guides:
Chris Bilkie & Sherry Jacobs, AAM Inc.

12:30: PM - 1:00 PM Social, networking
1:00 PM - 3:00 PM Tour
RSVP by April 19th. Register with IIE: 313-438-0205

Parking Instructions:
Located just northeast of I-94 & I-75 intersection.
From either North or South I-75, take Holbrook / Caniff exit and turn East on Holbrook. Just before the railroad tracks on the right side will be a parking lot with a security station. Park and walk across tracks to the main lobby entrance on the right (south) side of the street. Check in with receptionist and identify as member of IIE.



Friday, June 17th

American Axle & Manufacturing Technical Center Tour

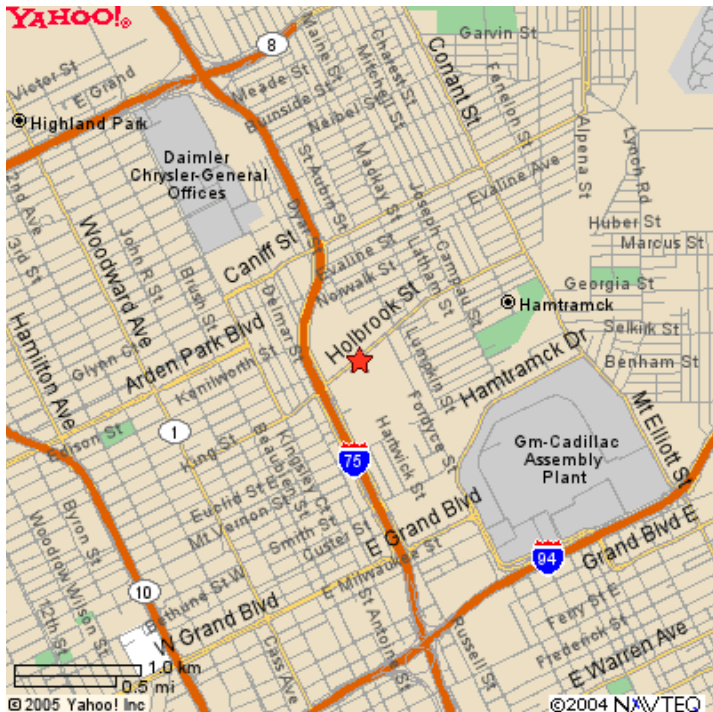
American Axle & Manufacturing (AAM) is GM's right-hand man for driveline systems and forged products. AAM makes axles, driveshafts, and chassis components, mainly for light trucks and SUVs. The tier 1 supplier gets about 80% of its business from GM, DCX accounts for about 10%, with remainder in PACCAR, Volvo and Ford.

The Technical Center Tour will demonstrate several areas including: Test Lab, NVH Lab, Road Simulator, Advanced Engineering & Materials Engineering Labs.

Speakers and Tour Guides:
Jim Downs & Don Kurecka, AAM Inc.

12:30: PM - 1:00 PM Social, networking
1:00 PM - 3:00 PM Tour

RSVP by June 14th. Register with IIE: 313-438-0205



American Axle & Manufacturing, Detroit Gear & Axle Plant, 1840 Holbrook Avenue, Detroit (Hamtramck), Michigan 48212



American Axle & Manufacturing, Technical Center, 2965 Technology Drive, Rochester Hills, Michigan 48309

ACTIVITIES FROM IIE STUDENT CHAPTERS

Wayne State University, University of Michigan - Dearborn, University of Michigan - Ann Arbor,
Oakland University, Kettering university

Are You a WSU Alumni?

We are pleased to announce the first annual Student and Alumni Networking reception for the Department of Industrial and Manufacturing Engineering at Wayne State University. Our faculty and staff invite you and your family to join us on:

Sunday, April 3, 2005

6:00 p.m. – 8:30 p.m.

**in the
IME 2nd Floor Conference Room**

Our goal is to provide current students with opportunities to develop on-going relationships with graduates from IME, and leverage the experience of alumni currently employed in the industrial engineering field.

Highlights of the evening will include a State-of-the-Department address from the IME department chair, Dr. Kenneth Chelst; an update on recent initiatives in recruiting the most qualified students in Southeast Michigan from the undergraduate program chair, Dr. Darin Ellis; student led department tours and great food.

We look forward to your participation in the Student and Alumni Networking reception as we continue to develop the next generation of industrial engineering leaders at Wayne State.

PLEASE RSVP TO:

Gail Evans: Gevans@eng.wayne.edu or
Terry Fischer: 313-577-4655

From the Wayne State Univ IIE Student Chapter

Here is the revised IIE-WSU update and the complete flier for the First Annual Student and Alumni Networking Reception of recent events.

2/18/2005 to 2/20/2005

IIE Regional Conference in Kalamazoo

Six members attended

3rd Place in IIE Region 4 Technical Paper Competition

2/26/2005 Saturday

Gleaner's Food Bank Volunteer Day, 5 volunteers.

Newer member came for this social and volunteer event. He is attempting to recruit other sophomores.

3/3/2005 Thursday

Joint IIE/SME Meeting in IME Conference Room for the election of Society of Manufacturing Engineers Officers and discussion on how the two organizations can work together. SME Treasurer elected. Attending seven SME students, SME Regional Development Speaker, Dr. Ellis and myself.

3/30/ 2005 Wednesday

Jiffy Mix Plant Tour in Chelsea Michigan. Cost: FREE!

Time: tour begins at 12 noon and will last 1-1.5 hours

Location: 201 W North St, Chelsea, MI 48118

Drive time: approx 1 hour, carpools will be arranged

Info about Jiffy: Chelsea Milling Company is operated by a family whose roots in the flour milling business date back to the early 1800's. E-mail iie@wayne.edu to attend this tour.

4/3/2005 Sunday

1st Annual Student and Alumni Networking Reception for the Department of Industrial and Manufacturing Engineering at Wayne State University 6:00 PM –8:30 PM in

The Senior Detroit Chapter President, Bijay Nayak, reported, "I am pleased to inform you that Oakland University IIE Student Chapter is officially approved and is now an additional Student chapter under IIE Greater Detroit Chapter."

A recent letter from the President of the newly formed IIE Student Chapter at Oakland University:

"Thanks for the email. I am enclosing herewith the Faculty evaluation form from my side. Also, I would like to give you quick update on our chapter development so far.

1) There has been tremendous response from students after welcome week event and currently we have 18 student members in our chapter and we are hoping to have much more in future.

2) We have been conducting members meeting twice every month. The meeting so far has been towards knowing each other in the group; collecting ideas, questions, concerns from all members and forming our chapter standing committee. We have been experiencing lot of questions and curiosity amongst students in these meetings regarding formation of new IE dept and IIE chapter at Oakland University.

So that is it from us so far. We will keep you updated with the same. Thanks, Neha Pathan."

Chapter Activity Report

by Jayant Trewn



ADVERTISE IN THE GREATER DETROIT NEWSLETTER

Advertising Rates

The IIE Greater Detroit Chapter's mission is to promote the advancement of Industrial Engineering by providing professional development information and resources to our customers. The IIE Chapter 47 newsletter is published quarterly to provide our members from academia, manufacturing and service industries, and all levels of management. We invite you to become an advertiser in the Greater Detroit Institute of Industrial Engineers newsletter. Advertising on our website is also available.

Size Advertisement for number of Issues: 1, 2, 3, 4
Full Page \$200 \$360 \$540 \$700
Half Page 150 285 405 525
Quarter Page 100 190 270 350
Eighth Page 50 95 135 175

Advertising Policy

Publication of any article or advertisement in the newsletter should not be deemed as an endorsement of the opinions expressed or products advertised. All submissions are reviewed by the Editor, who reserves the right to accept, edit or reject any and all advertisement offers without recourse. *In consideration of the value added to the membership, at the discretion of the Board, advertising fees may be waived for certain nonprofit organizations.*

For more information or to place an ad, please contact: Greg Andrysiak at (734) 855-2590, greg.andrysiak@trw.com

1. Chapter Plans & Operation

The GDC Board held meetings on 1.1/8/05, 2/12/05 and 3/12/2005.

2. Chapter Programs

- **January 2005:** Wayne State University hosted the Local Student Technical Paper Competition on Thursday, January 27, 2005. The winner of the competition was David Cottrill who won a \$ 100 prize and the support of the Greater Detroit Chapter to present his paper at the IIE Regional Student Chapter Conference.
- **February 2005:** Joint membership meeting with SAVE-GMC was held on Tuesday February 15, 2005. Drew M. Algase, a Six-Sigma and Lean Systems Master Black Belt spoke on improving value in R&D.
- **February 2005:** GDC-IIE attended the ESD 34th Annual Gold Award Banquet on Wednesday, February 23, 2005. GDC-IIE was awarded the partner of the year award for the third consecutive year. Tej Jhamb received the IIE-GDC Distinguished Service Award and Gary Altman, Past President of the WSU Student Chapter was awarded the 2005 Irv Otis Scholarship of \$ 500.
- **March 2005:** Joint membership meeting with Oakland-Macomb Chapter of SME was held on Wednesday March 9, 2005. Dr. Baron spoke on emerging technologies.

3. Student Outreach

- Vito Wasniewski represented IIE-GDC in Regional Conference at Kalamazoo, Michigan, February 2005.
- Wayne State University & University of Michigan Dearborn Student Chapter Members attended Regional Conference at Kalamazoo, Michigan, February 2005.
- Wayne State University Student Chapter received Bronze Award from IIE HQ. Wayne State University Bronze Award was published in Industrial Engineering Magazine.
- Oakland University has been awarded status as a student chapter of IIE. A number of GDC-IIE board members supported their efforts to apply for the charter of a student chapter.

4. Member/Chapter/Institute Support

- IIE-GDC Board Officers attended National Engineers Week at ESD in March 2005.
- Tej Jhamb attended ESD Networking Breakfast Meeting on 1/20/05.

5. Score : Score as of 3/25/05 = 46, Max Score = 100.

If you have any news items related to member promotions, activities, awards, publications, or projects, training or workshops conducted, please forward it to Dr. Jayant Trewn, VP Development at Phone : 248-423-2419, Email: jtrewn@beaumont-hospitals.com.

Membership Report

From 1/2/05 to 3/3/05, TOTAL MEMBERS = 252

NEW MEMBERS

Ferszt, Brad David	Wilson, Brian Payton
Free, Ronald A.	Lote, Ravindra R.
Taddese, Binyam F.	Yu, Qian
Stevanoski, Marko	Gosche, Emily M.
Cummings, Richard R.	Kulkarni, Abhijit M.

TRANSFERS INTO THIS CHAPTER

Steffe, Eric J

Membership Activities

By Virginia R. Lingham

Wayne State Student Makes Trek to Japan With Help From IIE – Greater Detroit!



This past October I was able to take the trip of my LIFE (so far) – a trip to Nagoya, Japan for the 2004 ITS World Congress. First of all, let me introduce myself; I am a senior at Wayne State University studying Industrial Engineering. I've been a member of IIE for two years and, since December, am the IIE-WSU President. I plan to remain a member of IIE for life because it is so beneficial, rewarding, and most of all fun!

I choose to study Industrial Engineering both because I like that it takes a macroscopic look at systems and also includes human factors. More specifically I am very interested in transportation systems and how to make them most efficient and most effective in moving goods and people. Since 1999 I have been following the topic of Intelligent Transportation Systems (ITS) and to me it is an important key to improving today's transportation systems. ITS uses a variety of methods to collect information to use as tools for supply chain management, logistics, process management, system optimization, and automation – things IEs are generally very interested in. The outcome of successfully using these tools is transportation cost and congestion reduction and higher levels of safety. These solutions affect both our business and private lives.

Anyway, so that is why going to Japan for this World Congress was a priority to me. I knew they did things very differently than we do here in the US, with so little space and so many people and I had to see firsthand how the technology helped make everything work .

I absorbed so much at the Congress. An array of intercontinental presenters had diverse perspectives, specialties, and methods of research. The exposition displayed all the latest and greatest advances in everything from tracking devices to simulation algorithms to pedestrian crosswalks. I was able to network with members of academia, ministries of transport, and private consultants.

Tack on the time change, and it was all quite exhausting. I did manage to have a bit of fun though; I visited the beautiful Nagoya Castle, shopped in the 10 story tall, gigantic electronics stores, and explored the trains and subways.



The entire experience was extremely beneficial. Now, I have a much better understanding of upcoming technology that will be and is being used as tools to improve safety and efficiency in all aspects of transportation. It is a stark comparison to what we are using and researching in this region, but inspires me to think of the future and what can be done.

Thank you for your support Institute of Industrial Engineers, Chapter 47 – Greater Detroit.

Special Thanks to Vito and Jay,

Virginia R. Lingham



Membership Activities (Cont.)

Engineer's Week Celebration



IIE-GDC Board Officers attended the ESD Banquet. The Engineering Society of Detroit (ESD) celebrates National Engineers Week at the annual *Gold Award Banquet*, honoring the engineering profession. This gala evening provides a forum for the *Affiliate Council of the Engineering Society of Detroit* and the Affiliate Societies to honor and congratulate members who have distinguished themselves through outstanding achievement and service within their respective societies.

Irv Otis Scholarship Award

Gary Altman received a \$500 Irv Otis Scholarship from the Institute of Industrial Engineers - Greater Detroit Chapter, during the 34th Annual Gold Award Banquet, February 23, 2005.

Gary offered thanks, "Please pass along my thanks to the entire Board of Directors for the Irv Otis Award. I have had a great time working with IIE at WSU and look forward to working with the senior chapter after graduation."



Gary Altman is a candidate of the new Production Management Leadership Program at Wayne State University and will graduate this May with his BSIE including an emphasis in manufacturing and production management. Gary has been an active member of the student chapter IIE by serving as president over the past year and previously as vice president. Upon graduating Gary will begin working as an engineer in the Professional Development Program at Visteon Corporation where he worked as a co-op student since January of 2003.

Distinguished Service Award

The Institute of Industrial Engineers-Greater Detroit Chapter presents **Tej B. Jhamb** with the "Distinguished Service Award" for his excellent contributions to the local chapter during the 34th Annual Gold Award Banquet on February 23, 2005.

Tej has held various positions since 1974, including President. He currently is Executive Vice-President of the chapter and represents the chapter as Vice-President on ESD Affiliate Council. He is currently working as a consultant with TJ Associates, after retiring with 40 years of service from Tier #1 Automotive Suppliers. He is currently consulting in manufacturing locally and overseas. He has a Masters Degree in Industrial Engineering and Operations Research from Wayne State and a Bachelors Degree in Mechanical Engineering from Chandigarh India. He is also a "Certified Manufacturing Engineer".



Partner of the Year Award

Institute of Industrial Engineers

Tej B. Jhamb and **Dr. Jayant Trewn** accepted the "Partner of the Year Award" on behalf of the Institute of Industrial Engineers during the 34th Annual Gold Award Banquet, February 23, 2005. There are 56 Affiliate Societies of ESD that compete for this award.

The Affiliate Council of the ESD has established an awards program to honor member societies that support its efforts. Each organization is encouraged to participate. There has been a ratings system instituted to recognize active involvement in Council programs. Only one chapter each year is selected as "Partner of the Year" out of fifty-six chapters.

The Affiliate Society Partner of the year award recognizes and honors participation and achievement in the Affiliate Council. The program is to encourage member organizations to work together in their support of the mission of the Affiliate Council.



Jayant (left) and Tej (right) accept award for the Detroit Chapter.

Tuesday–Thursday, April 19-21

IIE

Six Sigma Green Belt Seminar

The opportunity to master Six Sigma and Lean without traveling out of your region!

Six Sigma Green Belt (3 days)

Master the use of the Six Sigma approach to quantify the critical quality issues in your company. Once the issues have been quantified, statistics can be applied to provide probabilities of success and failure. Learn how to integrate principles of business, statistics, and engineering to achieve tangible results.

Six Sigma methods increase productivity and enhance quality. This seminar will give you a thorough understanding of Six Sigma and its focus on eliminating defects through fundamental process knowledge. As a Six Sigma Green Belt, you will be equipped to support and champion Six Sigma implementation in your organization. Come away from this seminar with the knowledge you need to:

- Identify and implement improved strategic and operational processes
- Improve quality, productivity, and responsiveness in your operation
- Discover ways to better serve your customers

Six Sigma offers a wealth of tangible benefits that, when skillfully applied, can:

Reduce cost by 50 percent or more through a self-funded approach to improvement • Reduce the waste chain • Afford a better understanding of customer requirements • Improve delivery and quality performance movements rapidly using internal resources

Benefits of Attending After completing this course, participants should understand:

Descriptive statistics

- Process flow charting
- Basic analysis tools
- Variability measurements
- Control charts
- Process capability
- Cause and effect analysis



Green Belt Certificate

How will you know that you've mastered these concepts? Upon completion of this training, participants must pass a three-hour written examination before the Green Belt is granted.

Registration Fee:

IIE Member: \$1195 | Non-member: \$1345

Course Details 3 days | 2.4 CEUs

2 ways to register!

Visit: www.iieseminars.org or call: 1-800-494-0460

For additional information, contact Witold Wasniewski at 248-524-7319 or vw6529@sbc.com.

Career Development



Vector SCM (www.vectorscm.com)

Immediate openings in the engineering department, both entry level and senior positions available. Vector Engineering focuses on developing logistics and supply chain cost reduction strategies and superior design solutions to the automotive industry. Our team specializes in a number of different areas including: Logistics Data Capture & Analysis Logistics Process Review (Process Mapping & Flow Analysis) Engineering Modeling, Analysis & Value Proposition, Logistics Network Redesign and Evaluation, Mode Optimization and Route Design and Supply Chain Design (Total Cost Sourcing and Supply Chain Improvement) to name a few.

Put your Engineering skills to work on the largest, most complex supply chain in the world!! If you are interested in learning more about working at Vector in Novi, Michigan, please feel free to send resumes or questions to king.susan@vectorscm.com or call 248.675.7033.

If any Chapter member would like to post a job opening or situation wanted, please contact: Greg Andrysiak at (248) 442-8607, greg.andrysiak@trw.com. Please see our website at iiedetroit.org for the latest job openings or situations wanted.

+++ Looking for top-notch employees? +++

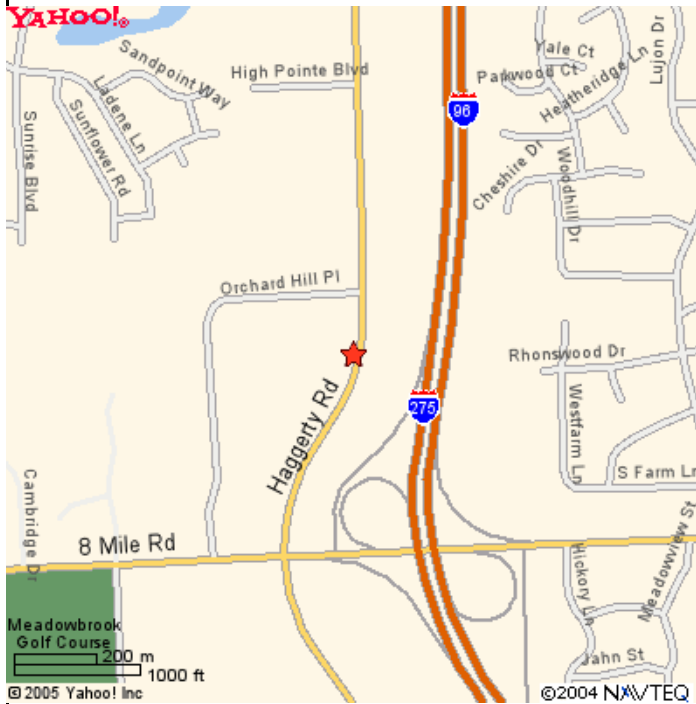
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