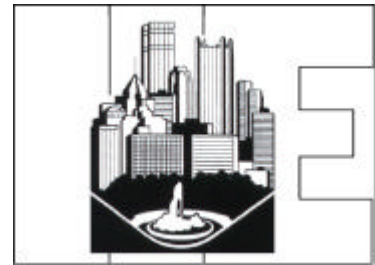


The Pittsburgh Sampler

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

MAY 2000



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IIE JUNE 2000 MEETING

WHAT: MEMBER APPRECIATION NIGHT AND BALLGAME!

WHERE: Three Rivers Stadium

WHEN: Tuesday, June 13, 2000

TIME: Tailgating starts at 5:30 p.m.; the game starts at 7:05 p.m.

DINNER: Tailgating food and beverages (including beer)!

COST: \$15.00 per person (includes tailgate & ticket)
Let us know if you would be willing to sponsor a student.
Payment by cash or check made payable to IIE is due by
Wednesday, June 6. Please send the payment to:

Terry Schmidt
H. B. Maynard & Co., Inc.
Eight Parkway Center
Pittsburgh, PA 15220

To make reservations, contact Terry Schmidt with H. B. Maynard and Company at 412.921.2400 x 120 or send her an email at tschmidt@hbmaynard.com by **Wednesday, June 1.** Please let Terry know if you will be attending the tailgater *and* the game, or just the game.

IIE JUNE MEETING PROGRAM REVIEW

Please join the Pittsburgh Chapter of IIE on Tuesday, June 13 at Three Rivers Stadium to watch the Pirates take on the Atlanta Braves. In appreciation for all of the member support this year, several prizes will be raffled off among the chapter members who attend. This will be the last event of the program year and a great opportunity to network with colleagues.



The evening will begin with a tailgate in the Clark Candy Building parking lot adjacent to the stadium. Look for the IIE sign! Game tickets will be passed out at the tailgate up until the start of the game at 7:05 p.m. Please feel free to invite your friends and family for a great evening of baseball!



PRESIDENT'S MESSAGE

As the 1999/2000 program year comes to a conclusion, I would like to thank everyone who volunteered their time and energy to make it a success. In addition to planning and executing seven great programs this year, our chapter accomplished two key achievements.

The first was the establishment of a Community Affairs Committee. Leann Wyzkowski accepted the challenge to lead this effort and did an outstanding job, considering the limited resources she had to work with. Members from the chapter gave back to our community by participating in three events. One group introduced high school students to engineering through a competition to develop a model city of the future. Another group worked with local girl scouts to help them earn an engineering merit badge. Lastly, as in the past, we partnered with the University of Pittsburgh's IE department and Student IIE Chapter to introduce young people and their families to our profession during the Engineer's Week celebration. I would especially like to thank everyone who gave their time to make the events successful.

The second key achievement was to successfully transition the University of Pittsburgh Student Night Recognition program from February to October. Our October meeting achieved record breaking attendance. It was exciting to see so many sophomores and juniors enthusiastically participate in the event, which typically was attended by only senior students. This not only provided an excellent opportunity for local companies to meet prospective employees, but I believe this is one key way to grow the local chapter and the IIE organization.

This month's newsletter also contains the ballot for our candidate slate for the 2000/2001 program year. I have accepted the nomination to serve another term as chapter president. I look forward to working on improving the value our chapter provides members and will work with the board of directors to continue implementing the strategic plan. Although none of the officers and directors are running opposed, I encourage everyone to mark and return their ballot per the instructions.

Sincerely,

Doug Rabeneck
Pittsburgh IIE Chapter
President



STUDENT CHAPTER NEWS

As the spring semester ends at the University of Pittsburgh and the members of the I.I.E student chapter prepare for their internships, co-op jobs, summer classes, or even graduation, a few changes have occurred to the I.I.E. student chapter board. A new president and vice president of I.I.E. seminar have been elected to fill the upcoming vacancies of these positions.

The members of the student chapter are pleased to announce that the new president of the student chapter at the University of Pittsburgh will be Michael Grove. He will be assisted by Marcia LeDonne, who was elected to the position of vice president of the weekly seminar. Both students are eager to begin their term and have experience in working with the I.I.E. student chapter, serving as secretary and treasurer respectively on the board during the last semester.

Since this is my last newsletter article, I would like to thank Dr. Kim Needy and Travis Brown for their dedication and support to the I.I.E. student chapter. If anyone has any questions, comments, or ideas for the new members of the student board, Michael Grove can be contacted at mjgst49+@pitt.edu, and Marcia LeDonne at malst83+@pitt.edu. Again, thank you for the time and support you have all shown me during the past semester.

Andy Hutelmyer
University of Pittsburgh IIE Student Chapter President

2000 IIE Northeast Regional Student Conference

On April 7-9 the University of Pittsburgh sponsored the 2000 IIE Northeast Regional Student Conference. Nearly 90 people from nine Region 1, 2, and 5 schools were in attendance including SUNY Buffalo, Western New England College, University of New Haven, New Jersey Institute of Technology, Rutgers University, Lehigh University, Rochester Institute of Technology, Pennsylvania State University and University of Pittsburgh. In addition, members from the Pittsburgh Chapter came out in force to show their support. Thanks are in order to **Travis Brown**, Conference Chair, for organizing and conducting a top-notch conference. We would also like to thank the following Pittsburgh Chapter conference speakers: **Jeff Arnold**, **Bart Nnaji**, **Brad Parrish** and **Randy Sadowski**; and technical

paper judges: **Karen Bursic, Angela Konop and Jeff Peretin** for their efforts in making the conference a success. Sponsorships from H. B. Maynard, FedEx Ground, UPS, McCarl's, University of Pittsburgh Department of Industrial Engineering, IIE National, IIE Pittsburgh Chapter, IIE South Jersey Chapter, IIE Philadelphia Chapter and FMC Corporation helped to underwrite the cost of the conference. SUNY Buffalo will host next year's conference.

expensive PACS, using only a standard PC and web-browser. Doctors anywhere can access the images instantaneously, even multiple images on the same screen. Stentor, a private company from San Francisco, is developing the technology commercially.

Thanks to Duane Falk of UPMC's IT department, and to Dr. Chang of Radiology for an interesting and informative evening!

RECAP OF APRIL'S MEETING

April's meeting at Montefiore - University of Pittsburgh Medical Center provided a very interesting opportunity to view how the "Just-In-Time" (JIT) model has been applied to the delivery of medical images. Paul Chang, MD (Associate Professor, Radiology) provided a high-energy demonstration of an exciting new technology developed by his team at UPMC, which could revolutionize medical image archiving, distribution, and display. Dr. Chang's team was trying to solve a "workflow" problem - in order to effectively diagnose or treat patients, physicians/surgeons require patients' medical images wherever they are (in surgery, in a private office, in a hospital in the next county).

The objective for the team was to quickly (nearly instantaneously) distribute medical images (x-rays, MRI's, etc.) in full fidelity to medical professionals in any location, without the use of special (expensive) equipment. Traditionally, film (for example, printed x-rays) or other media has been used to distribute images, with obvious drawbacks. In the last few years, electronic distribution has been developed using various picture archiving and communications systems (PACS). The disadvantages of these systems are that they are very expensive (UPMC's PACS system cost \$20 million and up) and require transferring massive data sets (in order to display full fidelity images) across networks. An expensive workstation (\$100,000 and up) is required to view the images. Traditional compression/decompression is not suitable, since some detail is lost in the process (not a good thing if a doctor is diagnosing your health problem!).

Dr. Chang's team at Montefiore UPMC Data Center developed a new technology called Dynamic Transfer Syntax (DTS) to "stream" image data "Just-In-Time" via the web to any browser-equipped PC. The team realized that lower-fidelity is acceptable when initially scanning and "moving-around" an image, searching for the area of interest. Full fidelity (high resolution) is required when the doctor focuses on a particular portion of the image. Therefore, DTS streams a lower-fidelity image as the doctor initially moves around, and then streams the detailed image data as soon as he/she stops to examine an area of interest. The image "sharpens" within less than one second once the image is halted. The result is that the images are delivered more quickly and smoothly than with the

TREASURER'S REPORT

April 1, 1999 to March 31, 2000
IIE Pittsburgh Chapter 3, Region 5

	INCOME	EXPENSE S
Dues Income	\$3,303.50	
Interest Income	81.25	
Contributions	1,750.00	
Monthly Meetings	3,112.00	\$4,116.27
Newsletters		2,131.43
Member Services		485.00
Chapter Supplies		90.60
Miscellaneous	61.61	91.56
TOTAL	\$8,308.36	\$6,914.86
Checking Acct. Balance	\$1,741.74	
Savings Acct. Balance	2,467.04	
TOTAL	\$4,208.78	

For additional information contact
Donna Degenhardt, Treasurer

JOB BANK

The purpose of the job bank is to match qualified IIE professionals with available jobs. In the past several years, we have placed 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.

SENIOR INDUSTRIAL ENGINEER

Specialty Tires of America is looking for a senior IE to review and analyze production methods, floor space utilization, material flow, new equipment justification, and line balancing. The candidate must possess good oral and written communication skills, be familiar with standard data work measurement systems and incentive programs. A degree in Industrial Engineering and minimum of 5 years experience in medium to heavy manufacturing operation is required. Specialty Tires offers a competitive salary, good benefits program, stable company, and limited travel. If you are interested, please send your resume to **Linda J. Steel, Manager-Personnel Administration, Specialty Tires of America, Inc., 1600 Washington Street, Indiana, PA 15701.**

For those not in health care, the techniques for modeling customer flows, queues, and resource use translate well across a variety of management disciplines.

For more information and registration, contact Dr. Kennedy at michael.kennedy@sru.edu or by phone at 724.738.2240 as soon as possible regarding

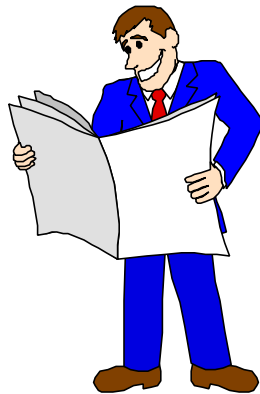
- 1) expedited registration procedures, and
- 2) procedures for previewing the Course Info/Blackboard site hosting the Internet delivery of the course

http://www.sru.edu/depts/chhs/allied/HSA/Sim_Course.htm

Michael H. Kennedy, Ph.D., FACHE
Assistant Professor, Health Services Administration Program
Slippery Rock University of Pennsylvania

CHAPTER NEWSMAKERS

Dr. Kim LaScola Needy is the recipient of the 2000 Beitle-Veltri Teaching Award. This award recognizes outstanding teaching in the School of Engineering at the University of Pittsburgh. It is the only award given school-wide that specifically recognizes teaching excellence. She also will be promoted to Associate Professor with tenure effective September 1. Congratulations, Kim!



THE 2000 MAYNARD FORUM -

"Building the Passion to Succeed Using Lean Tools & Techniques"

Sept. 5 - 7, 2000

Sheraton Station Square
Pittsburgh, PA



Are you looking for an excellent opportunity to further develop your skill set? If the answer is YES, you need to attend the **2000 MAYNARD FORUM!**

H. B. Maynard and Company has been in the forefront of Industrial Engineering for over 65 years. Each year Maynard brings together hundreds of the profession's top minds to uncover new methodologies and share experiences through an open learning environment. The theme for this year's Forum is **"Building the Passion to Succeed Using Lean Tools & Techniques"**.

We have scheduled three exceptional and impressive keynote speakers who have been in the forefront of the lean thinking. They are Guy Parsons, Rick Harris, and Jim Goughenour. Along with our keynotes, an additional 25 outstanding presenters will join the Maynard staff to share case studies, lead panel discussions, and facilitate open discussions and informational sessions.

We encourage you to take this opportunity to expand your knowledge, as well as interact and network with your peers. This 2½ day Forum will be packed with practical information that you can take back and implement in your own work environment. For additional information, *please visit Maynard's Home Page at www.hbmaynard.com.*

MEMBER DEVELOPMENT OPPORTUNITIES

Simulation Class on the Internet

Dates Offered: June 5 - August 10, 2000.

In-state costs for a three credit, graduate course: \$796.68

Dr. Michael H. Kennedy at Slippery Rock University of Pennsylvania will be offering a three-credit, graduate course via the Internet called AHea 41-590, Simulation Modeling and Analysis with Health Services Applications. Simulation is emerging as an important quantitative tool for leaders and managers in a variety of disciplines. The software taught will be MedModel and applications will be written to model contemporary health services problems.

to come to one of our upcoming meetings and to join IIE. If you are interested in obtaining membership forms, visit IIE's home page (www.iienet.org/forms/memapp.htm) or contact Bryan Norman at 412.624.9841.

MEMBERSHIP STATUS REPORT

We currently have 175 members in the Pittsburgh Chapter and we would like to welcome the following new members:

- Mr. Gary Napotnik, Systems Modeling Corp.
- Mr. Jorge Valenzuela

Remember, if you know other industrial engineers or people working in an industrial engineering capacity, encourage them

CHAPTER ACTIVITY REPORT

Below is a semi-legible copy of the letter I received from National IIE indicating our Chapter ranking based upon the Chapter Activity Reporting criteria. Congratulations on everyone's hard work this year.

Sincerely,

Doug Rabeneck
Pittsburgh IIE Chapter President



INSTITUTE OF INDUSTRIAL ENGINEERS

25 Technology Park/Atlanta • Norcross, Georgia 30092-2988 • 770-449-0461 • Fax 770-263-8532 • www.iienet.org
Member & Customer Service Center: 770-449-0460 • 800-494-0460 • Fax 770-441-3295

April 26, 2000

Mr. Douglas Rabeneck
8 Parkway Ctr
Pittsburgh
PA
15220
USA

Dear Mr. Douglas Rabeneck:

Congratulations on your chapter's Silver Award in the 1999 Chapter Recognition Program!

The local chapters are the heart of IIE and one of the most significant benefits that members receive. Your chapter has made an extremely valuable contribution, both to the Institute and to the profession, through your efforts to provide high quality programs and services for the members in your area. You and all of your members are to be congratulated on your achievements during the past chapter year.

Please accept our thanks and convey them to your officers, Board, and members.

Sincerely,

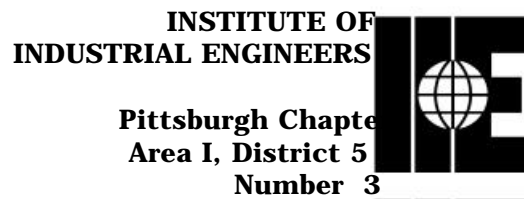
Jane Algee
IIE President, 2000-2001

Gillian Nicholls
Senior Vice President-Chapter Operations

Election Ballot

Election Ballot

Election Ballot



Each year, officers and directors are elected by the IIE Pittsburgh Membership for the following chapter year: June 1 through May 31. This year the nominating committee, consisting of Zed Beru, Barb Grabowski, Mike Helbling and Kim LaScola Needy, has assembled the following slate of candidates for your consideration. Officers are elected for one year, while directors are elected for two years.

Position	Nominee	Company
-----------------	----------------	----------------

Board of Directors <i>(Vote for up to four)</i> Write in Candidate	Roman Hlutkowsky Pat Kelly Lee Holly Rowland Kjell Zandin ----- -----	FedEX Ground Re-engineering Services ADC Telecommunications H. B. Maynard and Co.
President Write in Candidate	Doug Rabeneck ----- -----	H. B. Maynard and Co.
Vice President Write in Candidate	Jeffrey Peretin ----- -----	H. B. Maynard and Co.
Secretary Write in Candidate	Donna Degenhardt ----- -----	Columbia Gas
Treasurer Write in Candidate	Mark Coffey ----- -----	UPS

Please fax (412-624-9831) or email (kneedy@engrng.pitt.edu) your ballot choices to Kim LaScola Needy at the University of Pittsburgh.

Thank you very much for your response!

CHAPTER DIRECTORS AND OFFICERS

Directors

Bopaya Bidanda
Univ. of Pittsburgh.....(412) 624-9843
Bidanda@engrng.pitt.edu

Roman Hlutekowsky
RPS(412) 262-6021
Rhlutekowsky@PGH.ShipRPS.com

David Jackley
Knowbility, Inc.(412) 367-1778
djackley@stargate.net

Kjell Zandin
H. B. Maynard & Co.....(412) 921-2400 ext. 116
kzandin@hbmaynard.com

Officers

President

Doug Rabeneck
H. B. Maynard & Co.....(412) 921-2400 ext. 146
drabeneck@hbmaynard.com

Vice President

Holly Rowland
ADC Broadband Wireless(724) 873-1500 ext. 165
holly_rowland@adc.com

Secretary

Mike Helbling
Hanson North America, Inc.(412) 208-8858
helbling@hansonle.com

Treasurer

Donna Degenhardt
Columbia Gas.....(724) 891-5206
Ddegenh@ColumbiaEnergyGroup.com

Membership Committee Chairman

Mary Loera
PPG Industries.....(412) 434-3353
loera@ppg.com

Programs Committee Chairman

Jeff Peretin
H. B. Maynard and Co., Inc.....(412) 921-2400 ext. 186
jperetin@hbmaynard.com

Community Affairs Committee Chairman

Leann Wyzkoski
PPG Industries.....(412) 434-2586
wyzkoski@ppg.com

Newsletter

Terry Schmidt
H. B. Maynard and Co., Inc.....(412) 921-2400 ext. 120
tschmidt@hbmaynard.com

Univ. of Pittsburgh Student Chapter

Kim Needy - Faculty Coordinator
Univ. of Pittsburgh/ Dept. of IE.....(412) 624-9838
kneedy@engrng.pitt.edu

Student Chapter President

Andrew Hutelmyer.....(412) 681-6182
aphst11+@pitt.edu



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. Once you contact IIE National, your address change will be reflected on our next mailing list, which we receive from IIE National each month.

NEXT MONTH'S MEETING

Our next regular meeting is scheduled for September. During the summer, your officers, directors, and committee members will be working on operational issues within the chapter and planning next years' events. If you have any suggestions for newsletter articles, meetings, or activities you think the chapter should participate in, please contact one of our officers.

See you in September and have a great summer!

INSTITUTE OF
INDUSTRIAL ENGINEERS

Pittsburgh Chapter
Area I, District 5
Number 3



November 17	ADTRANZ
December 13	Penn Brewery
January 11	Board/Officer/Cmte. Planning Mtg.
February 8	Tour of US Postal Service Bulk Mail Facility
February 26	Engineers Weekend @ Science Center
March 9	Matthews Int'l. Tour
April 12	UPMC
June 13	Pirates Baseball Game

Eight Parkway Center
Suite 400
Pittsburgh, PA 15220

1999 - 2000 SCHEDULE OF EVENTS

September 21	Sand Castle Tour
October 14	Univ. of Pittsburgh Student Night

