

The Pittsburgh Sampler

A Newsletter Publication of the Pittsburgh Chapter of the
Institute of Industrial Engineers

FEBRUARY 2005

www.ie.pitt.edu/IIE/



IN THIS ISSUE...

February Meeting	1
February 2005 Program	1
President's Message	2
Chapter Activity Report	3
Recap of January Meeting	4
Directions: February Meeting	4
IIE Pittsburgh Job Bank	5
Membership Report	6
National Engineer's Week	6
Treasurer's Report	7
National IIE Elections	7
Chapter Directors and Officers	8
2005 Schedule of Events	8

IIE FEBRUARY MEETING

- Topic:** Proven Techniques for Analyzing, Improving and Implementing Best Methods
- Date:** Thursday, February 24, 2005
- Speaker:** Jeff Arnold
Consulting Manager, H. B. Maynard and Company, Inc.
President, IIE Pittsburgh Chapter
- Time:** Registration and Light Dinner 6:00 PM
Speaker at 6:30 PM
- Location:** H. B. Maynard and Company, Inc.
8 Parkway Center, 4th Floor
Pittsburgh, PA 15220
Directions can be found on page 4 of this newsletter.
- Cost:** \$20 for IIE Members
\$25 for non-members
\$5 for students
- RSVP:** By Monday, February 21 to Amy McHenry
amchenry@hbmaynard.com or 412-921-2400 ext. 231
As always, your reservation is your commitment.

FEBRUARY 2005 PROGRAM

This program will focus on both the principles of Best Methods and the hands-on application of those principles to various scenarios. We will begin with learning the *techniques* by which to evaluate any type of work method for improvement, whether it's making a cake in a bakery, assembling a sub-component in an automobile factory or loading cartons onto a truck in a distribution center. We will then shift from technique to *application*.

Participants will use the newly learned techniques and apply them to various workstations and workers in the training room. We will develop a list of method improvement ideas. Next, we will discuss the procedure for *comparing various*

methods and apply that to our method ideas. Finally, we will review the steps for successful '*Best Methods Implementation*.' Participants will leave this program with:

- knowledge of the principles of Best Methods (including a job aid and an active learning technique to remember the principles)
- experience at applying the principles to real work scenarios and developing method improvement ideas
- an understanding of how to compare various methods
- a proven plan for implementing new methods

We hope to see you at Maynard on February 24th!



INSTITUTE OF INDUSTRIAL
ENGINEERS

Pittsburgh Chapter
Area 1, District 5
Number 3

Eight Parkway Center
Pittsburgh, PA 15220

Pittsburgh Chapter website:
www.ie.pitt.edu/IIE

National IIE website:
www.iienet.org

PRESIDENT'S MESSAGE

Greetings! Welcome to the first *Pittsburgh Sampler* of 2005! First, as President of the Pittsburgh Chapter, I would like to re-introduce myself for those of you who may not know me. My name is Jeff Arnold, I have been a member of IIE for nearly 11 years, and I work as a Consulting Manager for H. B. Maynard and Company, Inc. I served as President of the Pittsburgh Chapter last year, and will serve in that role again this year through December 2005. For those of you I don't know, I look forward to meeting you at an upcoming program. Here's a little background on me that perhaps you can relate to...

Becoming Involved in IIE Pittsburgh

Early in my membership I took a more passive role with IIE – attending a few programs when I could fit them in with my consulting travel schedule. A few years ago I decided to get more involved in our chapter on the Membership Committee. Following that I served as the Membership Chair, then as Vice President, and then President last year.

Back when I first decided to actively get involved in our chapter, I was traveling extensively – every week. Since I was traveling full-time, getting more involved with IIE seemed like it would be almost impossible. But our Membership Committee met once per month via a conference call during the lunch period and I found it wasn't impossible to get involved in this fantastic organization. In fact, it was easy and fun! And, it was just what I needed to break up my daily routines and keep in touch with others in the IE world. As I got more involved in our chapter, I learned what a wonderful group of talented, dedicated people we had on the leadership team, within the committees, and at the programs. And, I learned how educational, fun and rewarding participation in our chapter could be. It took me six or seven years into my career to get there, and looking back I wish I would have gotten involved sooner. But the point is this: it's never too late to get involved in our chapter. In this New Year I encourage you to think about how you are utilizing the benefits of your IIE membership. Have you utilized it to help yourself, your peers or students in our profession? Have you thought about getting involved in a leadership role to both practice your leadership skills and give something back to your profession? Have you thought about attending a program but haven't made the time? Maybe now is the time to get involved – I think

you will find it easy and very rewarding.

I encourage each and every one of you to take part in our chapter whether by attending programs, volunteering for helping with a committee or serving on a committee. If you're not sure what it's all about, come to a program and find out. You may even decide you like it enough to get involved in a leadership role within our chapter. If you haven't been to a program in a while, come to the next one on February 24 (details on page 1 of this newsletter). I hope when you come that I can share with you what I have learned about IIE and about our chapter. I guarantee you will meet some new people, learn some things and have some fun!

Succession Planning

In our last newsletter I gave you an update on succession planning for the IIE Pittsburgh Chapter Board of Directors, Leadership Team, and Committee Members. As a reminder of 'who's who' in your new leadership, the last page of this newsletter contains a complete listing. I encourage you to look at each name and if you don't know the individual listed, come to the February program and meet them! Our Leadership Team worked hard last year to put some processes in place that I think will help you to see some improvements this year. For example, our Membership Committee now has a process to contact every new member and understand what they want to get out of their membership in our chapter. Our Programs Committee is looking at ways to build fun, educational programs, with a few new twists and surprises (I've even heard talk of a 'bring a friend for free night' and 'raffle off a free year of membership')! If you attended the January program focused on Semester at Sea at the University of Pittsburgh, you got a taste of some of the new, exciting program types we look forward to having this year.

I am very excited to have such a talented, dedicated Leadership Team and Board of Directors again this year. I think once you get to know them, you will feel the same. So mark your calendars for February 24 and join us at the next program!

Jeff Arnold

IIE Pittsburgh Chapter President

HAVE YOU LOOKED AROUND YOUR OFFICE LATELY?

We are asking active IIE members to 'look inside' their own organizations for others working in an I.E. capacity who might benefit from membership in our chapter. If you know of someone you think might be interested, please encourage them to come to our next program.

If you know other industrial engineers or people working in an industrial engineering capacity, encourage them to come to one of our upcoming meetings and join IIE. Membership forms are available at IIE's home page <http://www.iienet.org> or you can contact Errol Restelli at (412) 921-2400 x232.

Note: If your contact information changes (i.e. address, company, phone number, e-mail address), please contact IIE National. Their phone number is (770) 449-0460 or 1-800-494-0460. Once you contact IIE National, your address change should be reflected on our next mailing list, which is received from IIE National each month.

You belong to your professional society because your career is important to you.

You want to continue your education because lifelong learning and professional development are important to you.

You need an advanced degree from a program with a great reputation...then you need



The Industrial Engineering Masters Program at the University of Pittsburgh

- *Engineering Management*
- *Information Systems*
- *New Product Development and Manufacturing*
- *Operations Research*

Earn your advanced degree from a nationally ranked program that is **flexible** and led by highly-respected faculty members who will help you prepare to be a **leader** in your industry.

Evening courses. Personal attention. Apply Now!

To further inquire about our program, please call (412) 624-9830 or check out <http://www.engr.pitt.edu/industrial>

CHAPTER ACTIVITY REPORT

Written by Donna Degenhardt, IIE Pittsburgh Chapter VP

So what is the Chapter Activity Report (CAR)? The CAR is a measurement system for chapters to see improvement trends and to track their progress. It is also the basis for awards in the Chapter Recognition Program, providing visibility so that chapters' accomplishments can be recognized and rewarded. The CAR year runs from January 1 to December 31. Participating chapters must submit their CAR forms to IIE National in mid-February for evaluation. Our chapter will be submitting its 2004 CAR form in early February. We will keep you posted on our results.

In order to provide a better understanding of the CAR, I will highlight its various sections in the coming months. Each officer is responsible for specific chapter functions or activities. Each function or activity contributes to the health or improvement of the chapter. Here is an overview of the components of the CAR:

1. Chapter Plans and Operations – This section focuses on the planning and management of the chapter and is the primary function of the Board of Directors. Don Ziegler and Joe Kikta co-chair the Board of Directors.
2. Chapter Programs – This section attempts to measure how well a chapter is serving its local members' needs. The primary way we serve our members is through chapter programs. The Programs Committee, chaired by Amy

McHenry, strives to provide quality programs (as measured through evaluation forms) and to attract the maximum number of attendees. So, bring a friend to that next IIE program.

3. Membership Communications, Growth & Retention – This section focuses on how well the chapter communicates with and retains its members. The Membership Committee, chaired by Errol Restelli, is responsible for membership growth and retention. Jacki Szymanski, the Communications Chair, puts together the monthly newsletter. And, Jay Rajgopal is our Web Master.
4. Student Outreach Activities and Community Affairs – This section measures how well the chapter serves its surrounding communities. It also measures the chapter's efforts towards educating students about the IE profession. Bryan Norman is our Student Relations Chair, and Pat Kelly Lee is our Community Relations Chair.
5. Member/Chapter and Institute Service & Support – This section focuses on the chapter's support of its members in regards to leadership training, workshops, and seminars. Additionally, this measures our membership's support of IIE National. Members can support IIE National by attending the IIE National conference or publishing articles in Solutions.

Stay tuned.....next month, I will highlight the Chapter Plans and Operations section of the CAR.

RECAP OF THE JANUARY MEETING

The IIE Pittsburgh Chapter kicked off 2005 with a fantastic program held at the University of Pittsburgh. Dr. Bopaya Bidanda, Dr. Larry Shuman and four students presented their experience with the Semester at Sea program. While the presenters made it clear that the trip was totally life-changing from a personal perspective, they also made it clear that the principles of Industrial Engineering can be applied anywhere throughout the world.

The program began with a video of Semester at Sea including everything from accommodations to ports-of-call to onboard classrooms. We learned that this past year was the first year that IE was offered through the Semester at Sea program. Following the video, Dr. Bopaya and Dr. Shuman explained that a major IE project that took place onboard the ship was to consider improving the efficiency of the cafeteria. By using flow charting, cycle time analysis, spaghetti mapping, Pareto analysis and other techniques, the students found that there was quite a bit that could be improved with the layout and processes of the cafeteria. Scott Eshkenazi, a student at the University of Pittsburgh, explained the improvement ideas, used graphs, charts and pictures to show both findings and progress, and reported that the ideas have been implemented on recent voyages and will be implemented on future voyages.



Another experience available to the Semester at Sea participants was the opportunity to visit several facilities. Among the plant tours were Kennametal and Mitsubishi Electric. Dr. Bidanda made the comment, "If the engineers with Mitsubishi Electric are being paid 1/10th what our engineers are paid, we had better be providing 10 times the value!" Having the opportunity to see IE in action on foreign soil was another highlight of the voyage for both the professors and the students.

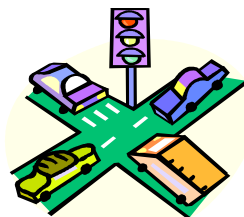
Blake Orlandi and Leeann Williams, both University of Pittsburgh students, concluded the program by providing an overview of the experience and adventure of traveling the world. They highlighted some of their favorite journeys and gave us a feel for what it's like to have a new adventure every day. They explained that the theme of the voyage was "Old World and New World," and showed pictures of ancient temples and gigantic metropolitan cities, all in the same country!

The entire program was tremendously motivating and anyone who has an interest in learning more about the Semester at Sea program should visit www.semesteratsea.com. The IIE Pittsburgh Chapter thanks Dr. Larry Shuman, Dr. Bopaya Bidanda, Erik Eshkenazi, Blake Orlandi, Heidi Smedley and Leeann Williams for a fantastic presentation.

DIRECTIONS: FEBRUARY 2005 MEETING

H. B. Maynard and Company, Inc.

Eight Parkway Center
Pittsburgh, PA 15220
Phone: 412.921.2400



From the South: 79N to 279N to Exit 4A, Greentree Road. Turn left onto Greentree Road. At third light turn right onto Parkway Center Drive. Take second left into the business complex. Maynard is located next to Parkway Center Mall.

From the North: 79S to Exit 59A (Pittsburgh). Do NOT take exit #72 for I-279. Stay on 79S until exit #59A (I-279). Take 279N to Exit 4A, Greentree Road. Turn left onto Greentree Road. At third light turn right onto Parkway Center Drive. Take second left into the business complex. Maynard is located next to Parkway Center Mall.

From Airport: Follow signs towards Pittsburgh (60S becomes 22-30 then 279N) Take Exit 4A, Greentree Road. Turn left onto Greentree Road. At third light turn right onto Parkway Center Drive. Take second left into business complex. Maynard is next to Parkway Center Mall.

From the East: 76W (Turnpike) to Exit 57, Pittsburgh. Follow signs to 376W to Pittsburgh. Then follow signs for Airport (279S). Go through Fort Pitt Tunnels to Exit 4B, Parkway Center Drive. Make first right into complex. Maynard is next to Parkway Center Mall.

From West of 79: 76E (Turnpike) to Exit 28, Cranberry - Follow signs to 79S. Take 79S to 279S (left exit). Follow signs for Airport. Go through Fort Pitt tunnels to Exit 4B, Parkway Center Drive. Make first right into complex. Maynard is next to Parkway Center Mall.

IIE PITTSBURGH JOB BANK

Looking for an Outstanding Job? Begin your search at IIE's new Career Center, which offers all the features you need.

- Posting your resume is free, for as long as you want.
- Your resume remains anonymous while employers view it. Only when you give permission will your resume contact information be revealed.
- You can carefully select the jobs that most interest you by narrowing your search criteria by job function, industry, and location.
- By creating a Job Agent, new jobs that match your search criteria will be e-mailed to you for your convenience.
- Your free "My Career" account will let you store job openings, resumes, cover letters, and more. Manage your job search online and with ease.

What are you waiting for? Give your career the boost it needs and go to www.iienet.org/careercenter.

Are you an employer looking for top-notch employees? We have your needs covered, too. Go to [IIE's Career Center](#) and see all the services IIE's Career Center has to offer!

DIRECTOR OF ENGINEERING POSITION

- Compensation package in the range of \$150k to 200k
- Position requires a Bachelor's Degree and 10 years of experience
- This position reports to the SVP Logistics
- Promotional capabilities to a VP capacity
- This position is in the Northeast, in the tri-state area of PA/NJ/NY

Responsible for:

- Strategy including network modeling and optimization
- Industrial Engineering - responsible for determining lay out and design, material flow, engineered standards, best methods, and labor planning
- Mechanical Engineering - responsible for determining all material handling requirements and specifications in this automated, narrow aisle, high bay, case pick environment
- Facilities management
- MIS - Responsible for determining DC WMS needs and design specifications that integrate with corporate MIS
- Asset management, Project management and Budgetary responsibility

For additional information and to apply, contact:

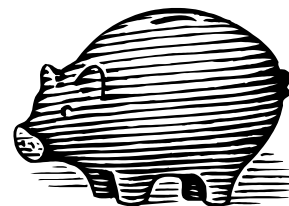
Stacy Chestnut Rini
Purcell International Group
srini@purcellintl.com
(619) 908-3000 ext.108

IIE PITTSBURGH JOB BANK INFORMATION REQUEST

The purpose of the job bank is to match qualified IIE professionals with available jobs. In the past several years, we have been successful in placing IIE members with employers.

If you or your company are looking for new employees, send a description of the position you wish to fill to the address below. We will publish your position in our monthly newsletter. Please try to limit your descriptions to 50 words or less and include a phone number, address, fax number, and e-mail so interested parties can contact you directly. Please send all descriptions to:

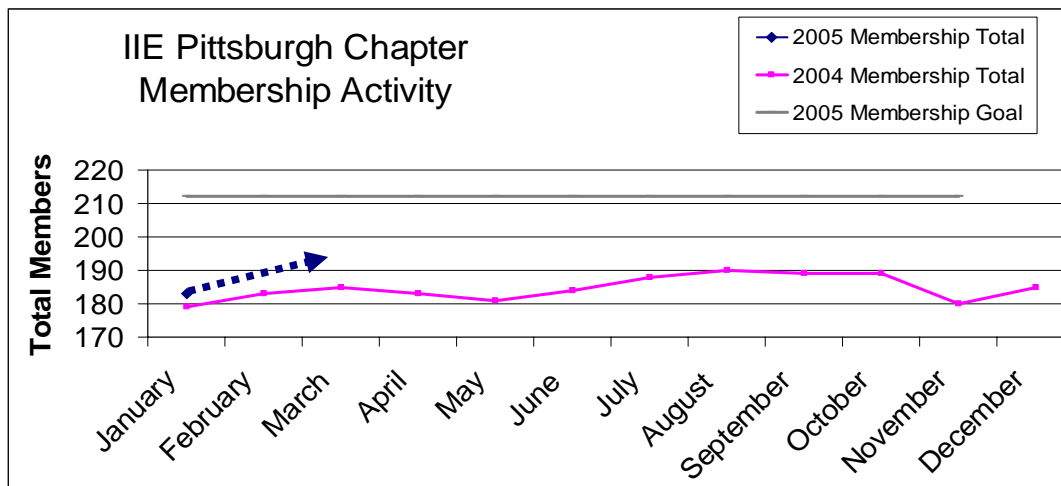
Jacki Szymanski
H. B. Maynard and Company, Inc.
Eight Parkway Center
Pittsburgh, PA 15220
Phone: 412.921.2400 ext. 136
jszymanski@hbmaynard.com



You can also advertise your job openings on the Pittsburgh IIE Chapter website: <http://www.ie.pitt.edu/IIE/jobs.html>

MEMBERSHIP REPORT

This is a new year for membership goals. This year will be focused on increasing membership while continually supporting current members. The IIE board members are focused on strategic membership initiatives while the newly formed membership committee team is focused on tactical strategies. With these teams, the goal for total members is 212 or a 15% improvement. It will be challenging to reach these numbers, but the teams are in place and have already begun making a difference. Check out the summary graph that displays where we have been, where we are, and where we are going.



NATIONAL ENGINEER'S WEEK VOLUNTEERS NEEDED

The IIE Pittsburgh Professional chapter along with the University of Pittsburgh IIE Student chapter will be hosting a booth for National Engineers' Week at the Carnegie Science Center on Friday, February 18 and Saturday, February 19.

For this year's National Engineers' Week presentation, we will utilize two simulations:

1. Helicopter Disaster Relief

This model simulates helicopters conducting disaster relief and shows an animation of this process. This demonstrates how simulation can be used to support effective logistics. We will have a poster discussing the importance of logistics and how industrial engineers work in the realm of logistics.

2. So Who's Counting?

This is a game where the participant is shown one number at a time ranging from 0 to 9 and has to place the number into the ones, tens, hundreds, thousands, or ten thousands location in a five digit number. The objective is to create the largest number that you can. The hard part is that you only see one number at a time and have to place each number without seeing any of the remaining numbers. Thus, if your first number is a 7 you may want to put it in the first location unless you think you may obtain an 8 or 9 on one of your other numbers. The optimal strategy for this game can be modeled as a Markov Decision Process. In a similar way, other decision problems can be modeled as Markov Decision Processes. In particular, we will have a poster discussing how Markov Decision Process models can be used to model organ transplantation decisions. In these problems a person needing an organ is presented with a candidate organ and must decide whether or not

to accept that organ. Factors affecting the decision include: the health of the patient, the quality of the organ, and how close a match the organ is for the patient (based on blood type and other factors.) Just as the participant in "So who's counting?" must decide how to use the number that is drawn, the patient must decide whether or not to take the organ that has been offered or to wait for a potentially better organ in the future. Thus, we can show a simple game that relates to a complex decision problem that can be modeled using industrial engineering techniques.

Students at Pitt are developing the simulations. We will then demonstrate them for visitors at the Carnegie Science Center.

We are in need of volunteers to work the booth to interact with people (many of which are elementary, middle, and high school students). Volunteers are needed for the following timeslots:

Friday, February 18:	Saturday, February 19:
8:00AM-10:00AM	9:00AM - 11:00AM
10:00AM-12:00PM	11:00AM - 1:00PM
12:00PM - 2:00PM	1:00PM - 3:00PM
2:00PM - 5:00PM	3:00PM - 5:00PM

For those of you that have volunteered in the past, you know how much fun this event is! For those of you that have not, please consider doing so. It is a great way to serve the community and spread the word to students about what IEs do. You will even receive a free t-shirt and free admission to the exhibits for the day.

If you are interested in volunteering (or you know anybody else that is interested), please contact Mary Loera at (412) 434-3353 or by email at loera@ppg.com.

TREASURER'S REPORT

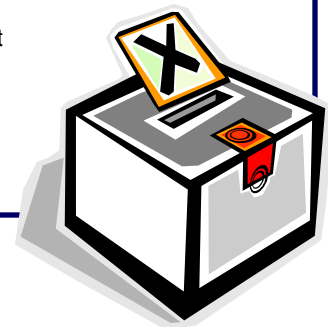
INSTITUTE OF INDUSTRIAL ENGINEERS CHAPTER IRS REPORT			
4/1/04 - 3/31/05			
CHAPTER NAME: PITTSBURGH		CHAPTER NO.:	3
FEDERAL EMPLOYER I.D. NUMBER: 25-6062810		REGION:	5
	INCOME	EXPENSES	
1. DUES INCOME	\$ 1,491.75	XXX	
2. INTEREST INCOME	1.72	XXX	
3. CONTRIBUTIONS RECEIVED (A)	-	XXX	
4. CONFERENCES (B)	-	100.00	
5. MONTHLY MEETINGS	5,245.00	4,172.36	
6. NEWSLETTERS (B)	-	-	
7. MISCELLANEOUS (B)(C)	-	-	
8. CONTRIBUTIONS AND GRANTS PAID	XXX	-	
9. PUBLICATIONS/NEWSLETTERS	XXX	313.03	
10. PROGRAMS/MEETINGS	XXX	-	
11. STUDENT DEVELOPMENT (E)	XXX	256.00	
12. COMMUNITY SERVICES	XXX	-	
13. MEMBER SERVICES	XXX	-	
14. OFFICERS & CHAPTER MEETINGS	XXX	-	
15. CHAPTER OPERATIONS SUPPLIES	XXX	7.40	
16. MISCELLANEOUS (C)	XXX	27.00	
17. TOTAL	\$ 6,738.47	\$ 4,875.79	
ENTER: 18. NET WORTH 4/01/04		\$ 3,952.03	
ADD 4/01/04-3/31/05 INCOME		\$ 6,738.47	
SUBTOTAL	\$ 10,690.50		
LESS 4/01/04-3/31/05 EXPENSES		\$ (4,875.79)	
NET WORTH 3/31/05		\$ 5,814.71	
19. STATEMENT OF NET WORTH			
ENTER: PETTY CASH ACCOUNT BALANCE	\$ -		
ENTER: CHECKING ACCOUNT BALANCE	\$ 3,073.74		
ENTER: SAVINGS ACCOUNT BALANCE	\$ 2,740.97		
TOTAL *	\$ 5,814.71		

NATIONAL IIE ELECTIONS

The following Pittsburgh Chapter members are running for National IIE positions. The deadline to vote is February 4th! Please consider supporting them as you vote in the upcoming IIE elections!

Roman M. Hlutkowsky - Senior Vice President At
Large for Industry

Jayant Rajgopal - Technical Vice President



CHAPTER DIRECTORS AND OFFICERS

POSITION	NAME	COMPANY	ADDRESS LINE1	LINE2	CITY	ST	ZIP	PHONE		EMAIL
Board Co-Chair	Don Ziegler	GENCO	100 Papercraft Park		Pittsburgh	PA	15238	412.820.2296	w	zieglerd@genco.com
									c	
Board Co-Chair	Joe Kikta	Mellon Financial Corp.	151-1575 One Mellon Center		Pittsburgh	PA	15258	412.236.6193	w	kikta.js@mellon.com
								412.889.1444	c	
Board (1st Year)	Mark Coffey	UPS	521 N. Center Ave.		New Stanton	PA	15672	724-925-4771	w	mcoffey@ups.com
Board (1st Year)	Karen Bursic	University of Pittsburgh	1048 Benedum Hall	Dept of IE	Pittsburgh	PA	15261	412.624.9837	w	kbursic@enr.pitt.edu
									c	
Board (1st Year)	Mary Loera	PPG	One PPG Place	Building 5, Floor 5	Pittsburgh	PA	15272	412.434.3353	w	loera@ppg.com
								412.818.3032	c	
President	Jeff Arnold	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x245	w	jamold@hbmavnard.com
								412.973.1748	c	
Vice President	Donna Degenhart	Columbia Gas of Pennsylvania	150 Hillside Drive		Bethel Park	PA	15102	412-885-4512	w	ddegenh@nisource.com
								412-409-4073	c	
Secretary	Stacie Amorose	Pittsburg Regional Healthcare Initiative (PRHI)	650 Smithfield Street	Suite 2150	Pittsburgh	PA	15222	412-535-0292 X106	w	SAmorose@prhi.org
				Centre City Towers				412-908-0733	c	
Treasurer	Jennifer Palmiero	FedEx Ground	1000 FedEx Dr.		Moon Township	PA	15108	412.859.2836	w	jennifer.palmiero@fedex.com
									c	
Programs Chair	Amy McHenry	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x231	w	amchenry@hbmavnard.com
								412.352.2431	c	
Programs	Doug Rabeneck	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x146	w	drabeneck@hbmavnard.com
								412.999.9728	c	
Programs	John Markowitz	Executive Toolkit						412-889-3423	w	johnm@toolkit.LC.com
									c	
Programs	Karen Bursic	University of Pittsburgh	1048 Benedum Hall	Dept of IE	Pittsburgh	PA	15261	412.624.9837	w	kbursic@enr.pitt.edu
									c	
Programs	Joe Kikta	Mellon Financial Corp.	151-1575 One Mellon Center		Pittsburgh	PA	15258	412.236.6193	w	kikta.js@mellon.com
								412.889.1444	c	
Programs	Barb Grabowski	Alcoa	201 Isabella St.		Pittsburgh	PA	15212	412.553.2229	w	barbara.grabowski@alcoa.com
								412.303.8201	c	
Membership Chair	Errol Restelli	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x232	w	erestelli@hbmavnard.com
								412.576.5594	c	
Membership	Nathan Osborne	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x266	w	nosborne@hbmavnard.com
Membership	Jon Huesdash	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x293	w	jhuesdash@hbmavnard.com
Membership	Lindsay Hollowood	U.P.S.	North Center Avenue		New Stanton	PA		724.755.3330	w	lhollowood@ups.com
										lhollowood@hotmail.com
Membership	John Petrachonis	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x286	w	jpetrachonis@hbmavnard.com
Membership	Jim Kinter	Curtiss Wright EMD	1000 Cheswick Ave.		Cheswick	PA		724-275-5103	w	james.kinter@EMD.curtisswright.com
Student Relations Chair	Bryan Norman	University of Pittsburgh	1033 Benedum Hall	Dept of IE	Pittsburgh	PA	15261	(412) 624-9841	w	banorman@enr.pitt.edu
Communications Chair	Jacki Szymanski	H. B. Maynard & Co., Inc.	Eight Parkway Center	4th Floor	Pittsburgh	PA	15220	412.921.2400 x136	w	jszymanski@hbmavnard.com
Web Master	Jay Rajgopal	University of Pittsburgh	1039 Benedum Hall	Dept of IE	Pittsburgh	PA	15261	412.624.9840	w	rajgopal@pitt.edu
Community Affairs Chair	Pat Kelly Lee	Executive Toolkit	500 Geyser Rd.		Pittsburgh	PA	15205	412.519.5409	w	pkl@toolkitlc.com
		Inspiration Point							c	

2005 Schedule of Events...

February 18-19, 2005

February 24, 2005

National Engineer's Week at the Carnegie Science Center

February Program: Proven Techniques for Analyzing, Improving and Implementing Best Methods