

**Institute of Industrial  
Engineers  
Chapter 47  
NEWSLETTER  
Detroit, 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 45, No. 2**

**April and May, 2001**

Visit us on the web <http://www.iiedetroit.org>

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**Thursday, April 19th  
Material Engineering Logistics  
Using Static & Dynamic Simulation**

**-Are you preparing for your next production or facility change?  
-How will you analyze the material engineering aspects of your production system?  
-See how static and dynamic simulation can create a successful outcome.**

**Speakers:** R. Stephen Milley and Jeffrey Liss

**Date:** Thursday April 19

**Time:** 5:30 pm registration begins  
6:00 pm presentation begins

**Location:** Farmington Branch Library (not the main Farmington Hills Library),  
23500 Liberty Street, Farmington, MI 48335.

See maps on page 4 and 8.

**RSVP:** by **April 16th**, to our IIE VOICEMAIL (313) 438-0205.

**Tuesday, May 22nd  
Quality and Effective Problem Solving  
for the New Millennium**

**- What is "Red X Strategies"?"  
- Where should the problem solving process begin?  
- Where is the best leverage in determining reasons for process variation?**

**Speaker:** Christopher P. LaMothe,  
Manager, Warranty Improvement, General Motors

**Date:** Tuesday, May 22, 2001

**Time:** Registration at 5:30, Speaker from 6 p.m. to 7 p.m.

**Location:** General Motors, Truck Product Center - East,  
1999 Centerpoint Parkway, Pontiac, Michigan.

See maps on page 5 and 8.

**RSVP:** by **May 18th**, to our IIE VOICEMAIL (313) 438-0205.

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## Chapter President's Message

by Vito Wasniewski

The chapter is well along in the 2001 year, and we hope to continue to build on our initial momentum. We have had two chapter meetings at the time of this writing, and our last meeting (a plant tour) resulted in not only significant attendance, but some great feedback from our the attendees.



Some of the results of the survey shows us that our future meetings should focus on:

- ❑ Lean manufacturing topics
- ❑ Plant Tours
- ❑ Six Sigma

I am pleased that our meetings for the rest of the year will cover all of these identified topics. Six Sigma will be covered in June, another plant tour and lean manufacturing in September.

And of course its springtime, and a time of new beginnings, and the opportunity to improve ourselves. The **IIE Annual Conference** and the **Engineering Research Conference** will be held on May 20-23 at the Hotel Inter-Continental in Dallas Texas. This is the premier event for industrial engineers to interact and receive training on methods, workplaces, and career development. The conference will include events such as:

- ❑ A career fair
- ❑ Sessions on Lean Manufacturing
- ❑ Sessions on Quality
- ❑ Sessions on Simulation
- ❑ and others sessions and topics too . . . .

Combining the two events, they will include over 175 sessions, and over 350 presenters, keynote speakers, company tours, and other non-IE events for spouses and significant others. Please notify me via email on the website if you will be attending, and perhaps we can organize a Detroit Chapter gathering down in Texas.

Lastly, I want to let everyone know of Professor Adnan Aswad's retirement from the University of Michigan - Dearborn. On April 6, 2001 Rich Anderson and I attended a retirement party for Dr. Aswad. Many graduates from the UM-D know of his significant accomplishments in developing Industrial Engineering at the University and in the Detroit area; and many of these same graduates are members of our chapter – and if you have a chance, please wish him well.

Please contact me if you have any suggestions or input on the chapter website [www.iiedetroit.org](http://www.iiedetroit.org), via email on the website directly to me.

## Up Coming Meetings

### **June 19, Six Sigma & Plant Tour, Budd Company, Plastics Division**

No cameras, limited attendance to 30. Located at 1850 Research Drive, Troy (east of Stephenson Hwy and north of Maple Road. The presenter is Kirk Fink, with 20 years experience in both consumer goods and automotive, currently the Division Manager of Continuous Improvement..

### **July 22, Sunday Golf Outing, Links of Novi, \$95/person.**

Includes green fee and cart, box lunch at the turn and a New York strip steak dinner. Everyone is invited. You can sign up in teams or individually. Individual players will be assigned to a 4-person scramble format (best ball). Tee time starts at 12:30 pm. Prizes awarded after golf. Please send your check made payable to IIE Detroit Chapter. Mail to Doug Rogers, 45245 Sycamore Court, Utica, MI 48317. Any questions, please call Jayant Trewn, 248-526-1800, x-279.

### **August—The Harbour Report, Jim Harbour, at the Gazebo.**

### **September 11, Lean Mfg & Budd Stamping Plant Tour.**

No cameras, limited attendance to 30. 12141 Charlevoix Avenue, Detroit (West of Conner and South of Mack Avenue). Next to DC Jeep Assembly Plant. Introduction 11:30 am, followed by plant tour and winding up with a Lean Manufacturing presentation.

## Membership Activities

**Richard Krasnow** was presented with the Distinguished Service Award at the Engineering Society of Detroit (ESD) Annual Gold Award Banquet during Engineer's Week in late February.



Richard Krasnow (left) receives the Distinguished Service Award from Detroit Chapter President, Vito Wasniewski.

**Andrea Lechowicz** is honored with the \$500 Irv Otis Scholarship from the Detroit Chapter of the Institute of Industrial Engineers (IIE). Andrea also received her scholarship during Engineer's Week at the Engineering Society of Detroit's (ESD) Annual Gold Award Banquet in late February.



*Pictured from left to right: Swatantra Kachhal, Student Advisor and Professor at U of M - Dearborn, Andrea Lechowicz and Detroit Chapter IIE President, Vito Wasniewski.*

The scholarship is based on grade point average, IIE student chapter participation, senior IIE chapter participation and other school service activities. Andrea is a senior in Industrial Engineering at the University of Michigan – Dearborn. She is a native of Livonia and graduated from Stevenson High School in 1998.

Andrea plans on graduating in May of 2001. She is a participant in the University's concurrent undergraduate/graduate degree program, so she will be receiving both a Bachelors degree and a Masters degree in Industrial Engineering. She is currently active in her IIE student chapter and has participated in several activities to recruit high school students and undecided basic Engineering students to the Industrial Engineering profession.

When asked why she chose the Industrial Engineering profession, Andrea replied,

“I always had a great interest in science and math, but also in business. I felt that I.E. was the only Engineering field that overlaps both these interests. I believe it is the most people-oriented field in engineering. In addition, I find industrial engineering attractive because of the versatility it offers in career opportunities.”

In addition to IIE, Andrea is also a member of the Society of Women Engineers and Alpha Pi Mu, the Industrial Engineering honor society. Other scholarships she has received include the American Polish Engineering (APEA) Scholarship, the University of Michigan-Dearborn Alumni Merit Scholarship and the Chrysler Minority and Women Scholarship.

Last summer Andrea was employed as a summer intern to the Ford Motor Company and she plans to return to Ford as an intern this summer. During her internship, Andrea did diagnostic service planning. In her future career, Andrea wants to be involved in statistical analysis or project planning.

Outside of school activities, Andrea enjoys swimming, cycling, playing the piano and investing in the stock market.

**Dr. Adnan Aswad** was congratulated on his retirement. The retirement reception was held at The Henry Ford Estate on Friday, April 6, 2001. Dr. Adnan Aswad, retired Professor of Industrial and Manufacturing Systems Engineering, from the University of Michigan-Dearborn, is a past President of the Detroit Chapter IIE.

Finally if you have any news items of note, things such as member promotions, activities, awards, publications, or projects of interest to the general membership, please contact either Ron Brzuch at 313-337-8385, [rbrzuch@ford.com](mailto:rbrzuch@ford.com), or Bijay Nayak at 248-299-6400, [bnayak@msn.com](mailto:bnayak@msn.com).

# Thursday, April 19th

## Material Engineering Logistics

### Using Static & Dynamic Simulation

This informative presentation displays the use of Static and Dynamic Simulation to assist in planning and evaluation of material engineering aspects and material handling operations in a manufacturing environment.

The presentation is organized in five sections:

1. An overview of material engineering logistics concepts
2. Application of static simulation methods
3. Application of dynamic simulation methods
4. Discussion of static and dynamic simulation as complimentary engineering analysis tools
5. Brief overviews of several unique applications of simulation in material engineering tasks

Planning for material handling and logistics operations in the manufacturing environment should go hand-in-hand with the assembly process planning and facility planning. The three must work together to create a successful outcome.

Static simulation, a quick and fairly simple modeling approach, supports these planning efforts. It can help with a variety of engineering problems, and gives quantitative results for decision making. Dynamic simulation provides a detailed tool that better reflects the variability inherent in any real world system. This allows a more thorough analysis and comparison of material engineering alternatives.

In your next production or facility change, don't forget about the analysis of the material engineering aspects of your complete production system.

Date: Thursday April 19

Time: 5:30 pm registration begins

6:00 pm presentation begins

Location: Farmington Branch Library (not the main



Farmington Hills Library), 23500 Liberty Street, Farmington, MI 48335. 248-474-7770 [www.farmlib.org](http://www.farmlib.org)

[www.iiedetroit.org](http://www.iiedetroit.org) has more information on this topic.

Your speakers for the night from Design Systems Inc.:  
R. Stephen Milley and Jeffrey Liss

R. Stephen Milley  
Technical Manager  
Manufacturing Engineering Group  
Design Systems Inc.  
Farmington Hills, Michigan

Stephen Milley is Technical Manager in the Manufacturing Engineering Group at Design Systems Inc (DSI), and is responsible for coordinating and guiding his Group's technical approaches to Manufacturing Engineering tasks. Stephen has 10 years of Industrial, Manufacturing, and Material Engineering experience at a variety of automotive and non-automotive facilities. During the past five years, he has focused much attention towards Material Engineering efforts regarding indirect labor, lean manufacturing concepts, and simulation.

Stephen received his Bachelor of Science degree in Industrial and Systems Engineering from Virginia Tech and is currently pursuing his Masters of Science degree in Engineering Management at Wayne State University. Stephen worked at IBM Corporation in Research Triangle Park, North Carolina, and BDM Federal Inc. in McLean, Virginia, prior to taking the current position at Design Systems Inc. Stephen is an active member in the Detroit Chapter of the Institute of Industrial Engineers, as well as a member of the Society of Manufacturing Engineers.

Jeffrey Liss  
Project Manager  
Simulation Engineering Group  
Design Systems Inc.  
Farmington Hills, Michigan

Jeffrey Liss is a project manager in the Simulation Engineering Group at Design Systems Inc (DSI), and is responsible for the successful completion of numerous engineering and simulation studies. Jeffrey has 16 years manufacturing and simulation consulting experience in a variety of industries such as automobiles, cabinet manufacturing, food processing and bottle manufacturing. Typical project objectives include throughput analysis, product scheduling, downtime analysis, material flow engineering and controls emulation.

Jeffrey received his Bachelor of Science degree in Industrial and Systems Engineering from the University of Michigan.

# Tuesday, May 22nd Quality and Effective Problem Solving for the New Millennium



**Speaker: Christopher LaMothe** holds a B.S. in Mechanical Engineering from the University of Maryland and a joint MBA and MS in Mechanical Engineering from the University of Illinois. His professional certifications include: Certified Quality Manager through the American Society of Quality and Master Statistical Engineer through Shainin, LLC

Date: Tuesday, May 22, 2001  
Time: Registration at 5:30, Speaker from 6 p.m. to 7 p.m.  
Place: General Motors, Truck Product Center - East, 1999 Centerpoint Parkway, Pontiac, Michigan  
\*\*\* Badge access is required to get in the door. It's important to all come to the same door. The door is indicated in the map below.

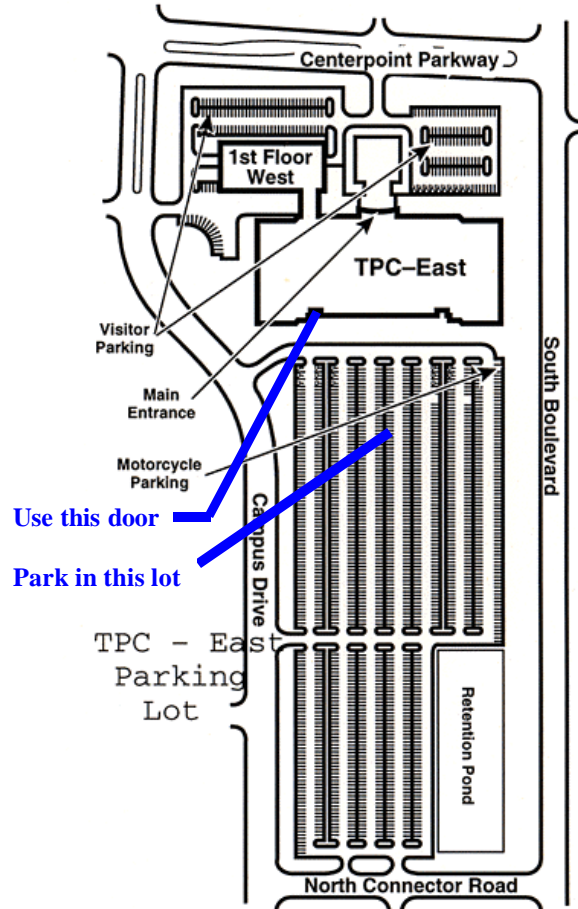
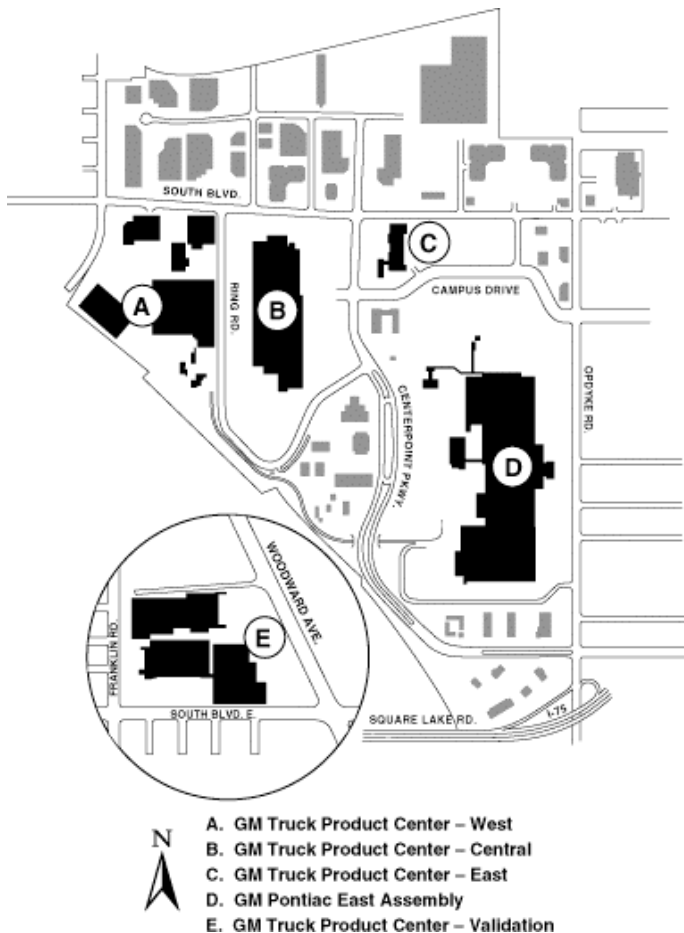
One of the most effective methods for solving problems in the new millennium is Red X Strategies. Red X Strategies is a technology that was pioneered by Dorian Shainin nearly 60 years ago. It involves statistics, engineering sciences, logic, creativity, and persistence to bring together a powerful system for solving quality problems. Red X Strategies are not another set of Design of Experiment techniques but a process by which the root cause can successfully be found and eliminated or controlled. The guiding principles of Red X Strategies are:

- (1.) Quality is customer enthusiasm.
- (2.) There is always a Red X.
- (3.) Talk to the parts.

## Directions from Detroit Metropolitan Airport

Take East I-94 to Telegraph Rd. Go north on Telegraph Rd. for approximately 20 miles to Square Lake Rd. Turn right (east). After Woodward Ave., Square Lake Rd. merges briefly with I-75. Stay to the right to exit at Opdyke Rd. The ramp will take you to Square Lake Rd. (again). Turn right (west), thus taking Square Lake Rd. west to Opdyke. Turn right (north) at Opdyke Rd. Turn left at Centerpoint Parkway and follow to just before South Blvd.

TPC Central is on the left-hand side; TPC East is on the right-hand side directly across from TPC Central. For TPC Validation, follow Centerpoint Parkway to South Blvd. Turn left (west), taking South Blvd. past Woodward Ave. TPC Validation is on the right-hand side of South Blvd.; the visitor parking lot is the second gate on the right.



## Chapter Activity Report

by Dr. Bijay Nayak

The IIE Detroit Chapter began new year with new plans and great enthusiasm. The chapter held 3 Board of Directors meetings in last 3 months. The Program Committee organized the following interesting programs in past months:

Language of Leadership Workshop was held on **February 28, 2001**. All attendees learned the “common language” and problem solving in the interactive presentation.

Lean Manufacturing and Plant Tour of GM Detroit / Hamtramck Assembly Center on **March 29, 2001** was attended by the maximum number allowed. It consisted of a diverse group of 17 IIE members and 13 non members. The event began with safety video, a presentation on lean manufacturing by Mike Brewer, Director of Competitive Manufacturing at GM, and a plant tour. Questions were asked by attendees who are trying to gain the same success in their facility that GM is now experiencing. The feedback from attendees was very encouraging.

The Program Committee is actively pursuing to hold joint chapter meetings with several other professional institutions in Detroit area, such as Society of American Value Engineers (SAVE), Greater Michigan Chapter and Society of Manufacturing Engineers (SME).

From IIE Headquarters in Atlanta: “Congratulations! The Detroit Chapter has won a top Platinum Award in the 2000 Chapter Newsletter Competition. A high quality newsletter is one of the most important benefits a chapter can provide to its members—you and all those who contribute to the newsletter's success should be congratulated for an excellent job. Judge's comments: Nice newsletter format.”



## Membership Report

2/03/2001- 3/31/2001

### NEW MEMBERS

Mr. Bekir A. Acar  
Mr. Andrew M. Ashley  
Mr. Ryan D. Ferris  
Mr. Bruce G. Gebhardt  
Dr. James W. Knight  
Mr. Greg Vreeland  
Ms. Sarah L. Diener  
Mr. Jeffrey J. Liss  
Mr. Brian M. Sage

### TRANSFERS INTO THIS CHAPTER

Ms. Brenda J. Huddle FROM: Ohio University (OH)  
Ms. Iliette M. Frontera FROM: Western Puerto Rico  
Mr. Brian Lewis FROM: Univ of Calif-Berkeley

## Career Development

### Situation wanted:

Results oriented Industrial/Manufacturing Engineering professional with advanced credentials seeking a Consulting assignment and/or a Project Teaming arrangement. Over 17 years of progressive experience in material and process flow improvement, plant layout optimization, work design and simplification, line balancing, Lean and JIT manufacturing, and project management. Contact: PES (734) 425-3904.

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



THE MASTER'S DEGREE IN  
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Designed for Working Professionals

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- Recent graduates who are preparing for a career in the software profession and require deeper understanding.

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**(313) 593-5361 FAX: (313) 593-3692**

**Email: [lmbeach@umich.edu](mailto:lmbeach@umich.edu)**

University of Michigan - Dearborn  
4901 Evergreen Road  
Dearborn, MI 48128-1491

ADVERTISEMENT

**IIE Detroit Chapter 47 Members Can  
Save Money With This Membership  
Benefit**

Citizens Insurance Company, headquartered in Howell, Michigan, is providing special group discounts for auto and homeowners insurance to IIE members through a special affiliation with ESD The Engineering Society of Detroit. Since the inception of this member benefit program in 1971, over 18,000 policies have been written, which clearly shows the success of the program!

**Here is a summary of some of the special discounts that are available:**

**IIE Group Discounts** Auto discount ....**10%**  
Homeowner's Discount ....**20%**

**Multi-Policy Discount** ....take an additional **10%** discount off **both** policies

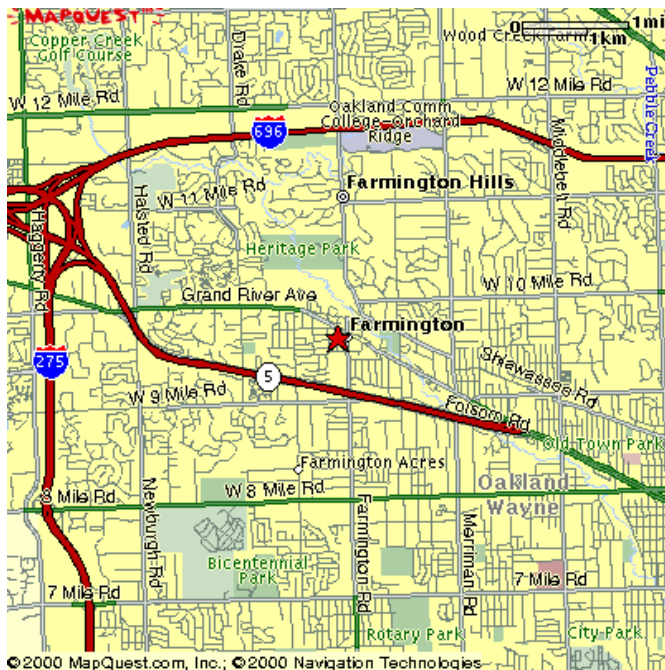
**New Home Discount** ..... save up to **30%**!

**If certain qualifications are met** .....as much as an additional **25%** may be available!

We can also provide quotes for long term care insurance and for your classic antique cars, trucks, boats, and motorcycles.

This program is administered by Hartland Insurance Group of Auburn Hills, Michigan. Call **Hartland Insurance Group** at **1-800-682-6881**, or call you local Citizens agent for a free, no-obligations quote. When calling, be sure to mention that you are a member of IIE so that the special discounts will be reflected in your quotes.

**Thursday, April 19th**  
**Material Engineering Logistics**  
**Using Static & Dynamic Simulation**

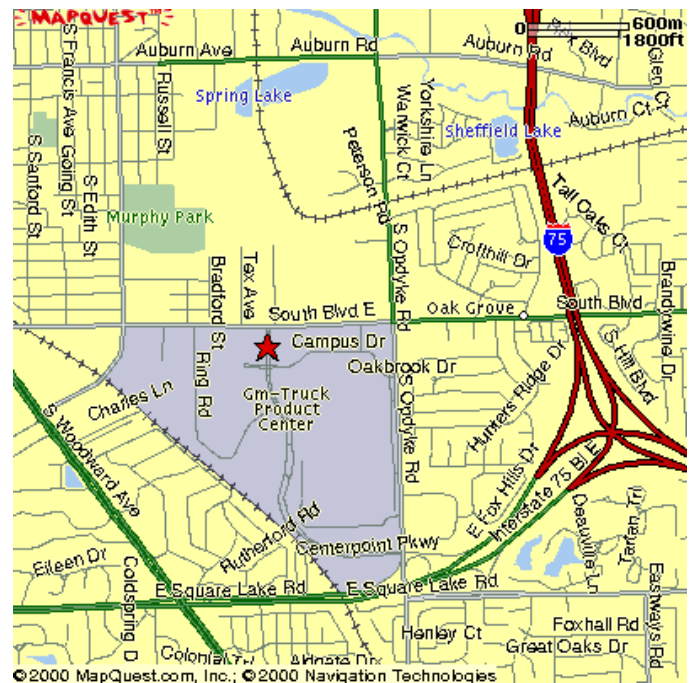


**Farmington Branch Library, 23500 Liberty Street,  
Farmington, MI 48335.**

Institute of Industrial Engineers #47  
c/o Ron Brzuch  
7247 Almaden Court  
Canton, MI 48187

**DATED MATERIAL**

**Tuesday, May 22nd**  
**Quality & Effective Problem Solving**  
**for the New Millennium**



**General Motors, Truck Product Center—East  
1999 Centerpoint Parkway, Pontiac, MI**