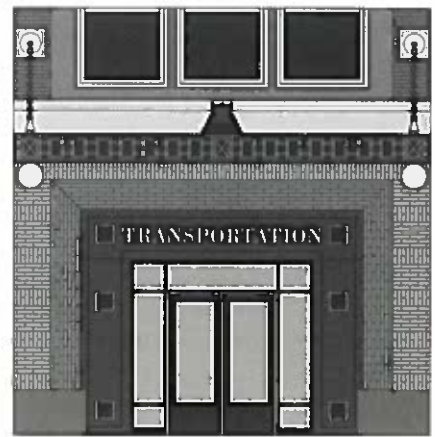


# University of Illinois at Urbana-Champaign General Engineering Alumni Newsletter

Volume 1, Number 1 • Winter 1996



## GE 242 Teams Sweep the 1995 Lincoln Arc Welding Awards

The 1995 Lincoln Arc Welding Foundation Awards were the best ever for the Department of General Engineering. Our GE 242 student teams took 9 awards: Best of Program, 2 Silver Awards, and 6 Merit Awards. In the previous three years, our teams won 11 awards: a Gold Award, 2 Silvers, 2 Bronze, and 6 Merit Awards. Since 1928 when GE 242 teams began to enter the competition, our students have won a total of 58 awards.

Congratulations to this year's winners and their advisors for such an outstanding performance. Special thanks should go to Peggy Hills for encouraging teams to enter the competition at the end of the semester, when making any extra effort is so difficult.

## Best of Program

**Title of Project:** *Noise Reduction of a Wet/Dry Vacuum Cleaner*

**Student Team:** Robert Barrett,  
Kimberly Meadors, John Umstead  
**Faculty Advisor:** W. Brent Hall  
**Sponsor:** Eureka Company,  
Bloomington, Illinois

## Photos Needed for *History of General Engineering*

Professor emeritus Jerry S. Dobrovolny is putting the finishing touches on the *History of the Department of General Engineering*, which will be published in 1996, to coincide with the department's 75th anniversary. We need your help in making this book truly special. We are looking for pictures of your time here in GE: photos of student activities, students in labs, special projects, award ceremonies, or the campus in general. We are especially interested in photos from the 1920s through the 1940s. A description of what is happening in the photo and names would be

helpful. If there is an anecdote or story that goes along with the photo, please let us know that as well.

We will duplicate the photos as soon as we receive them and return the originals to you. If they are not used in the book, we may use them in future newsletters. A general engineering coffee mug will be sent to all of you who provide us with your old photos. Please send photos and stories by February 29, 1996, to:

Maureen Krauss, Department  
of General Engineering  
104 Transportation Building  
104 South Mathews Avenue  
Urbana, IL 61801

Information on obtaining copies of the book will be available in a future newsletter.



*continued on page 4*

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**Associate Department Head**  
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Goldberg, David E.  
Kuznetsov, Edward N.  
Medanic, Juraj V.  
Metz, L. Daniel  
Palmore, Julian  
Spong, Mark W.

**Associate Professors**  
Burns, Scott A.  
Coskunoglu, Osman  
Hall, W. Brent  
Moeinzadeh, Manssour H.  
Reis, Henrique L. M. dos  
Thurston, Deborah L.  
Wozniak, Louis

**Assistant Professors**  
Kim, Yong Se  
Sreenivas, Ramavarapu S.  
Srikant, Rayadurgam

**Adjunct Professors**  
Carnahan, James V.  
Ruhl, Roland L.

**Lecturers**  
Al-Ansary, Mohammad D.  
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Mitchell, Todd  
Mottier, Charles H.  
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Wildblood, Harry S.  
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Krauss, Maureen

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## From the Main Office

For the past two years, the campus has been engaged in a planning process to develop a strategic plan for the University of Illinois at Urbana-Champaign. This resulted in a document entitled "A Framework for the Future," published in May 1995. This framework enunciated seven principles.

1. We shall invest in people.
2. We shall build upon our traditional pre-eminence and advantages as a center for a broad range of scholarship and research.
3. We shall accord full value to our teaching mission preparing our students for professional life, leadership, and citizenship in a changing world.
4. We shall invest strategically in the facilities and environment that our faculty and students need to do their work.
5. We shall intensify our exploration and use of new teaching and information technologies, and build on our historic strengths in information and computing.
6. In connection with the increasingly international character of our economy and culture, we shall strengthen our strategic engagement in international studies.
7. We shall reinvigorate our commitment to outreach and partnerships.

The last goal, to reinvigorate our commitment to outreach and partnerships, is being met by a new initiative called Partnership Illinois, where faculty expertise will be brought to bear on the educational, technological, economic, social, and cultural challenges facing Illinois and the broader society. One aspect of the partnership in the GE department is our undergraduate flagship program in senior design in which all faculty are engaged. This program has been in effect for close to 30 years and has been a continuous two-way conduit for flow of information and technology between our partner companies and the senior design effort of our students and their faculty advisors. We have been a national leader in the approach to the senior design activity, and our program has been used as a model by many other schools. In my travels to other institutions, I compare our capstone program to others, and I can confidently state that ours is the best.

But being the best is never sufficient, we must always be improving if we are to maintain our position of leadership. Last semester we had 11 projects for our seniors from a wide array of companies throughout Illinois and from neighboring states. This semester, we will have approximately 19 projects for our seniors. The dedication and hard work of Professor Jim Carnahan and Ms. Peggy Hills maintains the incoming quality of projects and strong administration of those projects. The dedicated, hard work of our faculty assures that the students are indeed obtaining a first-rate education and doing first-rate work in their projects.

Sincerely,

A handwritten signature in cursive script that reads "Thomas F. Conry".

Thomas F. Conry  
Professor and Head

## Mighty Oaks from Tiny Acorns Grow

The GE 242 Senior Design Project course recently paid off in a big way. Professor James Carnahan and Professor Deborah Thurston were awarded a three-year, \$300,000 grant from the National Science Foundation to develop pollution prevention strategies in design and manufacturing.

The path to this grant began with Eric Vallejo (BSGE 1992) and GE 242. Eric had completed a cooperative engineering experience with Armstrong World Industries, Inc., in Kankakee, Illinois, and suggested to them and to Carnahan that involvement in GE 242 might be beneficial. Working with Armstrong management, Carnahan defined a GE 242 project to develop a procedure for sampling and identifying the chemical constituents of Armstrong's toxic and hazardous air pollution. Thurston served as project advisor in the fall of 1993. The student team (Marcus Hatch, Yvonne Bernard, and Oscar Beck) put in many long hours at the plant and did such a good job that Armstrong continued with two more projects. The student teams in the spring of 1993 (Sandra Burt, David Clauson, and Brian Larson) and the fall of 1994 (Brian Binder, Kelly Carmichael, Carolyn Daly) kept up the good work, under Thurston's direction. These projects focused on quantifying the extent of Armstrong's air pollution and on developing a lifecycle input/output data management system to track raw materials through the plant to the air, water, solid, and hazardous waste that is generated.

Another GE 242 project sponsor also contributed to the success of Carnahan and Thurston's research. Prefinish Metals' spring 1995 project (Mike McGivern, Robert Van Valkenberg, Joseph Cwynar,

and Amy Stephen) reduced hazardous waste by 50% and saved the company approximately \$40,000 per year in disposal costs.

One of our general engineering alumni, Dan Kraybill (BSGE 1974, MSCE 1977) of the Hazardous Waste Research and Information Center (HWRIC) in Champaign, was involved in many phases of these senior projects and many others with an environmental focus. Based on the promising results of the work of the student teams, HWRIC and Armstrong supported graduate research to study the technical and economic viability of pollution prevention strategies as opposed to costly end-of-pipe treatment. Marcus Hatch (BSGE 1993), along with Chris Carson (BSGE 1994), Ed Spellman (BSGE 1992, MSCE/MBA 1994), and Adam Wood (BSME 1994) were some of the students supported during their studies. Additional funding for the work came from Thurston's Presidential Young Investigator award from the National Science Foundation.

The GE 242 results helped Thurston and Carnahan demonstrate the viability of their ideas in a real industrial setting. They wrote a proposal to the Environmentally Conscious Manufacturing program of the National Science Foundation to develop theoretical foundations for an industry-independent design methodology for pollution prevention. It will integrate formal decision theory, utility analysis, and statistical manufacturing process experimentation and control. That proposal was funded for research work to begin in 1996. Thurston and Carnahan will be searching for excellent doctoral students to involve in this long-term research program.

## John Deere Mechatronics System Lab Announced

In October 1995, Michael Senneff, GE 1971, and product safety engineer and university liaison for the John Deere Foundation, presented the Department of General Engineering with a check for \$25,000 to develop a Mechatronics System Laboratory.

The lab, which will be run under the supervision of Professor Mark W. Spong, will be equipped with actuators, computers, motors, software, and components for mechatronic design and fabrication projects. The resources available in



Michael Senneff (right) of John Deere Foundation presents the check for the John Deere Mechatronics System Laboratory to Professor Mark Spong.

the lab will facilitate the rapid development of new courses in mechatronics systems design and real-time control systems. In addition, a secondary field in mechatronics is being added to the GE curriculum.

The John Deere Mechatronics System Laboratory will enhance

*continued on page 4*



## Mechatronics

*continued from page 3*

the educational opportunities available to GE students by bringing state-of-the-art technology and hands-on engineering experience into the classroom. We appreciate John Deere's commitment to making this possible and look forward to a long, mutually beneficial partnership.

## Welding Awards

*continued from page 1*

### Silver Awards

**Title of Project:** *Suspension Design and Evaluation*

**Student Team:** Michael Burzawa, Eric Thompson, Jill Tucker

**Faculty Advisor:** L. Daniel Metz

**Sponsor:** Illinois Tool Works, Inc., Glenview, Illinois

**Title of Project:** *Automation of Drying Operation*

**Student Team:** Scott Ely, Peter Friddle, David Lowe

**Faculty Advisor:** Mark W. Spong

**Sponsor:** C. J. Saporito Plating Co., Cicero, Illinois

### Merit Awards

**Title of Project:** *Evaluation and Optimization of a Fault Detection and Identification Technique*

**Student Team:** Jared Howerton, Timothy Phillis, Howard Ritter

**Faculty Advisor:** Juraj V. Medanic

**Sponsor:** McDonnell-Douglas Aerospace, St. Louis, Missouri

**Title of Project:** *Improvements to a Bottle-Filling Line*

**Student Team:** Timothy Becker, Greg Kroenke, David E. Ludwa

*Top:* Dean Schowalter chats with Dick Reynolds, GE '53. *Right:* Professor emeritus Jerry S. Dobrovolny (left) tells a story to Maureen Krauss, Dennis Galle, GE '58, and Tom, GE '60 and Alice Prickett.

**Faculty Advisor:** Wayne J. Davis  
**Sponsor:** Testor Corporation, Rockford, Illinois

**Title of Project:** *Design of a Coolant Filler Valve*

**Student Team:** Scott Brown, Jeffrey Carter, Robert Ochonicky

**Faculty Advisor:**

James V. Carnahan

**Sponsor:** Cummins Engine Company, Columbus, Indiana

**Title of Project:** *Design of a Robot Transporter*

**Student Team:** Carmen DiGiovine, David Reneau, James Sutcliffe, Delbert Wallace

**Faculty Advisor:**

Osman Coskunoglu

**Sponsor:** Genesis Systems Group, Ltd., Davenport, Iowa

**Title of Project:** *Pinball Machine Playfield Material Substitution*

**Student Team:** Scott Cummings, Paul Henke, Kurt Klemm, Wayne Pruchniak

**Faculty Advisor:** David Goldberg

**Sponsor:** Premier Technology, Bensenville, Illinois

**Title of Project:** *Hose Assembly Modification*

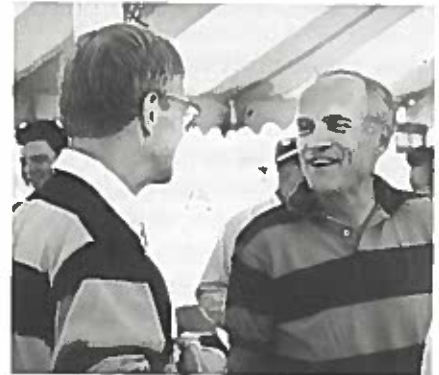
**Student Team:** Mark DePoorter, Jami Thornton, Christopher Wyatt

**Faculty Advisor:** Wayne J. Davis

**Sponsor:** Testor Corporation, Rockford, Illinois

## A Perfect Day for a Tent Party!

A record number of GE alums attended this year's College of Engineering Tent Party. The party was held on September 16, 1995, before the Illinois-Arizona game. Alums were able to visit with GE faculty members, former classmates, and more than 200 other engineering graduates. The weather-perfect day was capped off with a 7-0 Illinois victory over the Wildcats.



## Faculty Updates...

Professor **W. Brent Hall** received the Distinguished Faculty Award at the 1995 Spring Awards Banquet. We apologize for inadvertently omitting his award in the Spring 1995 Newsletter.

Professor **Manssour H. Moeinzadeh** of general engineering and of bioengineering has been awarded a second United Nations Development Programme Award under the Transfer of Knowledge Through Expatriate Nations (TOKTEN) Project. This unprecedented second award has been bestowed on him in recognition of his fruitful and valuable contributions under the first TOKTEN award in 1994, for establishing collaborative biomedical and rehabilitation engineering research and educational projects with overseas institutions, namely two universities and the Ministry of Culture and Higher Education in Teheran, Iran. He utilized this second award by returning to Iran to continue his honorary and scientific advisory role during the winter break.

Professor **Mark W. Spang** presented a paper entitled "Intelligent Control of Underactuated Mechanical Systems" at the International Symposium on Intelligent Robotic Systems in Bangalore, India, November 21-24, 1995. He was also the conference co-chair. He has received a grant from the National Science Foundation for \$10,000 to support travel expenses for the U.S. participant to this symposium. He was the featured speaker at the Robotics and Intelligent Systems Technology (RIST) International Forum in Kumamoto City, Japan, on December 5, 1995. The title of his 90-minute lecture was "Intelligent Systems and Non-linear Control Theory: Bridging the Gap." He has been elected to a

three-year term as a member of the Board of Governors of the IEEE Control Systems Society.

Professor **Henrique Reis** is pleased to announce that Allied Signal is the most recent company joining the Nondestructive Testing and Evaluation Research Laboratory by supporting research in the area of nondestructive evaluation of ultrasonic welds. Currently, the laboratory is supported by Allied Signal, Amoco, Elco Industries, American Retreaders Association, U.S. Army, NASA Lewis Research Center, Illinois Department of Commerce and Community Affairs, and Federal Aviation Administration. The laboratory supports research work in the following areas: ultrasonics (immersion, air-coupled, and water-squirt), laser-driven-ultrasonics and interferometry, acoustic emission, acousto-ultrasonics, impact-echo, microfocus radiography, ultrasonic and x-ray computed tomography, electromagnetics, eddy currents, and holography.

## GEPS Increases Job Options for GE Students

The General Engineering Placement System (GEPS) is an organization sponsored by both ISGE and Gamma Epsilon whose main duties are as follows:

- to inform GE students of current job openings,
- to offer job search guidance,
- to familiarize companies with the GE curriculum.

This is the first year a GEPS committee has existed. In the past, it has been a chair under ISGE. The

committee consists of seven students who put forth their efforts and time to create a team that is unique to the GE Department. It has similar goals as the Engineering Placement Office (EPO), which also serves as a job placement system. Most engineering students use EPO to set up interviews and obtain information about companies. This brings many to ask the question, "Then why does a GE student need GEPS?" GEPS holds a special importance in that it serves as a guide for GE students. Larger companies may know about general engineering at the University of Illinois, but many of the smaller companies do not. They are misled by the word "general" and don't bother to find out exactly what the curriculum is all about. In many cases, this puts GE students at a disadvantage. When companies don't have the knowledge about the GE curriculum, GE students are forced to sell not only themselves but their major as well. GEPS is attempting to deal with these issues and is hoping to increase both the confidence of GE students and the job market for GE students.

GEPS has just completed a Résumé Book containing the résumés of all GE seniors. If you are interested in a copy of the book, please call Peggy Hills at 217-244-8835 or e-mail [p-hills1@uiuc.edu](mailto:p-hills1@uiuc.edu).

Last semester, GEPS sponsored Résumé Night, Cover Letter Night, and Interview Night. Future plans include "Top 10 Reasons to Be a GE" t-shirt, a career workshop, and more!

## Alumni Donations Enhance GE Department

In the past fiscal year, the people listed in this article have donated to the Department of General Engineering. Donations to our unrestricted fund support student labs, research facilities, and the other extras that allow our department to provide a high-caliber education to our students. Donations can also be earmarked for one of the seven endowment funds that provide awards and scholarships to our students. We want very much to add your name to this list next year: you will find an Annual Fund donor form on page 9. Thank you to our current donors—your contributions do make a difference.

Frank C. '83 and Debra B. Albert  
Gary R. '69 and Barbara L. Allie  
George R. '64 and

Nannette C. Armstrong

Donald J. '55 and Collette E. Babicz  
William S. '76 and Cheryl Sue Bennett  
Brian R. Buisker '83 and

Sherry L. Watso

William A. '50 and Carol L. Chittenden  
Thomas W. '84 and Anne M. Clarke  
Robert W. '38 and

Garnet Ginther Dalrymple

Diane M. De Marco '75

Jerry S. '43 and Joan G. Dobrovlny  
Mark W. '76 and Ruth E. Duenser  
William R. '64 and Judith M. Evans  
Russell E. Ewers '69 and Sharon Yates  
Ethan T. Franklin '90

Daniel L. Grill '87 and Mary Burns  
Mary A. '83 and Michael E. Hannigan  
Frederick A. '28 and Rachel M. Hansen  
J. Edward '55 and Patricia Jean Haug  
James R. Hayes '79 and Susan L. Duba

Richard B. '70 and Sandra K. Hoffman  
Robert P. '70 and Kathleen W. Hoffman  
Gregory L. Ives '77

Frederick W. '89 and Julie A. '92 Jewell  
Joseph A. '84 and Christine S. Kann

John W. Kozel '89

Daniel P. Krueger '87

Shelby D. '65 and Cynthia Lou Lawder  
Edwin C. Lennox III '92

Paula R. '86 and

Christopher L. Markos

Ellen McRaith '87

Richard H. '72 and Patricia J. Moburg  
Edward B. Nowak '89

Timothy P. '87 and Lori A. Oberg

William Lee '77 and Sibyl A. Pellum  
Mary Beth Prickett '87

Thomas A. '60 and Alice A. Prickett  
John B. '74 and Lee A. Reat

Roger A. '69 and Deborah J. Reeves

Robert A. '71 and Donna Roads

Mark R. '84 and Erika A. Rosenberger  
Joseph J. '73 and Nancy J. Sarmiento III

Mary Janousky '77 and

Richard A. Schnurr

Dina L. '86 and Jeffrey L. Scott

Gary R. '78 and Katherine A. Steere

Thomas M. Tirpak '89

George P. Vlcek '82

Jeffrey F. '72 and Carol V. Voelz

Eileen T. '79 and Richard J. Yahl

Bruce A. '70 and Susan Alison York

## Just the Fax

In our summer update, we requested a fax machine that could be used by students for GE 242 Senior Project Design and by the General Engineering Placement Service. A big THANK YOU goes to Fred Bell, GE 1984, Molex Incorporated, and Kevin Krak, GE 1984, Gallant Construction, for donating a total of *five* fax machines to the department. Most are in use at the present time, and it is comforting to have a back-up for when we need it. On behalf of the students in general engineering, we would like to express our appreciation to Fred and Kevin.

## Alumni Mentoring Program Up and Running

This past October, six GE alumni came to campus to present the newly established GE Alumni Mentoring Program to a joint meeting of Gamma Epsilon and ISGE. Not only did the alumni discuss the opportunities available to students who join the program, but they also were able to answer many questions from the audience regarding secondary fields, graduate schools, and the current job market. These types of issues will be dealt with one on one when students are matched up to their mentors. If you would like to receive a mentor application, please contact Maureen Krauss, Alumni Relations, or call Fred Jewell, GE 1987, at 708-714-2351 with any questions.

## Gamma Epsilon Gets Involved

Gamma Epsilon has been very active this semester. There were three main areas the board wanted to concentrate on. First, we wanted to get the current membership more involved. Our current members were called on to attend the Prospective Member Social, held before Gamma Epsilon's first general meeting. This ice-breaker enabled us to initiate half the eligible potential members. Current members were asked to participate in the Gamma Epsilon Mentor Program, which involves pairing up the juniors and seniors in the department with first-year students.

We also wanted to see more interaction between Gamma Epsilon, the GE Department, ISGE, and GEPS. This included the fall picnic, for which we rented a huge grill and had a tent set up, and the combined Secondary Field / Alum Mentor Night, in which we got a



chance to meet the new faculty member, Professor Rayadurgam Srikant. All of the events had good turnouts. Another activity was an interdepartmental contest to find out "Who shot Prof. Burns?" Fun was had by all who participated.

Finally, we wanted to see Gamma Epsilon involved more outside the building and with the College of Engineering. Representatives were sent to the Engineering Employment Expo and Engineers' Night. Gamma Epsilon also participated in Engineering Council's softball tournament and Tau Beta Pi's Quest for the Golden Rake; all proceeds went to charity.

The future of Gamma Epsilon lies with its members. Gamma Epsilon initiated 18 new members at the fall banquet. These new members are working enthusiastically for the good of Gamma Epsilon and the department. Leroy Kendrick, GE 1978, spoke at the initiation banquet on "What I wish I would have known when I was a GE student." Plans are underway for an even more productive second semester.

## Illinois Society of General Engineers Increases Membership

The Illinois Society of General Engineers (ISGE) has turned up a new leaf. This year's executive board asked its members if they would like more activities and more inclusion of other societies and alumni. The response triggered enthusiasm and new interest in the organization. The number of members has risen to 90, much larger than in previous years. Events have included the usual general meetings, a fall general engineering picnic with Gamma Epsilon, a dual secondary field night and alumni mentoring program night, résumé night, cover letter night, disk sales, and a large engineering society gathering at TK Wendl's, a sports bar complex.

ISGE also has decided to sponsor intramural teams. To date, the intramural team ISGE Generals are 1-1-0. Overall, the members of the Illinois Society of General Engineers have renewed their interests in the activities and direction of the society and helped make the start of this academic year a great one.



## Alumni Back on Campus to Impart Wisdom to GE Students

GE 291, General Engineering Seminar, is a required class that teaches life skills and leadership topics to all graduating seniors. This past semester, several alums have assisted in the class by coming to campus to lecture the students on a variety of issues. Among the speakers were Paul Rimington, GE 1967, Diemasters Manufacturing Inc., who spoke about the valued employee; Dan Krueger, GE 1987, Andersen Consulting, who spoke on effective presentations; Jeff Morris, GE 1970, TPI, Inc., entrepreneurs and patents; and Julie Fermanek Jewell, GE 1987, Leroy Hendricks, GE 1978, Dianne Husby, GE 1987, Myron Bernard, GE 1956, and Fred Jewell, GE 1987, who participated in a panel discussion on career paths for GEs. We appreciate these alums taking time from their busy schedules to come to campus and meet with our students. If you are interested in coming to campus to speak to a class, please contact Maureen Krauss, Alumni Relations.



## GE Happy Hour—A Good Time Was Had by All

Dick's Last Resort in downtown Chicago was the scene of our fall 1995 GE alumni gathering. Several faculty members joined former GE students (including Dan Krueger, GE '87 and Larry Carpenter, GE '95, pictured above) for some snacks, drinks, and reminiscing. Please plan on joining us for our next event, which will be held in early spring. If you are a Chicago area alum, watch the mail for your invitation.





# Here's How to Support Your Alma Mater

In support of high-quality education in the Department of General Engineering, enclosed is my gift of:

\$1,000    \$500    \$250    \$100    Other \_\_\_\_\_

I have enclosed a check in the above amount made payable to:

UIF/GE unrestricted fund (lab improvements, student activities) 76620

Other GE fund \_\_\_\_\_

I authorize the U of I Foundation to collect my gift in the amount above through the credit card checked:

Visa    MasterCard   Card no.: \_\_\_\_\_   Expiration date: \_\_\_\_\_

Discover    American Express   Signature: \_\_\_\_\_

My company, \_\_\_\_\_, will match my gift with \$ \_\_\_\_\_.

I am enclosing my employer's Matching Gift form.

Name \_\_\_\_\_

Home address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Return this form and your check to:

University of Illinois Foundation  
PO Box 3429  
Champaign IL 61826-9916

When you use a credit card, you can fax your donation to 217-333-5577. Please send to the attention of Cash Receipts.

I understand that this gift is tax deductible as allowed by law.

RH6

## UI Alumni Association

As a member, you will receive the *General Engineering Alumni Newsletter* and UI Alumni Association publications. A substantial portion of your membership fee will be used to support GE alumni activities.

- One-year single membership—\$25
- One-year joint membership—\$30
- Three-year single membership—\$65
- Three-year joint membership—\$80
- Single life membership—\$350  
(installment plan, \$20 down, four yearly payments of \$95)
- Joint life membership—\$400  
(installment plan, \$20 down, four yearly payments of \$107.50)

Return this form and your check to:

UI Alumni Association  
227 Illini Union  
1401 West Green Street  
Urbana IL 61801

(Make check payable to the University of Illinois Alumni Association.)

Name \_\_\_\_\_ Social security number \_\_\_\_\_

Address \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

College \_\_\_\_\_ Department \_\_\_\_\_ Year \_\_\_\_\_

Spouse's name, if an alumnus/alumna (if female, include maiden name) \_\_\_\_\_

## Endowment Established in Memory of Caryn Casaz

The department was saddened to learn of the death of Caryn Casaz, GE 1993. Caryn was killed by a hit-and-run driver (who was later caught) in September while she was jogging near her home in metro Detroit. Since graduating from GE, Caryn had worked as a facilities planning test engineer, Global Test Operations, Advance Operations at Ford Motor World Headquarters in Dearborn, Michigan.

Many of Caryn's friends have been in touch with the department to reminisce about a remarkable young woman. Some of their thoughts follow:

"Caryn was a unique student of the general engineering program. Not only a remarkably intelligent and creative student, Caryn had abilities that reached far beyond her academic pursuits. Caryn excelled in everything she attempted, making friends everywhere she turned.

"Many of her friends realize that she was an angel to us, always able to make us feel important and laugh when it was most important. I've read that 'there is a finer realm where angels live which gives the



heart its Magic and the world its Art.' This is certainly true of Caryn.

"We all miss Caryn for the light she brought into our lives. Comfort comes in knowing that our angel is bringing light to another place and her never-ending spirit will live forever in all of us."

—Deanne Wapinski Kolath

"She was the most incredible person I've ever met. What you saw was what you got. She was trusting, kind, generous, loving, strong, and fun to be with. She worked hard for all the success she attained but making friends came easy. I never met anyone who didn't like her instantly. I'm proud to have known her as well as I did, and I miss her every day."

—Dave Pearson

"I was approached a couple of days ago to write a few words about Caryn Casaz, who was my roommate at UIUC for four years. This was more difficult than I ever imagined it would be. I have so many feelings of anger for that evil

man who so unnecessarily took Caryn's life and feelings of such great sadness and pain for all those, especially her family, who are suffering because of this loss. What can I say about Caryn that would convey to everyone how much she affected and is a part of my life?

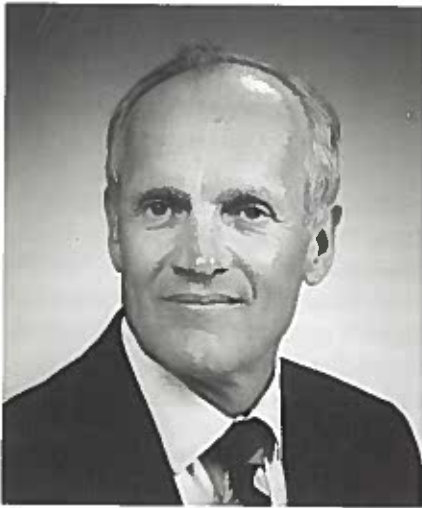
"To me she is always "Carynface" and I was always "Debhead." Carynface deserves full credit for those names that I cherish dearly. Those names became us. For her graduation, her cake said "Congratulations Carynface" and my e-mail login was debhead. Everyone knew us this way. Caryn was the funniest, wackiest, and goofiest person I will ever have the pleasure of calling my friend."

—Debbie Thomas

"Caryn always had an inviting, friendly smile and willingness to help others. The activities like Society of Women Engineers, social chair of Ford's University Advisory Committee, and Ford's Runner's Club that Caryn involved herself in reflected her cheerful personality and desire to contribute to our success. Caryn is missed by all the people she worked and played with at Ford Motor Company."

—Gregory Reynolds

Caryn's family and friends have established the Caryn Casaz Endowment, to be awarded as a scholarship annually to a member of the Society for Women Engineers at UIUC. If you are interested in contributing to the endowment fund, contributions can be made by using the Donor Form on page 9 (please specify Caryn Casaz Endowment). The department, like Caryn's family and friends, feels the loss of such a promising young woman.



## Note from the President

In our last issue, I discussed our new organization and membership in the Alumni Association. I'm happy to report that the new organization is well underway, and we had our first meeting with the new advisory board in December 1995. I would also like to announce that our alumni membership is now at 40%, which is greater than any group except the Department of

Aviation, which is up 48%. I don't think that we should be satisfied until we get our paid-up membership above the pack. The department sends most newsletters to all members, whether or not they are paid, but you are missing out on other Alumni Association publications if you do not keep your dues current.

I would like to take the opportunity to talk to you about another event that is taking place at the university at this time. This is "Campaign Illinois," which is in the process of raising \$1 billion for the University of Illinois Foundation. The main reason for this campaign is that the state of Illinois no longer supports the university to the extent that will assure the excellence we have enjoyed in the past. The thrust of the campaign is for endowments that will provide chairs, professorships, and scholarships to maintain the quality of instruction and of students that most of us experienced. In actuality, state support is about 16% of the College of Engineering budget. A major portion of this campaign will come from "large donors," but in a campaign this large, a lot of small donations can make a significant impact. If the donations are specified for a department or program, they can make even a greater impact.

I like to think of what my time at the university was worth to me, both professionally and personally, and what it cost me relative to that and to what it costs today. If you feel as strongly as I do, you might consider making a donation to the department to go towards a chair, professorship, or scholarship under the umbrella of GE alumni. If we get enough people carrying rocks, we might build the Great Wall of China.

Sincerely,

Dick Reynolds, GE '53  
President, General Engineering  
Alumni Constituent and  
Industry Advisory Board

## Alumni Updates

### 1920s

**George A. McCammon '26** George is retired and is now residing in Springfield, Illinois.

### 1930s

**Louis H. Arning '33** Louis passed away on August 7, 1995.

**M. Norman Nolling '33** Norman passed away this past June in Rockford, Illinois. He retired from Allied Fiber and Tool as president/general manager in 1979.

**Eugene Harold Pietsch Sr. '38** Eugene is 80 and retired after owning a mechanical engineering business in Des Moines, Iowa, for 25 years. He and his wife, Dorothy, are raising their two granddaughters and live in Winter Park, Florida.

### 1940s

**Jim Palm '47 and John Palm '47** Identical twins Jim and John celebrated their 50th wedding anniversaries on July 10, 1995. They are married to sisters Marilyn Erickson and Kathryn Erickson. These brothers entered the army together, attended officer's candidate school together, and graduated from the U of I together. After graduation they owned and operated Rockford Engineered Products in Rockford, Illinois, for 40 years.

### 1950s

**Laurance Staples Jr. '56** Larry is Vice President of L.S. Staples Co. in Prairie Village, Kansas.

**Dennis Paul Galle '58** Dennis retired from Commonwealth Edison Co. as vice president of nuclear operations. He is currently providing executive management consulting services to the nuclear power industry and resides in Mokena, Illinois.

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## Alumni Updates

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### 1960s

**Robert D. Leonard Jr. '64** Robert recently had an article titled "Selection and Maintenance of Transmission Lines" published in the April 1995 issue of *Broadcast Engineering* magazine. He is the product manager-broadcast transmission line products for the Andrew Corp. in Orland Park, Illinois.

**Ronald J. Kessner '65** Ronald is employed at Carrier-North Florida as a general manager.

**Lois B. Roberts '66** Lois recently celebrated the 20th anniversary of her business: Lois Roberts Consulting Engineers in Westport, Connecticut. Her daughter graduated from college this year.

**Willie Morris Dean '67** Willie is employed by General Electric in advanced quality/sourcing engineering. He resides in Schenectady, New York.

### 1970s

**Samuel E. Eskridge '72** Sam has become a professional engineer in the state of Connecticut, and is employed as a manufacturing engineer at GE Electrical Distribution and Control in Connecticut. His wife, Sandra, runs the Carl Perkins Vocational-Technical Grant Programs at Gateway Community-Technical College in New Haven. Their children, Michael and Sonya, are Honor Roll students at Brantford Intermediate School.

**Bradley O. Holmberg '72** Brad recently accepted the position of vice president at Testing Engineers, Inc., a geotechnical and materials consulting firm in northern Illinois. Brad's wife, Ellen, is a registered pharmacist with a local pharmacy;

his son, Eric, attends UIUC, training to become a professional pilot; and his daughter, Kate, is a freshman in high school.

**Louis Joseph Mancini '72** Louis is employed as an executive engineering representative with United Airlines in San Francisco, California.

**Kathryn A. Davis '74** For more than three years Kathryn has been an independent marketing consultant in New York City for lawyers, accountants, engineers, architects, and other professional service firms and professional associations. She has recently diversified and is now the booking agent for legendary jazz saxophonist, Jimmy Heath and his 19-piece big band.

**Thomas K. Fleming '74** Thomas married Deborah A. Werner in December 1994 in Boston. Shortly thereafter, they moved to Jacksonville, Florida, where he is the president of Petro Development, a division of Petro Distributing, Inc.

**Kenneth M. Grachan '75** Ken works for Allied Signal, Inc. in Olathe, Kansas, as a senior systems engineer.

**Mark A. White '76** Mark has worked with Arch Mineral Corp. since January 1978. In June 1995 he transferred to the Arch of West Virginia division as president.

**Gary L. Hicks '77** Gary is employed as a project manager with Formtek, Inc. in Palo Alto, California. He resides in Fremont.

**Cathy L. Ward '78** Cathy recently graduated from Northwestern's J.L. Kellogg Graduate School of Business with an MBA. She is employed at Honeywell in San Francisco.

**Ralph Thomas Wakerly '79** Ralph has published a book distributed by the American Hospital Association titled *Community Health Information Networks*. He is employed as the national director for First Consulting Group in Chicago and resides in Downers Grove.

### 1980s

**David L. Boldt '80** David graduated in May 1995 with an MBA from Ball State University. He is now employed as a senior staff engineer at the Gibson Generating Station for Cinergy in Owensville, Indiana.

**J. Brian Galley '80** Brian has relocated to join the American National Can Co. in Neenah, Wisconsin, as an environmental engineer.

**Commander John C. O'Connor '80** John is employed by the United States Navy. He is the officer-in-charge of Naval Aviation Depot Operations Center European Repair and Rework Activity in Naples, Italy.

**Brian E. Brutcher '81** In 1994, Brian received the Baxter Technical Corporate Award for pericardial heart valve design/manufacturing team. In 1995, he received the Baxter Special Honors Corporate Award for novaeor conduit heart valve for novaeor left ventricular assist device. He and his wife, Bonnie, have been married for 12 years and have two sons, Nathan, 10 and Aaron, 6. He is looking for a special deal on a new Cadillac from Dwight Woodbridge, GE '80!

**Michael Kilkenny '81** Michael is vice president-sales for Taylor Forge Engineered Systems, Inc. and resides in Leawood, Kansas.

**Lisa R. Perenchio '81** Lisa is employed as the enforcement unit chief of the Underground Injection Control Section for the U.S. Environmental Protection Agency in Chicago. She was married to Jim Weihsmantel in June 1994.

**Roger H. Stein '81** On January 1, 1995, Roger was promoted to shareholder (partner) in the Chicago Intellectual Property Law Firm of Wallenstein & Wagner, Ltd. He specializes in patents, trademarks, copyrights, trade secrets, and unfair competition. He and his wife, Jill A. Deutsch, reside in Wilmette, Illinois.

**Pete Furman '82** Pete has been promoted to project manager in the Advanced Systems Division at MTS Systems and resides in Eden Prairie, Minnesota.

**Timothy J. Nolan '82** Timothy would like to announce the birth of his son, Samuel Richard, born February 27, 1995. He weighed in at 9 lb 5 oz and was 21 in. long. He and his wife Karen (Weingantz) Nolan BSIE '82 and their son live in Grafton, Wisconsin.

**Julie Anne (Chalden) Evans '83** Julie is employed by the McDonald's Corp. as an independent marketing research consultant and resides in Glen Ellyn, Illinois.

**Susan Galli BSGE '83, MSGE '85** Susan has taken a new position as program manager for Sun Microsystems in Fremont, California.

**Jordan A. Greene '83** Jordan has abandoned the nuclear power field he has supported for the past 12 years and now works to reduce electric and fossil fuel demands in the southeastern New York region public sector. He has recently been seen on nationwide television as a back-up singer to Patti LaBelle, on PBS's Great Performances, "Some Enchanted Evening—A Salute to Oscar Hammerstein," and continues to sing in concert series in New York's Carnegie Hall.

**Fred Bell '84** Fred is a regional sales manager for Molex Inc. in Lisle, Illinois.

**Kevin Albert Kothe '84** Kevin married Doris Louise Moldenhauer of Springfield in August 1995. Kevin works as a civil engineer for the city of Bloomington, Illinois.

**Kevin Krak '84** Kevin is the vice president-operations for Gallant Construction in Marengo, Illinois.

**David L. Lukens '84** David married Mercedes E. Fioretti, an Argentine citizen, on February 25, 1995, in Buenos Aires, Argentina. He recently received the Flame of

Excellence Award for Professional Achievement from ABB CE Services Inc. for co-authoring of a recent professional paper. He and his wife reside in Rantoul, Illinois.

**Glen Mori '84** Glen has taken a new position as assistant manager for PVD contamination reduction for Applied Materials in Santa Clara, California. He is married and has a three-year-old daughter.

**Todd P. Sheppelman '84** After receiving his MBA from Stanford, he and his wife Cindy moved to Luxembourg for two and a half years, where he was chief engineer for Delco Remy European Operations. They returned to the U.S. in November 1994 when Todd became marketing manager for worldwide engine management systems for AC Delco Systems Division of G.M. On April 1, 1995, he was promoted to director of program management at Delphi Interior & Lighting Systems. Todd and his wife now reside in Clarkston, Michigan.

**Warren James '85** Warren joined his father's firm, James Companies of Illinois, in 1987. The company designs and builds homes in the Chicago area.

**Tim F. Kalafut '85** Tim is employed by the Saturn Corp. as a supplier development team leader. He resides in Franklin, Tennessee.

**John Coronado '86** John received his Master's of Engineering (Civil Engineering) from the University of Florida in April 1994. He recently married Lisa McLain, a BS Environmental Engineer from Gainesville, Florida, and currently works as a public works officer at the Naval Air Facility in Washington, DC.

**Robert Macchia '86** Robert wed Donna Segretto of Chicago in July 1995. He is employed by Alkco Manufacturing in Franklin Park, Illinois.

**Carol Ann Vician '86** Carol and her husband, Mark L. Feingold (BS AAE '85) recently welcomed their first son, Gregory Justin, into the world on April 8, 1995. She is employed in the Business Unit Resource - Processing Department for Kellogg Co. in Omaha, Nebraska.

**Glenn F. Balog '87** After traveling around the world for six years, Glenn returned to the University of Illinois for a year of graduate school. He is currently the public works officer and officer in charge of construction for a Marine Corps base in Barstow, California.

**Christine Diane (Condor) Howell '87** In April 1995, Christine married David Howell. She was recently promoted to manager technical staff at AT&T in Columbus, Ohio.

**Sharon (Louie) Ohlson '87** Sharon is now the healthcare market manager for Landis & Gyr Powers, Inc. in Hayward, California. She is a member of the California Society of Healthcare Engineering and the national American Society of Healthcare Engineering.

**Timothy S. Solarz '87** In 1994, Timothy formed a corporation and bought a Mail Boxes Etc. franchise. The business opened in March 1994 in Algonquin, Illinois, and he currently owns and manages the business.

**Dale N. Ellingson '88** Dale obtained his PE license in October 1993. He left Dames & Moore in December 1994 after spending two years at superfund sites in New Jersey. He is presently preparing plans and specifications using AutoCAD skills learned from the

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## Alumni Updates

*continued from page 13*

GE Department for United Analytical Services, Inc. in Hillside, Illinois. He and his wife are expecting their first child in February 1996.

**Robert L. Erickson '88** Robert was married to Sharon O'Neill (BSME '90) on May 20, 1995, in Chicago. He is employed as a controls engineer for Healthstar Pharmaceutical Services Inc. in Riviera Beach, Florida.

**Jacquelyn Sue (Beller) McGroarty '88** Jacquelyn is a new business development consultant for Johnson & Johnson Corporate Networking & Computing Service. She lives in rural New Jersey with her three-year-old daughter Murphy.

**Kristin L. (Hausler) Williams '88** Kristin is employed as an account engineer with Commerce & Industry Insurance Co. in Chicago. She resides in Yorkville, Illinois.

**Brad C. Bauman '89** Brad was recently hired by B.R. Danti, Inc. as a controls/design engineer. He is married to U of I alum Lam Lee. Brad and Lam reside in Stow, Massachusetts.

**Liz Houtz '89** Liz is employed by Körber-Stiftung in Hamburg, Germany.

**Paul A. Kalafut '89** Paul is a district sales engineer at The Torrington Co. in Miamisburg, Ohio.

**Jim Chris Stamatopoulos '89** Jim is employed by ComEd as a customer project engineer-northern region and resides in Carol Stream, Illinois.

### 1990s

**Erick Lee Duncan '90** Erick was married to Maria Elizabeth Arcila, a doctoral candidate in counseling psychology at the University of Iowa, in June 1995. They reside in Danville, Illinois.

**Christopher W. Grimes '90** Christopher is the plant manager for the Rebrig Pacific Co. in Gurnee, Illinois.

**James M. Frake '90** James is the president of FCI Solutions in Houston, Texas.

**Frederick L. Ingoldsby '90** Frederick is employed by Western Atlas International as an open hole operations manager in Houma, Louisiana.

**James Lee '90** James is a resident in diagnostic radiology at the University of Chicago Hospital. He received his MD from Northwestern University Medical School in June 1995.

**John A. Marlott '90** John received a JD with high honors from George Washington University in 1995 and is a patent attorney at Jones, Day, Reavis, & Pogue in Chicago.

**James Edward McNelis '90** James is employed as a design engineer by Machined Products Co. in Skokie, Illinois.

**Alison E. Millerick Lane '90** Alison is employed as a business manager for Clean Air Engineering. She is working on her master's in environmental engineering at the Illinois Institute of Technology and resides in Palatine, Illinois.

**Evanthia Nafpliotis '90** Evanthia married Michael J. Coleman (BS Finance) on February 11, 1995. She is employed as a product specialist by Silvon Software and lives in Niles, Illinois.

**Petra Sobczak '90** Petra is an ASQC certified quality engineer and is employed by Knowles Electronics as a senior quality engineer. She resides in Downers Grove, Illinois.

**Stephanie Ann (Connolly) Vives '90** Stephanie recently transferred from Ford of France where she was a quality engineering supervisor, to Ford of Germany, where she is a financial engineer.

**Daniel J. Block '91** Dan is currently a graduate student in the Department of General Engineering at UIUC.

**Chad L Boeding '91** Chad is an engineering market specialist of electronics for Praxair, Inc. in Chicago.

**Lisa E. Boreland '91** Lisa is currently working on a SACM (Superfund) site in Iowa, removing chlorinated solvents from soils and groundwater. She is employed by Terra Vac, as a subsurface remediation specialist and lives in Downers Grove, Illinois.

**Paul R. English '91** Paul is a test engineer employed at Caterpillar, Inc. in Mossville, Illinois.

**Seth W. Flanders III '91** Seth was married in June. He and his wife, Holly, moved to Washington, DC, in July where he began a job as operations research analyst with Klemm Analysis Group.

**David J. Meyer '91** David was married in August 1992 and he and his wife had a son in April 1995. He finished his pilot training for the U.S. Air Force in February 1994. He is currently a part-time pilot in the Illinois Air National Guard flying the KC-135E Stratotanker. He also works as a development engineer for Navistar International and lives in Geneva, Illinois.

**Steven Patrick Seaney '91** Steven is employed by Caterpillar, Inc. in Joliet, Illinois, as a hydraulic systems design engineer.

**John Acree '92** John works for Lamac Engineering Co. in Mt. Carmel, Illinois, as an environmental engineer.

**Karen S. Bender '92** Karen is a production information analyst for Archibald Candy Corp. She lives in Chicago.



**Alexander Weng Fong '92**

Alexander is employed as an assistant English teacher by Miyagi Prefectural Board of Education in Shiogami City, Miyagi Prefecture, Japan.

**Jon Edward Hendrickson '92**

Jon is employed by Sears Merchandise Group as a systems analyst. He resides in Schaumburg, Illinois.

**John Robert Kerr '92** John is employed by AIPT/IAESTE United States and is living in Ellicott, Maryland.

**Brian Daniel Rees '92** Brian was recently married to Kimberly Eyermann, a 1993 graduate of the College of Education at the UIUC. He is employed at Intel in Chandler, Arizona, as a process engineer.

**Jason Alan Struthers '92** Jason is employed by Parker Hannifin Corp. as a product manager-electro-mechanical. He is living in Medina, Ohio.

**Dwight T. Todd '92** Dwight will be attending the University of Iowa this fall to pursue an advanced degree in biomedical engineering.

**Harry D. Almeida '93** Harry was recently married to Ellen Julia Daniels, also a UIUC graduate. He is employed by Motorola and he and his wife reside in Woodstock, Illinois.

**John Keagle '93** John is back in the cockpit after working in the air force's TQM program during 1994. He is currently stationed at McChard AFB in Washington.

**Jeffrey Cantrill '94** Jeffrey is employed as a sales engineer for AEC, Inc. in Wood Dale, Illinois.

**Jared Alan Howerton '94** Jared is employed by H & H Industries, Inc. in Elmwood, Illinois, as a finance engineer.

**Timothy Mansfield '94** Timothy is employed as a project coordinator for welding and assembly systems by Detroit Center Tools in Detroit, Michigan.

**John Michael Williamson '94**

John is employed by Komatsu Dresser Co. as an engineer in new product development. He resides in Peoria, Illinois.

**Robert Barrett '95** Robert is working as a PC support technician at Resurrection Hospital.

**Brian Richard Binder '95** Brian was married in July of this year to Nicole Lynne Hansen, also a UIUC graduate. He is employed as an environmental engineering consultant at Woodward Clyde in Maryland Heights, Missouri.

**Jennifer S. Brooks '95** Jennifer is a highly protected risk engineer for Kemper National Insurance in Chicago.

**Brian Buchheit '95** Brian is working at Meyer-Korte Construction Co. in Highland, Illinois, as a project manager.

**Michael T. Burzawa '95** Michael is a product development engineer for MacLean-Fogg Co. in Wheeling, Illinois.

**Larry Carpenter '95** Larry is a design engineer for MPC Products Corp. in Niles, Illinois.

**Santiago Correa-Harker '95** Santiago was recently employed by Booz, Allen, & Hamilton in Bogota, Colombia.

**Christopher W. Griffin '95** Christopher is employed by Parker Hannifin Corp.-Motion Control Group as an electromechanical territory manager. He is living in Irvine, California.

**William L. Crouch '95** William is employed as an engineer for Sargent & Lundy in Chicago.

**Tamara A. Hawkins '95** Tamara is working as a sales engineer for MAGPOWR-Magnetic Power Systems in Fenton, Missouri.

**David Lowe '95** David is an associate consultant for Keane, Inc. out of Batavia, Illinois, and plans to relocate to Denver, Colorado.

**Chris Marach '95** Chris is working as a design engineer for Power Packer/Applied Power in Butler, Wisconsin.

**Rocio Moreno '95** Rocio is working for The Filtration Group in Joliet, Illinois, as a project coordinator/production supervisor.

**Tim Phillis '95** Tim is an engineer/motion control specialist for the Herren Co. in Rock Island, Illinois.

**Dorie Ann Stec '95** Dorie was recently married to Karl Phillip Geissler. She is currently working on her master's degree at UIUC.

**Peter Vadhanasindhu '95** is working for Howden Fan Co. in Springfield, Illinois.

**Chris K. Wyatt '95** Chris is beginning the study of medicine at Southern Illinois University.

## Evans Announces Retirement

Bob Evans, who has served as editor of the General Engineering Alumni Newsletter for the past 10 years, has announced his retirement from that post. Bob will continue to work for UIUC basketball coach Lou Henson as well as travel around the country visiting his children and grandchildren. Thank you, Bob, for your many years of hard work and dedication in bringing the department story to our alums. GE will miss you!

## Fraser Award Topped Off

The department was pleased to receive a generous donation from Edward and Elsie Fraser that will allow the Fraser Award to remain one of the department's prestigious awards. The endowment for the award, which was initially set up by the Frasers in 1963, allows the department to honor one outstanding senior each year. By direction of the Frasers, the selection is based on scholarship, activities

in technical societies, membership in professional and honorary organizations, achievement in technical writing, faculty evaluation records, and all-university extracurricular activities.

Edward (CE) and Elsie (LAS) Fraser both graduated from the University of Illinois in 1939. Their interest in the Department of General Engineering was sparked

when their son William attended and graduated from GE. Edward is retired as the Vice President of Chicago Bridge and Iron Company. Through the years, many GE students have been honored to receive the Fraser Award, and through their continued generosity, future GE students will be able to strive for the recognition that the Fraser Award bestows.



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