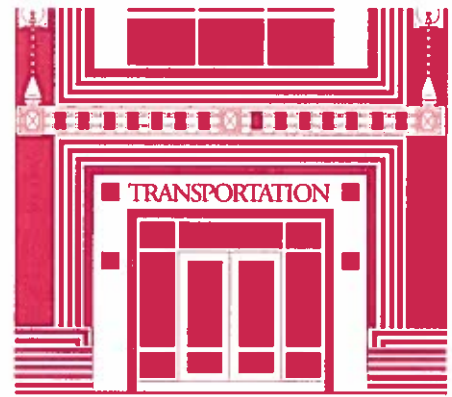


University of Illinois at Urbana-Champaign
**General Engineering
Alumni Newsletter**

Volume 42, Number 1 • Winter 2001



Emeritus Professor Jerry Dobrovolny Launches \$50,000 Challenge!!

In 1987 the Jerry S. Dobrovolny Professorship was established as a means of recognizing and paying tribute to Professor Dobrovolny for his many accomplishments on behalf of the Department. This fund was also established to address the increasing competition for outstanding faculty members and the need to recruit and retain faculty through named appointments such as the Dobrovolny Professorship. A number of alumni and friends have contributed to this fund and we thank you for your past support. Professor Dobrovolny has also

generously contributed to this Fund, with a total gift commitment in excess of \$275,000!

Professor Dobrovolny has now made another generous commitment to the Department, this time through an offer to match additional contributions for the Dobrovolny Professorship Fund up to a total of \$50,000! This matching challenge will apply for any new gifts that are received during this fiscal year (July 1, 2001 through June 30, 2002) up to a total of \$50,000. Professor Dobrovolny challenges alumni and friends of the Department to meet this new commitment, so that we can move closer to being able to name the first Jerry S. Dobrovolny Professor in his lifetime. We hope to use this Professorship to recruit the first named faculty holder in Entrepreneurial Engineering, which fits very well with our mission, with Professor Dobrovolny's own entrepreneurial spirit, and with the leadership he provided to many alumni and colleagues who have also gone on to be very successful entrepreneurs.



*Professor
Dobrovolny*

Contents

- 2 From Harry Cook
- 4 Carver Charitable Trust increases its landmark fellowship program
- 5 News From the Alumni and Industry Advisory Board
- 6 Awards
- 13 General Engineers Receive College Honors
- 14 Faculty News
- 16 New Sargent and Lundy Endowment Fund
- 16 The Technology Entrepreneur Center
- 20 GE 342 Projects
- 27 Alumna Draws on Campus Experiences to Save Readers from E-Mail Overload

Professor Beck Receives National Honor

Professor Carolyn Beck was selected by the Department of the Navy as an Office Naval Research Young Investigator. This program recognizes scientists and engineers who show exceptional promise for outstanding research and teaching areas. Young Investigators "are considered to be the best and brightest young academic researchers this country has to offer." (Jay M. Cohen, Rear Admiral, U. S. Navy Chief of Naval Research)

Dr. Beck is one of 26 investigators selected for awards from an outstanding group of 191. She emerged successfully from a very competitive pool because of her academic achievements, her ability to contribute to the strength of the Nation's research and development, and the commitment to her expressed by university administrators. Professor Beck will receive up to \$100,000 per year for three years to complete her research. The U. S. Office of Naval Research has awarded a total of \$8.5 million through the Young Investigator Program.



*Professor
Carolyn Beck*

continued on page 3

Department of General Engineering
117 Transportation Building
104 South Mathews Avenue
Urbana, IL 61801
Phone: 217-333-2731
Fax: 217-244-5705
Home page: <http://www.ge.uiuc.edu>

Department Head
Cook, Harry E.

Associate Department Head
Pleck, Michael H.

Professors

Conry, Thomas F.
Davis, Wayne J.
Goldberg, David E.
Kuznetsov, Edward N.
Medanic, Juraj V.
Palmore, Julian Z.
Price, Raymond L.
Reis, Henrique
Spong, Mark W.
Thurston, Deborah L.

Associate Professors

Burns, Scott A.
Hall, W. Brent
Moeinzadeh, Manssour H.
Sreenivas, Ramavarapu S.
Srikant, Rayadurgam
Wozniak, Louis

Assistant Professors

Alura, Narayan
Beck, Carolyn
Bullo, Francesco

Adjunct Professors

Carnahan, James V.
Ruhl, Roland L.
Vojak, Bruce A.
Wilson, Stewart

Adjunct Associate Professor
Strauss, Mark G.

Lecturers

Carnahan, James
Leake, James

Adjunct Lecturers

Mottier, Charles H.
Wildblood, Harry S.
Woodard, Bill D.

Academic Professionals

Carmody, Kevin R.
Dimit, M. Angela
Elkins, Randall K.
Hirschfeld, Laura
Wildblood, Harry S.

Staff

Eiskamp, Donna J.
Hilligoss, Debra L.
Hills, Peggy R.
Marshall, Sheena
Reed, Carolyn
Tyler, Brenda
Wyatt, Scott E.

Alumni Relations-Newsletter Editor

Angela Dimit
Phone: 217-333-0140
Email: m-dimit@uiuc.edu

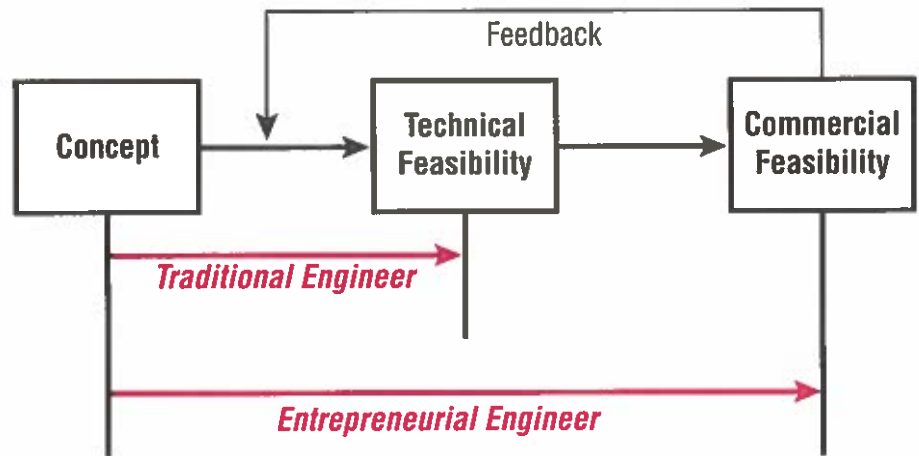
From Harry Cook

The Entrepreneurial Engineer

The faculty of the General Engineering Department are in the process of shaping and defining a new engineering mindset, that of the "entrepreneurial engineer." We see this engineer working in both large and small companies, the distinguishing feature between the traditional engineer and the entrepreneurial engineer being their perceptions of the end-point in their professional tasks. The traditional engineer is highly skilled at taking a concept to a demonstration of technical feasibility. The entrepreneurial engineer will be able to take a new concept not only to technical feasibility, but beyond to commercial feasibility. The comparison between the two is illustrated in the figure below:



Harry Cook



There are three reasons we are doing this. First of all it fits the department's mission from the Board of Trustees to "focus on design and the business side of engineering." The second reason stems from the fact that engineers from all disciplines are typically not prepared for the business environment they will encounter upon graduation. The problems they will work on will have interesting, challenging technical content, but in the end, a good business decision will have to be made in the face of incomplete information, stiff competitive pressure, and a sharply limited time-span for action. The third reason is perhaps the most important of all. It will make engineers better in their traditional role. Their keen understanding of the needs of their customers and the financial requirements demanded by commercial feasibility will feed-back and illuminate the right pathway toward technical and commercial feasibility. In doing so they will be practicing the skills of the entrepreneurial engineer!

As alumni, your feedback, comments, and input are always welcome. I would enjoy hearing from you, my email address is h-cook3@uiuc.edu.

Challenge

continued from page 1

In addition to supporting this particular fund, Professor Dobrovoly also challenges you to support the Department in general by investing financially in our continued success. As you read in the last Alumni Newsletter, our response to the \$100,000 challenge match was tremendous and we thank all of you who responded to this challenge for your generosity. However, even with the response to this challenge, the percentage of alumni supporting the Department is only @ 4%. This is in comparison with an average of @ 12% for the College of Engineering and the University of Illinois overall. General Engineering alumni lead the College in many respects, not the least of which is in terms of Alumni Association Membership. In fact, with 34% of our alumni maintaining membership in the Alumni Association, we lead the campus with the highest percentage of members compared to all other campus units. Professor Dobrovoly challenges you to help us move the percentage of alumni *contributing* to the Department to where it should be, to at least 12% if not higher. If you haven't contributed to the Department in the past, please consider a donation toward the Jerry S. Dobrovoly Professorship to ensure that this \$50,000 challenge match is met. At the same time, you will be helping us to increase the percentage of alumni who support the Department.

Please use the enclosed insert to direct your gift to the Jerry S. Dobrovoly Professorship Fund challenge as well as to any other fund within the Department. For more information about different means of giving and applicable tax benefits, please contact Renée Mullen (phone: 217-244-7716, e-mail: rmullen@uiuc.edu) or Angie Dimit (phone: 217-333-0140, e-mail: m-dimit@uiuc.edu)

From Your Past Board President

To all of the GE Alumni, Students and Board members.

I wish to express to you how wonderful the last two years have been acting in the capacity of the President of the General Engineering Industrial Constituent Alumni and Advisory Board. It has been exciting to be a part of the transformation of the board from an advisory committee to an actively involved group of individuals. I was fortunate to follow Tom Prickett, who instituted the Engineer in Residence program by both financially funding and personally donating his time to make the program work. I was also fortunate to have a Board comprised of engaging people, who appreciated the accomplishments of the G E Department and who visualized the potential of taking the department to the next step (i.e. supporting the concept of the Technology Entrepreneurial Center). It was this group of women and men, who not only supported the suggestion to develop subcommittees to grow our level of involvement, but provided the additional time and personal commitment to make them work. We now have 6 standing committees providing additional counsel to the department and the students.



Jim D'Orazio

Then there are the alumni, who have supported the department. Your generous participation in the Challenge Match, your volunteering to fill open positions on the Board, your participation at Jobapalooza, the support of the Engineer in Residence program and the Mentoring program, are examples of just how involved our alumni are.

And what can I say about the support of the Department itself. Harry Cook, Tom Conry, the one and only Jerry Dobrovoly, my guardian angel, Angie Dimit, who kept me on track and out of trouble as well as the support staff members who have been the behind the scenes...all have been more than supportive. Last but not least, the G E students. What a great group of young women and men who have invigorated me each step of the way.

I know my successor Dan Krueger will bring further innovation and energy to the Board and will welcome your support.

Thanks again for the privilege of being your President.

UIAA Online Alumni Directory

The first phase of a new, searchable online alumni directory, accessible to Alumni Association members only (an important new membership benefit!) was launched in mid-September. Alumni Association members can now access available contact information about fellow UI alumni on a per-name basis (regardless of membership status). Future, on-going development of the directory will allow for members to update their own contact information and search on multiple criteria. Special care has been taken to provide security to users and to discourage any commercial usage of the directory. To access the online directory, visit <https://www.uiadirectory.org>. Please note that the protocol at the beginning must be included since it is "https" instead of "http."

If you have questions about the new online directory, please contact Susan McKenna at mckenna1@uillinois.edu.

From Your New Board President

Dear Fellow Alumni and all who have an interest in GE's success – Faculty, Students and Industry:

General Engineering today is as industry-relevant and vibrant as at any time in memory. Our Department is grooming creative, disciplined thinkers — and leaders — for tomorrow's industry. Our faculty, administration and staff help transform the lives of some of our nation's brightest students, and their research is a credit to our profession. We are well positioned to do even more.

I would like to highlight several key areas where I believe the GE Board can provide a valuable "assist" to the Department in the coming years:

- **Department Strategy:** What does GE aspire to be? Do our capabilities and resources allow us to realize our aspirations? What immediate and long term plans are needed?
- **Growth:** What levels of funding are needed to realize our immediate and long term aspirations? What role can alums play?
- **Operations:** How can we best recruit, retain and ultimately place the most well-rounded students? What about our facilities, equipment and supplies?
- **People:** How can we recognize, reward and retain the people that make GE happen — from Prof Cook through the faculty through the support staff?

Plan to hear more from your Board on these and other topics. Under the leadership of Jim D'Orazio, our most recent Boards have taken a more active role with the GE Department. Of note, several Board subcommittees are focused on specific improvements for the Department. My thanks go to Jim for his distinguished term as President, and to Tom Prickett as his predecessor.

As an alumnus (BSGE '87), as an interested family member (my nephew is Bill Krueger, BSGE '03), and as a member of industry, it is a privilege for me to serve you as a leader of your Board. If you want to make an impact for GE — please email at the address below.

Daniel P. Krueger
Partner
Accenture, LLC
daniel.p.krueger@accenture.com



Dan Krueger

Carver Charitable Trust increases its landmark fellowship program

In 1999 the Roy J. Carver Charitable Trust of Muscatine, Iowa, gave the University of Illinois \$2 million to establish the Carver Fellowships in Engineering. The 2000-01 inaugural class of Carver Fellows included eight of the College of Engineering's most outstanding graduate students. Pleased with the results of their gift, the Carver Trust has just announced an additional \$1 million gift to increase the number of fellowships beginning with the 2001-02 academic year.

"Some fellowships have a special status," said former dean William R. Schowalter at the inaugural banquet in February. "The Carver Fellows are destined to be known as the best research talent coming from one of the world's finest research institutions." Provost Richard Herman added, "Among our peer institutions, only the Yu Fellowships at Princeton approach the Carvers in scope, level of funding, and prestige."

The inaugural class of Carver Fellows includes Keli Christopher, Agricultural Engineering; Aaron Danner, Electrical and Computer Engineering; Robert Drost, Electrical and Computer Engineering;; Thomas Hafenrichter, Mechanical and Industrial Engineering; Christina Haley, Materials Science and Engineering; Helen Inglis, Mechanical and Industrial Engineering; Shane Ryoo, Electrical and Computer Engineering;; and Daniel Therriault, Aeronautical and Astronautical Engineering.

Engineering departments have the opportunity to nominate new graduate students each year. Carver fellowships are designed to support the recipients during their first year of graduate study, allowing them to investigate possible areas of dissertation research free from financial pressure.

Roy J. Carver, Sr., graduated from the University of Illinois in 1934 with a B.S. in general engineering. He went on to found several companies. During a visit to Europe in 1956, he noticed unusual retreaded tires on a car. The following year he purchased the North American rights to a method of topcapping tires and founded Bandag, Incorporated. Today Bandag is the world's largest producer of tire retread materials and equipment.

Mr. Carver died in 1981. His will establishing the Roy J. Carver Charitable Trust included the following words: "Mindful of all that I have received from society, it has been my long-cherished aim to devote a significant portion of my estate to charitable, educational, and scientific purposes." The College of Engineering for the second time has been the beneficiary of this generous man's vision.

News From the Alumni and Industry Advisory Board

Nine new members were approved for a three-year term on the GE Alumni and Industry Advisory Board at the spring meeting:

Tina T. Bishop

BSGE, 1983
MBA, University of Chicago, 1993
Engineering Group Manager-
Vehicle Architecture, General
Motors
Warren, MI

Christopher Daniel

BSGE '97
Manager, Cap Gemini Ernst &
Young
Chicago, IL

Kathryn A. Davis

BSGE, 1974
MSCE, 1975
MBA, Harvard, 1986
Marketing and Public Relations
Consultant, KADalyst
Productions
New York, NY

Brent Hall

BASc, Civil Engineering, University
of Waterloo, 1975
PhD, Civil Engineering, University
of Waterloo, 1979
Chair, GE 342
Champaign-Urbana, IL

Robert P. Hoffman

BSGE 1970,
MBA, University of Michigan, 1976
Milwaukee Design Center Site
Manager, Delphi Automotive
Systems
Oak Creek, WI

Deanne Kolath

BSGE '94
Principal Consultant, Price
Waterhouse Coopers
Dearborn MI

Gary L. Newton

BSGE, 1957
LLB, American University, 1960
(Retired) Chief Patent Counsel,
Chrysler Corporation (Daimler
Chrysler)
Semi-retired partner in Harness,
Dickey & Pierce P.L.C.
Troy, MI

Dennis Spice

AA, University of the State of New
York, 1974
BA, Eastern Illinois University, 1978
MBA, UIUC, 1985
Vice President, Open Prairie
Ventures
Champaign, IL

Harry S. Wildblood

BS, Biology, 1974
BSGE, 1985
MSGE, 1987
Executive Vice President, The
Training Channel
Coordinator, Project Design
Activity, Department of General
Engineering
Champaign-Urbana, IL

Officers for 2001-2001:

President:

Daniel Krueger '87
Partner, Accenture
Daniel.p.krueger@accenture.com

First Vice President:

Gerald Pine '69, MSGE '70
Principal Product Manager, Gas
Research Institute
Gpine@dsl.telocity.com

Second Vice President:

Michael Brunetto '77
Senior Manager, Wholesaler
Business Consulting, Anheuser
Busch, Inc.
Mike.Brunetto@anheuser-
busch.com

Alumni Directors:

James D'Orazio '75 (ex-officio)
Vice President and National
Director of Engineering, Grubb &
Ellis Management Services, Inc.
James.dorazio@grubb-ellis.com

Mary Beth Burke '87
Marybeth.burke@inil.com

Fred Jewell '87 MSGE '89
Associate Partner, Accenture
Frederick.w.jewell@accenture.com

Alumni Association Campus Alumni Advisory Board Representative:

Tom Prickett '60
Thomas A. Prickett & Associates
TAPmodels@aol.com

The mission of the Board is to advise the Department Head and Staff of the industry perspective relative to the curriculum, senior capstone design projects, research initiatives, and any other topics on which the Department can use the Boards' expertise and experience to better serve industry's needs. Anyone interested in serving on the Alumni and Industry Advisory Board is welcome to submit his/her name for consideration to Angie Dimit at m-dimit@uiuc.edu.

Want to receive your
newsletter by e-mail?

Send us your e-mail address
and start receiving the
General Engineering
Alumni Newsletter by e-
mail. Contact Angie Dimit -
m-dimit@uiuc.edu.

GE AWARDS

The Jerry S. Dobrovolny Award

Presented to a senior who has demonstrated outstanding leadership qualities and academic scholarship.

Kelly Renee Birdwell

Kelly's secondary field of concentration was Human Factors/Ergonomic Design. She graduated in December 2000 and now resides in Alviso, California where she is employed with KLA-Tencor Corporation. In 2000, she was honored as a Knight of St. Pat and received an Andersen Consulting Outstanding Student Award.

Kelly was active on Engineering Council on the Social Affairs Committee and as Vice President of Corporate Relations in 1998-99. In these positions she worked as liaison between Engineering Council and the Engineering EXPO Committee, organizing the Dean's Fall Picnic and the Knight of St. Pat Ball and serving as emcee for the Ball. As chair of the 1999 Engineering EXPO and Facilities/Banquet Chair the previous year, Kelly successfully coordinated one of the most visible corporate programs for the College of Engineering.

She led the Society of Women Engineers' Team Tech to a First Place Award at Engineering Open House in both 1998 and 1999, and went on to represent the University at the SWE National Conference as a member of the Boeing Team Tech Competition.

Kelly interned with Ford Motor Company Stamping Plant and participated in a 6-week intensive French Program in Nancy, France. Through this international program, she had the opportunity to work closely with a professor in mechanics of materials and present oral and written reports in French. On campus, Kelly was involved in Alternative Spring Break and

Intramural Bowling; she was a member of the University Concert Band and an I-Guide.

The Edward S. Fraser Award

Presented to the outstanding senior based upon academic accomplishments and leadership.

Sarah Lynne Quoss

Sarah was a member of the Elected Assembly of Illinois Student Government serving on the Appropriations Committee and the Transportation Committee. Additionally, as a member of the UI Student Senate she served on the Budget Committee and the Academic Calendar Committee. She was active in the Society of Women Engineers, Illini Pride, the Society of Business and Management Engineers, the Engineering Speaker's Bureau, and Engineering Advocates. As a senior she was President of ISGE and social chair of Gamma Epsilon. She started GEAR (General Engineering Admissions Representatives) and coordinated all student recruitment phoning activities.

Sarah coordinated Atius for her social sorority, Delta Zeta, and served as Activities Chair and Homecoming Chair. She was involved in Greek Intersarsity, Tau Beta Pi, and Rotoract where she tutored a seventh grade student. Additionally she was a member of Orgulla Latina America and the International Illini.

Sarah was inducted into Golden Key National Honor Society for seniors as well as Phi Eta Sigma and Alpha Lambda Delta freshman honoraries. She was on the Dean's List for the past five semesters. She received the Mildred Mattux and Lisle Abbott Rose Award last year and the Harris Bank Scholarship. She worked as an intern with Andersen Consulting, PriceWater-



Prof. Harry Cook congratulates Sarah Quoss of Glen Ellyn, IL, the 2001 winner of the Edward S. Fraser Award.

house Coopers, and MPC Products Corporation, and as a Mathematics Lab Assistant.

Sarah is currently fulfilling an international scholarship opportunity: the Binational Business Grant through the Fulbright Program granting her a one year internship and business studies in Mexico. She has accepted a position with Accenture.

The Randolph P. Hoelscher Award

Presented to a junior who has achieved exceptional scholarship, leadership and cultural breadth.

JoAnne Sheu Ying Wong

JoAnne has been active in the Society of Women Engineers in a variety of leadership positions including Corporate Liaison, Business Fashion Show Chair, "Be Professional" Conference Committee, and Regional Representative. She is currently Chair of the SWE Shadow an Engineer Program. Additionally, she is a member of the General Engineering Placement System Committee which coordinates the production of the General Engineering Resume Book and organizes Jobapalooza. JoAnne has served on various Executive Board positions in Gamma Epsilon. She currently serves as President of Hawaii Club and for two years has coordinated the Annual Luau, a

major production which includes dinner and programming for over 350 attendees. This event shares Hawaii's culture through authentic food, dancing, atmosphere, trivia and free gifts. She oversees the shipping of Hawaiian goods for the event and she coordinates the Hawaiian Dance practices for the program.

She advises "Hula performance" for community "Hawaiian themed" events at high school post-proms, church retreats, and local groups and is a Hula teacher performing with a hula "troupe" at various campus and community events.

JoAnne's Secondary Field of Concentration is Business Systems Integration and Consulting and she is pursuing an International Minor in Latin American Studies. In the summer of 1999 she participated in the culture and language program at CETYS Universidad, Ensenada, Mexico and over Spring Break this year participated in a mission trip to Aguaprieta, Mexico.

She is active with the Phillipine Students Association, Culture Shock (IUB), and Asiantation. JoAnne has received the UIUC Academic Achievement Scholarship, the SWE/Caterpillar Corporate Scholarship, and the Accenture Outstanding Student Award. She enjoys intramural basketball and soccer.

Robert a. Jewett Award

Recognizes the Junior student with outstanding leadership qualities.

Andrew Charles Vaughn

As a junior Andy served as President of Gamma Epsilon. He has been active in Alternative Spring Break for the past four years, serving as Site-Leader twice, Co-President, and Treasurer. He serves on the YMCA Board of Governors, the YMCA Student Board, and is a representative on the University



JoAnne Wong, Kaneohe, HI, receives the Randolph P. Hoelscher Award from Prof. Michael Pleck, Associate Department head.

YMCA Building Board and Donor Development. Andy enjoys Intramural Football with his Residence Hall and volunteers regularly at the Times Shelter.

Andy's secondary field is Robotics and Control Systems, and he is employed as a Research Assistant and Librarian in Illinois Genetic Algorithms Lab in the Department of General Engineering. He has also worked as a Project Engineer Intern at Packaging Technologies in Davenport, Iowa, and as an Inventory Control Assistant at C. E. Armstrong & Sons Industrial Supply in Moline, Illinois. He is a member of ISGE and serves as a student host to alumni and prospective students visiting the Department.

The Herbert J. Sprengel Award

Presented for the best balsa wood design project by a junior.

Benjamin David Rigby

Benjamin's winning balsa structure, according to Professor Edward Kuznetsov, was a well-executed, sturdy frame structure that stood head and shoulders above the competition. It achieved a load-to-weight ratio that was more than twice the average.



Ben Rigby, Johnsburg, IL, is presented the Herbert J. Sprengel Award from Prof. Edward Kuznetsov for his exceptional balsa structure.

The Mildred Mattux and Lisle Abbott Rose Award

Presented to two juniors based upon outstanding academic accomplishment, extracurricular activities, and cultural breadth.

Amanda Kay Bates

Amanda is a Chancellor's Scholar and active in the Campus Honors Program. She has been very involved in the Society of Women Engineers serving as a representative to the National Conference in 1999, Regional Conference Corporate Liaison, Mother's Day Banquet Co-Chair, "Be Professional" Conference Fashion Show Coordinator, and Mentor for elementary school students on science fair projects. She is active on Hall Floor Council and has served as Livability / Damages Chair at Illinois Street Residence Halls. She has participated twice in a Mission Trip to Mexico and a mission trip to Jamaica.

Amanda is also a member of Gamma Epsilon and active with her church youth group, volunteers at Cunningham Children's Home, and with Empty Tomb doing volunteer house repairs. She currently tutors high school students in math and science and enjoys harp lessons. Amanda is a GE scholar, received the Ford/SWE Scholarship, and the



Amanda Bates (L) of El Paso, IL, and René Passaglia (R) of Des Plaines, IL, the 2001 recipients of the Mildred Mattux and Lisle Abbott Rose Award.

Children of Vietnam Veterans Scholarship. She has been on the Dean's List consistently since Fall of 1998. Her secondary field is Engineering Administration.

Rene Paulette Passaglia

Rene has been active as an Engineering Tour Guide since Fall 1998 and has served as co-chair for the past three years. She has been an Engineering Learning Assistant, a volunteer tour guide at Illinois Street Residence Hall, and a member of I-guides. She regularly serves as a student host to prospective students and families and alumni visiting the Department. She has been active in the Society of Women Engineers, ISGE, and GEPS. She is a member of Phi Eta Sigma freshman honor society and the National Society of Collegiate Scholars. She is active in the Illini Life Christian Fellowship.

Rene has received the GE Scholar Award, the General Assembly Scholarship, the Lions Club Scholarship, and the Northwest Association of Women in Construction Scholarship. Her secondary field is Technology and Management and she has taken World Dance and Japanese Culture and Society. Rene has been on the Dean's List consis-

tently since Fall of 1998. She was recently honored by the College of Engineering as the recipient of the Andrea J. Culumber Award.

The Donald W. White Scholarship

A scholarship designed to encourage dedicated sophomore and junior students in General Engineering to pursue careers in the field of construction.

Stephen Andrew Meyer

Stephen's main area of interest in construction is site development. He has worked in topographic surveying, inspection, construction layout, traffic studies and computer-aided design. He also has experience in equipment operation, maintenance, carpentry, and construction through various jobs, volunteer work, and work on the family farm. Stephen has an excellent academic record and a strong interest in a construction career.

Peggy Helen Ho

Peggy's long-term goal is to "direct an engineering company that involves building significant structures." Along the way she sees herself getting a Ph.D. as well as an



Don White ('50) with Peggy Ho of Oak Brook, IL, the 2001 recipient of one of two Donald W. White Scholarships. Stephen Meyer of Hoyleton, IL, is the continuing holder.

MBA. This fall, Peggy will begin doing her junior-level courses a full year ahead of schedule. These include courses in structural analysis, project planning and economic decision-making, introduction to construction engineering, and stress analysis and failure theories. These will be followed by five more classes in her senior year emphasizing structural design and construction.

The Alumni Award for the Outstanding Student in General Engineering

The Alumni Award for General Engineering Students was established in 1996 by Thomas A. Prickett on behalf of the GE Alumni Board, of which he was President from 1997-1999. The award was established to recognize GE students who excel not only in their scholarship but leadership and citizenship as well.

This award fund has been set up with the hope of assisting promising well-rounded GE students who will become successful alumni. Alumni know best the many opportunities that are available for GE students. They wish to encourage as many students as possible to take advantage of the unique nature of the Department of General Engineering, which allows for the integration of diversity in technology, management, and education.

J. Benjamin Goodman

Ben is a junior in General Engineering with a secondary field of concentration in Business Systems Integration and Consulting. He is very active in the Office for Technical Consulting (OTCR), an Entrepreneurship Consulting Firm that performs services for the Corporate Community of Champaign-Urbana. He is the Project Manager, having completed two projects in E-commerce and Training and is now

working on a project with Busey Bank. This project deals with centralization/ decentralization of banking and e-banking procedures to ease their merging process. Ben serves as the Consultant on this project.

Ben was selected to participate in INSIGHT ILLINOIS, a premier leadership program founded by the Vice Chancellor for Student Affairs. He is a member of Alpha Lambda Delta Honors Society and a recipient of the UIUC President's Award Program Scholarship. He is also active with the Society of Business Management Engineers as Assistant Corporate Director and the Illinois Society of General Engineers as Engineering Open House Director this year. Ben volunteers his time as a student caller with GEAR (General Engineering Admissions Representatives), to welcome admitted freshmen to General Engineering and he regularly serves as a host to prospective students and families visiting the Department. He is currently President of ISGE.



Tom Prickett ('57) with Ben Goodman (C) of Naperville, the 2001 recipient of the Alumni Award for the Outstanding Student in General Engineering. Ben's sister Victoria, also a UIUC student, joined him for this special evening.



Prof. Brent Hall, Chair of the Awards Committee, congratulates Joseph Nowak of Midlothian, as one of the recipients of the 2001 Kenneth W. Hamming Award.

The Kenneth W. Hamming Scholarship

Presented on the basis of academic merit and demonstrated financial need.

Joseph Anthony Nowak • Anthony Mah Rotello • Jeremy Robert Shive

Marshall W. Tudor Scholarship

Presented to an incoming freshman with outstanding academic merit and demonstrated financial need.

Kathryn Kopren

Katie is an incoming freshman from MN graduating in the 97 percentile of her class and earning a 31 on her ACT.

The Mary Chow Scholarship

Presented to the outstanding female General Engineering Student based solely upon academic merit during the freshman year.

Karen Rae Hauck

Karen is completing her first year in General Engineering with a perfect 4.0 grade point average, making her the top female in her academic class. She is from Grayslake, Illinois.



Prof. Weichen Chow presents the Mary Chow Scholarship to Karen Hauck of Grayslake.

General Engineering Distinguished Service Award

This award is designed to recognize exceptional dedication, commitment, and personal contributions specifically within the Department of General Engineering. The award recipient(s) have made a significant, positive impact on the quality of the undergraduate experience over the past years and for future generations of General Engineering students.

Alumni Recipient: Michael Brunetto '77

Faculty Recipient: James Carnahan

Student Recipient: Jonathan Dolle



Prof. Jim Carnahan (R) receives the First Outstanding Service Award at the faculty level.

The William A. Chittenden Award

Presented to an outstanding master of science graduate in general engineering.

R. Ryan Ohs

When the Graduate Committee looked at the eligible MSGE graduates, they found that Ryan stood out with excellent grades and a "super" thesis on piezoelectrics under the supervision of Professor Narayan Aluru. In addition, according to Professor Aluru, Ryan developed models of hydrogels that were a real contribution that gave his research group an excellent start on research that is now being continued by a new student.



Ryan Ohs receives the William A. Chittenden Award from Prof. Narayan Aluru.



John Holz ('76, '81) winner of the Gamma Epsilon Distinguished Alumni Award with Andy Vaughn of East Moline, President of Gamma Epsilon.

General Engineering Scholars Awards

Presented solely on academic merit.

Freshman

Christopher Babel
Jeffrey Kustusich
Daniel Ayres
Mehwish Nagda

Sophomores

Adam Varavadekar
Matthew Frye
Jonathan Collins
Matthew Brenner
Mitchell Goldenberg

Juniors

Adam Grosch
David Kessler
Terry Bradley
Kenneth Scheiwe
Amanda Bates
Rene Passaglia

The Bernt O. Larson Awards

In honor of his achievements, the Larson Award for GE 342 project design excellence was established by Bernt's friends when he retired in 1974.

First Place:

August William Bockrath
Kevin Thomas Coonan
Matthew Robert Walter
Scott A. Burns, Faculty Advisor
"Power Cord Reel"
Telefonix, Inc., Sponsor

Second Place:

Lindsay Arnis Krussow
Marc Chanin Lifshin
Rodrigo Lizondra Valdez, Jr.
Henrique Reis, Faculty Advisor
"Redesign of Folding Chair Hinge"
The Folding Bleacher Company,
Sponsor

The Gamma Epsilon Distinguished Alumnus Award

John B. Holz

Mr. Holz completed his BSGE in 1976 and his MSGE in 1981. He is currently the Vice President, Web Server Sales for the Americas for IBM. In this position he is responsible for IBM Web Server sales, including pSeries, RS/6000 and NUMA-Q product families.

During his 24-year tenure with the IBM Corporation, Mr. Holz has held a series of sales, marketing and market development positions in IBM's UNIX and CAD/CAM solution businesses, including 3 years in Tokyo as general manager of IBM's RS/6000 system business for the Asia Pacific region. Prior to assuming his current responsibilities, Mr. Holz was vice president of worldwide sales for IBM graphics workstations. His headquarters operation is based in White Plains, New York.

2000 Lincoln Arc Welding Awards

The James F. Lincoln Arc Welding Foundation offers annual awards to recognize and reward achievements by engineering and technology students in solving design, engineering, or arc welding fabrication problems. The five criteria used to select the winners are originality or ingenuity, feasibility, results achieved or expected, engineering competence, and clarity of the presentation.

Since the Department of General Engineering first entered this national competition in 1968, 103 senior design projects have been recognized with the prestigious awards. The number of these awards that have been bestowed on GE senior design projects is a testimonial to the high quality of work that can be found through this business-education partnership. Congratulations to all of the winners. Listed below are the awards, titles of the winning projects, student team members, and project advisor in 2000.

Ment Awards

Title of Project: Durable Labeling of Product Line
 Team: Michael L. Ledesma, Melody C. Manaloto, Jason Bill Vranas
 Faculty Advisor: Manssour Moeinzadeh
 Sponsor: Parker Hannifin Corporation

Title of Project: Maintenance Program to Improve Productivity
 Team: Gina Marie Gustafson, Yi-Hsin Lo, Catherine A. Marton
 Faculty Advisor: David E. Goldberg
 Sponsor: Concentric, Inc.

General Engineering Service Awards

Presented to students based upon individual level of service and personal contribution to the Department of General Engineering. Each class receives a unique token of appreciation.

Seniors

(graduating Dec. '00, May '01, or August '01)

Cari Bilodeau
 John Colgan
 Allen Demling
 Erin Engels
 Henry Hahn
 Dana Injerd
 Sara Koehler
 Lindsay Krussow
 Jacqueline Kubilus
 Jessica Kwak
 Katie Mullen
 Carrie Solberg
 Erin Sullivan
 Jeff Turner

Juniors

(graduating Dec. '01, May '02, or August '02)

Mark Ambler
 Michael Maschek
 Ricky Mat
 Jennifer Moose

Sophomores

(graduating Dec. '02, May '03, or August '03)

Alison Litowsky

Freshmen

(graduating Dec. '03, May '04, or August '04)



Some of the winners of the GE Service Award included: (L-R, back) John Colgan, Wheaton, IL; Allen Demling, Glen Ellyn; Mark Ambler, Urbana; Jacquie Kubilus, Freeport; Alison Litowsky, Buffalo Grove. (L-R, front) Erin Sullivan, Rushville; Mike Maschek, Downers Grove; Jeff Turner, Plainfield; Carrie Bilodeau, Hawthorn Woods.

2000 Lincoln Arc Welding Awards

continued from page 11

Title of Project: Power Cord Reel
Team: August W. Bockrath, Kevin Thomas Coonan, Matthew Robert Walker
Faculty Advisor: Scott A. Burns
Sponsor: Telefonix, Inc.

Title of Project: Wind Load Capacity of Lighting Poles
Team: Arturo D. Aguilar, Daniel Zachary Feuser, Kyle J. Linenfelser
Faculty Advisor: W. Brent Hall
Sponsor: Sternberg Vintage Lighting

Title of Project: Design of Impact Testing Apparatus
Team: Jacquyn Herber, David Millen, Tab Snyder
Faculty Advisor: Thomas F. Conry
Sponsor: Flex-N-Gate Corporation

Title of Project: Design/Build of Impact Testing Apparatus
Team: Timothy A. Grigoletti, Louis V. Inendino, Molly K. Princehorn
Faculty Advisor: Roland Ruhl, Mark Strauss
Sponsor: Flex-N-Gate Corporation

Title of Project: Gear Housing Bracket Redesign
Team: Jason Thomas Czapka, James Dale Rohr, Martin Witt, III
Faculty Advisor: Edward N. Kuznetsov
Sponsor: Cummins Engine Co.

Title of Project: Alternatives to Porcelain Stovetops and Grates
Team: Nissa J. Ali, Brian Jon Denny, Nathan D. Duncombe
Faculty Advisor: Narayana R. Aluru
Sponsor: Atwood Mobile Products

Bronze Awards

Title of Project: Improvement of Durability and Ergonomics for Packaging
Team: Sara Rebecca Koehler, Karen Lynn Shea, Robert Howard Strauss
Faculty Advisor: Manssour Moeinzadeh
Sponsor: Holm Industries, Inc.

Title of Project: Automation of a Sealing Operation
Team: Christy Gomorczak, Matthew Harford, Karen Kowalski, William Ryan
Faculty Advisor: Manssour Moeinzadeh
Sponsor: Watlow Gordon



FACULTY & STAFF NEWS

Associate Professor **Louis Wozniak** has been selected recipient of the IEEE Power Engineering Society's Energy Development and Power Generation Committees' 2001 Distinguished Service Award. The yearly award recognizes an ED&PG Committee member for sustained, meaningful contributions to the operations of the Committee. He was elected to the Committee in 1989 and has served as the Committee's Technical Sessions Coordinator for the last ten years. A Fellow of the IEEE, he also serves as Editor of the IEEE Transactions on Energy Conversion.



Associate Professor Lou Wozniak receives the Distinguished Service Award from Charles A. Lennon, Jr., Chairman of the IEEE Power Engineering Society's Energy Development and Power Generation Committee.

Associate Professor **Louis Wozniak** was the featured speaker at the Rock River Valley Section of IEEE Computer/Control Systems Chapter Meeting, "A Graphical Approach to Control Loop Tuning."

Harry Cook, Professor, was a Featured Presenter at the 4th Annual VOICE of the Customer Conference, "Connecting with your

Chicago Alumni Reception

(top) Jim Christensen '77, Dick Armstrong '64

(bottom) Dan Smith '96, Steve Stubitz '79 '82, Bob Denley, Molex Corp., Matt Gaertner '92



General Engineers Receive College Honors

Stanley H. Pierce Award

Stanley H. Pierce was an inspiring leader in the constant endeavor for better relations between faculty members and students. During his years as associate dean of the College of Engineering, he gained the admiration and respect of the students because of his sincere concern for them as individuals and as a group. He was genuinely interested in their problems and achievements, both academic and personal, and established a real rapport with them. When he died in 1966, students and faculty alike felt the loss deeply. In memory of this exemplary spirit, the Stanley H. Pierce Award was established by the late W. L. Everitt, dean emeritus of the College of Engineering. As a guideline for the award, he proposed: "These awards would be given annually, one to the undergraduate student and the other to the faculty member who are selected as having done the most to develop empathetic student-faculty cooperation." The award, first presented in 1969, consists of a check.

Jonathan Dolle

Jonathan Dolle, a senior with a double major in general engineering and philosophy, exemplifies the dedication and leadership that promote positive student-faculty relations. A Chancellor Scholar and Knight of St. Pat, Dolle is a fully participating member of the instruction team for a course on emotional intelligence. For this course he took leadership of the student service project and online discussion group. In addition, he was a co-director of the Engineering 100 Program, taking responsibility for selecting learning assistants, developing and delivering training, and monitoring effec-

tiveness. Dolle explored his interest in people through study abroad in Bangladesh and Mexico. Known for his unique blend of humor, enthusiasm, intelligence, and common sense, he has served on the campus leadership committee and as student president and a Board of Governors member of the University YMCA. He was a co-chair of Alternative Spring Break and spent spring break 2000 monitoring working conditions of garment factories that produce university-licensed apparel.

Elizabeth Ruff Award

This award is in memory of Elizabeth Ruff, who received a BS in GE in 1982 and had been accepted to the Masters Program. Beth is remembered for her sincerity, unpretentiousness, consideration, and supportive nature. The award is open to sophomore and junior women in any discipline in engineering who exhibit those qualities.

Joanna Jenne

Joanna is a senior, specializing in Quality Control and completing an International Minor in Latin American and Caribbean Studies. She participated in the Universidad Catolica de Valparaiso Chile Exchange Program in the summer of 1998. Joanna has been a GE 100 and Engineering 100 Learning Assistant, an orientation chair for her residence hall, and Director of Information, Traffic and Safety for Engineering Open House. She has been an active member and officer in the Society of Women Engineers, the UI Co-op Society, Worldwide Youth in Science and Engineering Summer Camp, and Kappa Theta Epsilon.

She has volunteered at YWCA Domestic Violence Shelter, as a Junior Achievement eighth grade

classroom teacher, and as an engineering tour guide.

Joanna was nominated by fellow General Engineering student, Jacquie Kutilus, for her exceptional leadership and character.

Andrea Culumber Award

Rene Passaglia is the 2001 recipient of the Andrea J. Culumber Award. Katie Marton of General Engineering was the first recipient of this award in 1999. It is given to the junior engineering student who exemplifies the attributes and accomplishments of Andrea Culumber, BSME '97 who died in a car accident in 1998. Upon her death her employer, TRW set up this award in her memory. The presentation of this award was made at the Knight of St. Patrick Ball on Saturday, March 3, 2001. The excerpt below provides some background as to the exceptional qualities represented in this award and recognized in Rene Passaglia.

In memory of Lady Andrea Jean Culumber, 1975-1998

Throughout life, everyone meets someone who is truly special, one who can alter someone else's outlook on life, and challenges others to excel and evolve. Andrea Culumber was one of those people. In her four years at the UI, Andrea made a lasting impression on the faculty, staff and students through her keen intellect, relentless optimism and interactive leadership style. Her creativity, boundless energy and fierce independence sparked a contagious fire that motivated many of her peers to become involved in organizations and assert their individual leadership skills.

(Rene's personal information can be found on page 8.)

Customers' Spoken and Unspoken Needs for New Product Development." Professor Cook's presentation was titled, "Quantifying Your Customers Needs: S-Model Value Analysis & Product Planning. This conference is co-sponsored by IIR and PDMA

Assistant Professor **Narayan Aluru** was a recipient of the CMES Distinguished Young Author Award at the International Conference on Computational Engineering Science in Puerto Vallarta, Mexico. The CMES Distinguished Young Author Award is awarded each year to one author of a paper or series of papers published in CMES in the previous calendar year. (recipients must be under the age of 40 to be eligible.) The award recipient must be the first author of, or the author who made an important contribution to, a single paper, or series of papers in the CMES issues of the previous year.

Assistant Professor **Francesco Bullo** has recently won three grants. One grant is from the "Systems and Control" program at the Army Research Office and the other two grants are from the National Science Foundation's programs on "Dynamic Systems and Control" and the "Robotics and Human Augmentation". These grants will be supporting his theoretical research on nonlinear control and his robotic experiments in autonomous vehicles.

He was honored and very thankful to have been awarded the Gamma Epsilon Excellence in Teaching Award this past Spring. He is looking forward to the Fall



Prof. Francesco Bullo receives the Gamma Epsilon Excellence in Teaching Award from JoAnne Wong, Executive Board Member.

semester, when he will be developing a new course and writing the related textbook on nonlinear control of mechanical systems.

Professor **David Goldberg's** 1989 book, Genetic Algorithms in Search, Optimization, and Machine Learning is the fourth ranked "Most Cited Articles in Computer Science" according to the ResearchIndex, the NECI Scientific Literature Digital Library.

William (Bob) Norris (BSGE '96, MSGE '97) successfully defended his Ph.D. in Agricultural Engineering. He is currently employed as a Senior Engineer at John Deere. Professor Sreenivas was his co-advisor.

The Mechatronics webpage has been listed at androidworld.com with the bipedal robotic project (spring 01). It can be found at <http://www.androidworld.com/prod28.htm>

University Participates in International Conference on Genetic Algorithm Design

University representatives from General Engineering's Genetic Algorithms Laboratory travelled to San Francisco this summer to participate in this year's 2001 Genetic and Evolutionary Conference (GECCO).

The conference, which unites researchers from all over the world to discuss advances in the development of Genetic Algorithms, is sponsored annually by the International Society for Genetic Algorithms, of which General Engineering Professor David E. Goldberg is head. Goldberg, who runs the University's Genetic Algorithms Laboratory (ILLIGAL), addressed the society in the plenary session, and gave a tutorial on the Design of Competent Genetic Algorithms.

A number of illiGAL members led prominent workshops at the conference. Lab members Martin Pelikan and Kumara Sastry ran a workshop called, "Optimization by Building and Using Probabilistic Models (OBUPM) 2001," while Franz Rothlauf headed a workshop on "Representations and Operators for Network Problems."

Lab members also had a high number of their papers featured at the conference.

For more information on illiGAL's activities, as well as access to abstracts and fulltext documentation generated by the lab, visit <http://www-illigal.ge.uiuc.edu>.

From Your Alumni Relations Coordinator

Hello again! These past months have really kept us busy! Here are some things that we have been working on.

If you haven't already discovered it, we have a new design for our GE Web site, www.ge.uiuc.edu. I encourage you to take some time to browse it. For quite some time we have received feedback that our web site was perhaps one of the most helpful and "content-rich", but it wasn't particularly easy to navigate and certainly needed a new look. Based upon this feedback we focused on the priorities of developing a site that was very "user-friendly", graphically appealing, and provided optimal functionality. At first glance, you will notice the Express Links which assist users in direct access to information by identifying them as Prospective Students, Current Students, Alumni, or Corporations. All primary links tell the user what secondary links follow so that the site can be used efficiently and easily.

As are all web sites, ours is a work "in progress" and we continue to tweak it on a regular basis. We welcome your feedback and suggestions in the process! Let us know how we can make it even better, by sending comments to me at m-dimit@uiuc.edu. The next phase of the site, planned for spring of 2002, will include streaming video and on-line registration for alumni events.

Another major project we have completed is a new marketing piece for General Engineering. We found that we needed to invest resources towards our "brand identity" if you will. This new brochure has a progressive look and provides "at a glance" descriptions and applications of the General Engineering degree. We use this brochure for recruiting prospective students and

for strengthening corporate relationships with recruiters. We feel it is imperative to continually communicate the skills and competencies of General Engineers to companies that recruit at UIUC. I would love to provide one to YOUR Human Resources/Recruiting Department to insure that General Engineers have a chance to interview. Many times the local recruiters want to interview a GE, but the company has not listed the degree on the "official list for interviews". We want to do whatever we can to open more doors for our graduating seniors. Please send me an email with the name and address of a contact at your company and we'll send them a friendly letter of hello and the brochure.

As you might remember, my job includes Alumni *and* Student Relations, so I'd like to share with you some student-centered highlights: (1) Last fall 2000 we had about a 25% increase in the size of our freshmen class with 130 students, (2) This fall 2001 we have 175 freshmen, which is a 26% increase over last year, (3) This past spring we had a record number of Senior Design Projects at 27, (4) Last year, GE's topped the College Placement Stats with the highest number of interviews per student, (5) General Engineering had the highest placement rate for the College for the May 2001 graduates (as of July 2001). Additionally, our students continue to be recognized with college level awards (sited elsewhere in this newsletter). "Student Relations" is one of the most enjoyable components of my daily responsibilities!

One item that is a top priority for the upcoming year is to renovate the GE 342 facilities. If you graduated within the last 30 years, you know what the rooms look like

today! Our design objective is to simulate the corporate workstation environment and create improved space for teams to meet with their corporate sponsors. As an integral part of this project we are developing a new brochure for the renovation project that will allow corporate or personal sponsorship of "pieces" of the project. For example, sponsorship is available for a cubicle, or four cubicles, the corporate meeting space, the student presentation room, or perhaps one entire room. We believe that this will be an extraordinary opportunity for companies to optimize their exposure with students. Additionally, it is a prime opportunity for families to honor individuals or alumni to honor former faculty members or fellow alumni. Our intent is to have the renovation information available on the GE 342 web page this spring, so be looking for it! Sponsorship brochures will be mailed in the spring as well. If you are interested now, and would like to discuss sponsorship options, please email me at m-dimit@uiuc.edu or call me at 217-333-0140.

I would like to close by saying that GE alumni are incredible people! It is truly rewarding for me to work with alumni who genuinely care so much about the students in this program and our department. Remember, we are here for *you*, so don't hesitate to contact me if we can help you. We don't have all of the answers, but we are committed to doing our best to assist you!



Angie Dimit

A handwritten signature in dark ink, appearing to read "Angie", written in a cursive style.

New Sargent and Lundy Endowment Fund to support GE graduate students!

The Sargent and Lundy Endowment Fund has been created to provide fellowship support to graduate students in General Engineering as well as four other departments within the College of Engineering. This Fund came about primarily through the initiative of Bill Chittenden (BS GE 1950), a retired executive from Sargent & Lundy. Bill has been a strong supporter of GE for many years and established the William A. Chittenden Award for an outstanding GE graduate student in 1985.

A group of eleven engineering alumni from across the College have generously contributed to build a fund in excess of \$300K! The net income from the fund will be equally split each year among the five designated departments.

This Fund was also established in order to take advantage of a new matching program for fellowship support, which is available through the Provost's office. Essentially, the Provost's office will match the income generated from each new fellowship endowment that is established at \$150K or higher. This means that GE essentially has double the amount we would otherwise have to allocate to the graduate student who is selected as our Sargent & Lundy Fellow. GE should receive about \$6K each year.

Fellowship support is one of the highest priorities across the entire campus, so this gift is especially timely. Our sincere thanks to Bill Chittenden, Ken Hamming (BS GE 1940) and all of the other alumni who have made this fund a reality.

The Technology Entrepreneur Center is now into its second year of full operation

The Technology Entrepreneur Center is now into its second year of full operation, and is continuing to advance its mission to educate science and technology students about commercializing their research ideas and innovations.

As of March 2001, the Center is operating in its new office space on the restored third floor of the Ceramics Building. TEC now shares this floor with the University's Office of Technology Management. If you are on campus, please come by and see our new facility.

As of fall semester 2001, TEC now offer five courses in entrepreneurship through the department of General Engineering. In addition to the Technology Opportunity Assessment, Business Plan Workshop and Product Development for Entrepreneurial Ventures courses, two new courses have been added, Introduction to Entrepreneurship and Valuation and Planning of New Products.

"Introduction to Entrepreneurship" is an entry-level course for undergraduates, consisting of guest lectures from entrepreneurs, venture capitalists, corporate and intellectual property law attorneys, technology journalists and even local and national politicians.

"Valuation and Planning of New Products" is taught by Professor and GE Department Head Harry Cook, and exposes engineering students to the strategic complexities associated with proper market placement of new technologies.

In the spring semester of 2002, TEC will add two more courses to its roster: "Legal Issues in Entrepreneurship," taught by UIUC College of Law professor (and patent attorney) Jay P. Kesan, and "Practical Finance for Entrepreneurs and Engineers," which will be team-taught by TEC Visiting Associate Professor Brian P. Lilly and College of Commerce Adjunct Professor and CPA Julia Shapland.

On October 25th, the Technology Entrepreneur Center co-hosted "I emerging," a showcase for investors, featuring some of the most promising new technology companies coming out of the University of Illinois UIUC campus. TEC collaborated with the Office of the Vice President for Economic Development and Corporate Relations, the Vice Chancellor for Research and the Illinois Department of Commerce and Community Affairs.

TEC is also involved in community outreach. This fall, the Center is partnering with the Urban League on its M.I.N.E. Program – Minority Initiative for Networking and Entrepreneurship. TEC is helping to educate and mentor 10 local high school students interested in technology and entrepreneurship. These students attend some of the guest lectures in the "Introduction to Entrepreneurship" course, and receive business counseling and advice from GE faculty and students involved in the TEC program. This is the inaugural year of the M.I.N.E. Program. Anyone interested in offering assistance should contact Colette Rodgers at the Champaign-Urbana Urban League, at (217) 363-3333.

Professor and TEC Director Raymond Price is actively involved in organizing a local/regional band of angel investors, which he is tentatively calling "Illini Angels." Professor Price's goal is to assemble a small group of individuals willing to evaluate the commercial market for emerging technologies, and the viability of the companies being created, and to engage in early-stage investment in these companies. Anyone interested in participating in "Illini Angels" should contact Professor Price at (217) 333-4309, or price1@uiuc.edu.

Finally, as our course roster grows, so does the number of students interested in starting businesses. As such, the Technology



Marianne Dickerson, BSGE 1982 with Professor Ray Price.

Marianne is guest lecturing at the Technology Entrepreneur Center in GE 393, Business Plan Workshop. She presently resides in Chicago, Illinois, where she is Vice-President of IT/Business Development at RR Donnelley & Sons.

After going on to receive her M.S. in Industrial and Operations Engineering from the University of Michigan in Ann Arbor, Ms. Dickerson joined Decision Science Applications, where she utilized her technology education to design systems for flight simulators for the United States Air Force and private aerospace companies.

She received her MBA from the Harvard Business School in 1991. Since that time, she has combined a love of technology with her leadership skills in business strategy at such prominent institutions as Commonwealth Edison, ATKearney Financial Institutions Group, PriceWaterhouse-Cooper's and Corporate Strategy Group.

Entrepreneur Center is always actively seeking more people eager to be a part of its Professional Resource Network – our committed group of mentors, coaches and advisors for fledgling companies. If you would like to volunteer your time as part of our Network, please contact Laura L. Hirschfeld, Program Director for Network Coordination and Marketing, at 244-9550 or hirschfe@uiuc.edu.

Alumni Update Form

Name

Year of graduation

Additional degrees

Current title and position

Company

Business address

Business phone

Business fax

Home address

Home phone

Home fax (if applicable)

email address

Personal news, achievements, honors:

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Please indicate:

- Include above information in Alumni Updates of the *GE Alumni Newsletter*.
- Do not include above information in the next *GE Alumni Newsletter*.

I am interested in receiving information about the following:

- GE Alumni Mentoring Program
- Senior Design Project 342
- General Engineering Placement Service (for students)
- GE 291 and GE293 "Project Management & Teamwork"
- Engineer in Residence

Return Alumni Update Form to Angie Dimit:

FAX 217-244-5705

OR 117 Transportation Bldg.
104 South Mathews Avenue
Urbana, IL 61801

OR m-dimit@uiuc.edu

Thank you.

Fall Elective Courses

Do you ever wonder what kind of classes are of interest to students these days? Well, take a look at this list of Fall 2001 elective courses offered through General Engineering!

GE 199–Sec RLP: Engineering Emotional Intelligence • Professor Ray Price

Through innovative experiences both in and out of the classroom, Engineering Emotional Intelligence will help you determine your own EQ (Emotional Quotient), and show you how to develop the interpersonal, communications and leadership skills crucial for personal and professional success

GE 241: Component Design

Design of basic engineering components: structural members, machine parts, and connections. Principles applied include: material failure (yield, fracture, fatigue); buckling and other instabilities; design reliability; analytical simulation.

GE 293–Sec LH: Introduction to Entrepreneurship • Professor Ray Price

This one-credit-hour introductory course is open to undergraduates in all fields who are interested in learning about starting their own businesses. It consists of a weekly series of lectures given by successful entrepreneurs. Topics will include: evaluation of your business idea, obtaining financing for your company, legal and business issues, and product development. In addition to lecture attendance, students will be responsible for some outside reading materials and two or three writing assignments over the course of the semester.

GE 293–Sec MAD: Project Management and Teamwork • Angie Dimit

Project management and teamwork are central to engineering. Students will complete a team project and

will participate in corporate level training experiences related to all aspects of effective project management and problem solving. The objective of this course is to provide a foundation of knowledge and understanding of “project management by team” through hands-on experience and exposure to real world factors. This course is a cooperative effort between alumni, industry, and students. Topics will include: Forming an effective team, Quality Improvement Methods, Project Life Cycles, Determining customer requirements and turning requirements into specifications, Leading Change, Giving and Receiving Feedback, Interpersonal Skills for a Collaborative Workplace. This course is strongly recommended as preparation for GE 342 Senior

Design Projects

GE 323: State Space Design Methods in Control • Professor Juraj Medanic

Design methods; time domain modeling; trajectories and phase plane analysis; similarity transforms; controllability and observability; pole placement and observers; linear quadratic optimal control; Lyapunov stability and describing functions; simulation.

GE 324: Digital Control of Dynamic Systems • Professor Carolyn Beck

Examines theory and techniques for control of dynamic processes by digital computer; linear discrete systems, digital filters, sampling signal reconstruction, digital design, state space methods, computers, state estimator, laboratory techniques.

GE 334: Introduction to Reliability Engineering • Professor Brent Hall

An introduction to concepts in engineering design, testing, and management for highly reliable components and systems.

GE 380: Engineering Design Optimization • Professor Scott Burns

This course focuses on how to apply optimization techniques to engineering design problems. Emphasis is on problem formulation across a variety of engineering disciplines (e.g., mechanical, structural, controls, robotics, circuits, etc.). Basic optimization theory and a variety of numerical methods will also be surveyed. Problems will be solved using the optimization features of widely available software packages (Excel, Matlab, and Mathematica).

GE 393–Sec 324: Digital Control of Dynamic Systems • Professor Carolyn Beck

Examines theory and techniques for control of dynamic processes by digital computer; linear discrete systems, digital filters, sampling signal reconstruction, digital design, state space methods, computers, state estimator, laboratory techniques

GE 393–Sec BPL: Product Development for Entrepreneurial Ventures • Visiting Associate Professor, Brian Lilly

The purpose of this course is to teach students how to take an idea and develop it into a viable business. The course will focus on product design from the prototyping stage through final production. Additionally the course will integrate engineering activities with marketing approaches, salesmanship and business plan preparation. This is a practical course that is well suited for students who wish to undertake an entrepreneurial venture.

GE 393–Sec MJL: Technology Opportunity Assessment • Visiting Assistant Professor, Mark Laufenberg

This course will provides students with the some of the essential skills

needed for launching, operating, and growing successful new technology ventures. To that end, each student will, either individually or in project teams, select and evaluate a high-tech business opportunity. Ultimately each team will produce a feasibility plan based on that opportunity. Students do not need to have a specific business venture or team in mind before the start of the course ventures and teams will be finalized during the course. Topics covered in this course include business models, product and service development, intellectual property, market research and analysis, budgeting, pricing, accounting statements, organizing a company, seed and venture capital, and money needs

GE 393–Sec MJL: Technology Opportunity Assessment • Professor Harry Cook

This course will provides students with the some of the essential skills needed for launching, operating, and growing successful new technology ventures. To that end, each student will, either individually or in project teams, select and evaluate a high-tech business opportunity. Ultimately each team will produce a feasibility plan based on that opportunity. Students do not need to have a specific business venture or team in mind before the start of the course ventures and teams will be finalized during the course. Topics covered in this course include business models, product and service development, intellectual property, market research and analysis, budgeting, pricing, accounting statements, organizing a company, seed and venture capital, and money needs

GE 393–Sec MWS: Introduction to Robotics • Hutchinson

Fundamentals of robotics, rigid motions, homogeneous transformations, forward kinematics, velocity

kinematics, dynamics, and laboratory projects. Same as ECE 371, sec. MWS.

GE 393–Sec RLP: Business Plan Workshop • Professor David Goldberg, Marianne Dickerson

Business Plan will provide guidance, advice, and feedback on the development and writing of a business plan. Students should have a business concept they would like to develop. The business plan can be written individually or in small teams.

Graduate

GE 444–Decision-Making with Multiattribute Utility Analysis. Professor Deborah Thurston

Provides the student with background and practice in applying tools for subjective multiple attribute decision making when present or future states of nature are uncertain. Includes exploration of current research in developing computer aids to decision making under risk. Discusses issues in descriptive versus normative approaches in the context of the interface between operations research and artificial intelligence. Covers multiattribute utility analysis from theoretical foundations through assessment procedures, practice, and pitfalls of potential cognitive biases.

GE 485–Sec C: Genetic Algorithms in Search, Optimization and Machine Learning Professor David Goldberg

Genetic algorithms search procedures based on the mechanics of natural genetics and natural selection are finding increased application to the difficult problems of engineering, science, and commerce. This course surveys what genetic algorithms are, where they come from, how they work, and

how and where they have been applied

GE 489–Sec G: Robot Control Theory Professor Francesco Bullo

Dynamics and control of robotic manipulators. Emphasis on fundamental concepts and analytical methods for analysis and design of robot systems. Laboratory experiments complement the theoretical development. Same as ECE 489.

GE 491–Simulation of Dynamic Systems Professor Juraj Medanic

Modeling and simulation of dynamic engineering systems; distinct modeling approaches for engineering devices; analog and digital computer simulation of dynamic systems; design criteria and performance and design measures; and extensive use of case studies and projects

GE 493–Sec BAV: Managing Advanced Technology in Industry Bruce Vojak

This course will focus on the business side of managing advanced technology in industry, introducing students to: the strategic context of advanced technology; analytic financial tools used to estimate the potential value of advanced technology; legal tools important in managing advanced technology; interpersonal issues related to leading, and advocating on behalf of, advanced technology groups.

GE 493–Sec BV: Case Studies in Managing Advanced Technology in Industry Bruce Vojak

This course builds on GE 493BAV by applying the concepts learned in that course to real-life work situations. Instruction is through discussion of case studies and materials presented by visiting technology executives from industry.

Fall Elective Courses

continued from page 19

GE 495 : Evaluation and Management of Engineering Design Projects Professor Wayne Davis

Quantitative evaluation and optimization of project plans, using mathematical programming, multiple-criteria decision making and discrete event simulation; optimal design and sizing of engineering projects; reliability of designs, studied by a cyclic network analysis and network simulation; and implementation and control of engineering designs by network analysis.

General Engineering Staff and Faculty Receive Campus Honors

Donna Eiskamp, administrative aid to Department Head, Professor Harry Cook, received the **2001 Office Professional of the Year Award (OPTY)** in April 2001, and Harry Cook, Department Head, was named **2001 Boss of the Year (BOTY)** in October 2001 by The Secretariat. The Secretariat, is an organization at UIUC composed of employees in civil service classifications with qualifications that meet or exceed those of Secretary IV. It has been in existence for 52 years.

Donna was selected among fifteen nominees for (1) exhibiting outstanding professionalism, (2) performing her duties well, (3) routinely showing consideration and support of other staff members, colleagues, students and visitors to her office and the campus, and (4) enthusiastically supporting the UI and its programs.

The criteria for Prof. Cook's award included (1) performing his duties well and enthusiastically support UIUC and its programs, (2) routinely showing consideration and support of others – staff, colleagues, students, and visitors to office / campus, (3) performing courtesies beyond his daily responsibilities, and (4) exhibiting other qualities that exemplify good leadership and organizational abilities.

Both award recipients received an engraved desk clock and two certificates (one as nominee and one as recipient). Each recipient's name was added to a respective traveling wall plaque that displays the names of previous award recipients and the year they received their award. Each respective traveling plaque is held by the recipient for the year of the award.

GE 342 Projects

It is well known that General Engineering offers an engineering education with a unique orientation toward real-world problem-solving that can be found at only a few other engineering schools across the country and no other curriculum on this campus. One of our keys to successfully educating engineers is our partnership with industry, as evidenced by our senior design project course. We pioneer in this regard. In years past, our program has served as the model for a national accreditation board mandate of senior design activity for baccalaureate engineering degree programs. Last year, GE students won one-third of the awards in the major national competition for senior project design. This all translates to our graduates landing excellent jobs and salaries and our maintaining one of the top placement rates in the College of Engineering.

Senior projects can be a great way to leverage your efforts or those of your people. The student team can focus on a specific goal for a short period and stay in close communication with you if you are responsive and use the senior project voice mail system. On average, the "bang for your buck" is hard to beat these days. Call Harry Wildblood at 217-265-5359 or Brent Hall at 217-333-0329 if you would like more information or would like to participate. A list of our fall 2000, spring 2001, and fall 2001 projects are listed below.

Fall 2000

Preliminary Reassessment of a Proposed Decatur Reservoir—A Geographic Information System Approach

Project Advisor: W. Brent Hall

Company Sponsor: Archer Daniels Midland Co.

Company Contact: Mr. Dennis Roby

Supplier Evaluation Methodology

Project Advisor: Mark G. Strauss

Company Sponsor: Blaw-Knox Constr. Equipment Corp.

Company Contact: Mr. Larry Stapleton

Consolidation of Floor Space

Project Advisor: Wayne J. Davis

Company Sponsor: Caterpillar, Inc.

Company Contact: Mr. Sam Owens

Pre-catalyst Injection System

Project Advisor: Ramavarapu S. Sreenivas

Company Sponsor: Cummins Engine Co.

Company Contact: Scott Cole

Redesign of a Spring-Loaded Folding-Chair Hinge to Optimize Manufacturing

Project Advisor: Henrique Reis
Company Sponsor: The Folding Bleacher Company
Company Contact: Mr. John Lohman

Welding Capability Analysis

Project Advisor: Mark W. Spong
Company Sponsor: Morton Metalcraft Co.
Company Contact: Mr. Monte Savage

Locator for Center of Gravity of Golf Club Head

Project Advisor: Manssour Moeinzadeh
Company Sponsor: Wilson Sporting Goods Company
Company Contact: Dr. Carl Scheie, Ph.D.

Analysis of a Rotary Cutter Blade

Project Advisor: Thomas F. Conry
Company Sponsor: Woods Equipment
Company Contact: Mr. Keen Nyamwange

Spring 2001

Hydrologic Study of a Proposed Reservoir

Project Advisor: Juraj V. Medanic
Company Sponsor: Archer Daniels Midland Company
Company Contact: Mr. Dennis Roby

Automation of Weighing/Delivery System

Project Advisor: Mark W. Spong
Company Sponsor: Alberto-Culver
Company Contact: Mr. Rus Metcalf

Design of an Optics Block for Light Scattering Angle Investigation

Project Advisor: Henrique Reis
Company Sponsor: Alltech Associates, Inc.
Company Contact: Mr. Bart Benedict

Warehouse Layout and Capacity

Project Advisor: Harry S. Wildblood
Company Sponsor: Anheuser-Busch
Company Contact: Michael Brunetto

Redesign of Water Filtration System

Project Advisor: Carolyn Beck
Company Sponsor: A. J. Antunes & Co.
Company Contact: Mr. Scott March

Production and Warehouse Layout

Project Advisor: Rayadurgam Srikant
Company Sponsor: John O. Butler Co.
Company Contact: Mr. Michael Tong

Design of a Modular Shelving Unit

Project Advisor: Manssour Moeinzadeh
Company Sponsor: Carstens, Inc.
Company Contact: Mr. Kenneth Smott

Printing Efficiency and Durability

Project Advisor: Manssour Moeinzadeh
Company Sponsor: Carstens, Inc.
Company Contact: Mr. Kenneth Smott

Design and Fabrication of a Three-Way Exhaust Diverter Valve System

Project Advisor: Thomas F. Conry
Company Sponsor: Cummins Engine Co.
Company Contact: Mr. Scott Cole

Potable Water System Protection

Project Advisor: W. Brent Hall
Company Sponsor: Envirovac
Company Contact: Mr. John Oller

Design of an In-Line Industrial Water Gun

Project Advisor: Adam Senalik
Company Sponsor: Ergo-Tech, Inc.
Company Contact: Dr. Brian Lilly, Ph.D.

Reduced Changeover Time of Pre-Formed Pouching Machine Via Sealer and Controls Redesign

Project Advisor: David E. Goldberg
Company Sponsor: Flexicon
Company Contact: Herb DeBarba

Isolation of Mixing and Distribution Operations for Solvent Based Adhesive and Ink

Project Advisor: Ericka Southcombe
Company Sponsor: Flexicon
Company Contact: Greg Baron

Design of Tumbler Accessory for Parts Washer

Project Advisor: Brian Lilly
Company Sponsor: Graymills Corporation
Company Contact: Mr. Chris Novatny

Motor/Pump Redesign

Project Advisor: Narayana Aluru
Company Sponsor: Graymills Corporation
Company Contact: Ms. Aleksandra Rakic

Scrap Inventory and Value-Added Analysis

Project Advisor: Harry S. Wildblood
Company Sponsor: InnerPac
Company Contact: Mr. Alan Spindler

Automation of Carton Folding

Project Advisor: Michael H. Pleck
Company Sponsor: International Paper Co.
Company Contact: Mr. Jim Callerame

Zero Wastewater Discharge Operation

Project Advisor: Deborah L. Thurston
Company Sponsor: International Paper Co.
Company Contact: Mr. Jim Callerame

Integration of PocketZip to Handspring Visor

Project Advisor: Ramavarapu S. Sreenivas
Company Sponsor: Iomega Corporation
Company Contact: Dan Donahoe

Warehouse Layout Redesign and Inventory Management System

Project Advisor: Wayne J. Davis
Company Sponsor: Lipton
Company Contact: Mr. Erik Weingartner

Redesign of Exhaust Sensing System

Project Advisor: Juraj V. Medanic
Company Sponsor: Mostardi-Platt Associates, Inc.
Company Contact: Mr. Jeff Crivlare

An Auto-logging Device for Surveying Battery Usage

Project Advisor: Wayne J. Davis
Company Sponsor: Motorola Advanced Technology Center
Company Contact: Dr. Ion Nicolaescu, Ph.D.

Cable Assembly Process Analysis

Project Advisor: Edward N. Kuznetsov
Company Sponsor: Panduit Corporation
Company Contact: Mr. Shawn Ahlers

Hardware and Software Solutions for the Acquisition and Analysis of Quality Data

Project Advisor: Daniel Fittanto
Company Sponsor: Stratos Lightwave LLC
Company Contact: Mr. Bob Amberg

Joint Stability Analysis of Optoelectronic Assemblies

Project Advisor: Thomas F. Conry
Company Sponsor: Stratos Lightwave LLC
Company Contact: Dr. Mark Benton, Ph.D.

Ergonomic Alternatives to Part and Scrap Removal Process

Project Advisor: Mark G. Strauss
Company Sponsor: Transparent Container
Company Contact: Mr. John Polihronidis

Redesign of a Gearbox

Project Advisor: James M. Leake
Company Sponsor: Wes-Tech
Company Contact: Mr. Matt Skelton

Fall 2001

Coffee Creamer Fill Line Setup Time Reduction-NDA

Project Advisor: Harry S. Wildblood
Company Sponsor: A. C. Humco Corporation
Company Contact: Katy Bushue

Troubleshooting Filter Media Tube Sealing Operation

Project Advisor: Narayana R. Aluru
Company Sponsor: Advanced Filtration Systems, Inc.
Company Contact: Mr. Richard Darr

Inventory Management Efficiency Analysis

Project Advisor: W. Brent Hall
Company Sponsor: Carstens, Inc.
Company Contact: Mr. Ken Smott

Polyurethane Mold Tooling Analysis

Project Advisor: Brian Lilly
Company Sponsor: Duraco Products, Inc.
Company Contact: Mr. Bob Braun

Foil Seal Process Troubleshooting

Project Advisor: Edward N. Kuznetsov
Company Sponsor: Kraft Foods, Inc.
Company Contact: Ms. Su Jin Collier

Solder Joint Analysis and Troubleshooting

Project Advisor: Henrique L.M. dos Reis
Company Sponsor: Littelfuse, Inc.
Company Contact: Mr. John Kennedy

Cereal Dryer Belt Downtime Maintenance Reduction

Project Advisor: Michael H. Pleck
Company Sponsor: Quaker Oats Co.
Company Contact: Ms. Ann Talbert

Integration of Calendar Production Operation

Project Advisor: Juraj V. Medanic
Company Sponsor: Warwick Publishing Company
Company Contact: Rob Paschal

Alumni Association Dues Increase

The alumni volunteers who make up the governing body of the University of Illinois Alumni Association voted to increase the cost of joining the organization effective Oct. 1, 2001.

Citing membership dues as its only self-directed source of revenue, an increasing list of requested services and programs, and the need for improved business efficiencies, the Board of Directors approved a plan in which the annual cost for a single membership is \$45, and a life membership is \$750.

Several new payment methods and installment plans accompany the change in dues to make the personal investment for alumni and friends more convenient and affordable over time.

In the five years since the last dues increase, the programs and

services of the Alumni Association have expanded significantly in the areas of alumni records management, career services, constituent association relations and Internet services.

The University of Illinois Alumni Association was formed by alumni in 1873 as an independent but related organization to the University of Illinois. The Association's purpose is to facilitate the relationship between the University and its alumni for the welfare of all.

Today the alumni population of the University of Illinois' three campuses totals more than half a million, and more than 110,000 are members of the Alumni Association.

For more information visit the Alumni Association Web Site at www.uiaa.org.



GE Alumni Reunion

(top) Prof. Scott Burns; Don Morr '97 Decatur, IL; Rebecca Stephens; Mark Landers '97, West Lafayette, IN.
(bottom left) Gary Newton '57, South Haven, Michigan. (bottom right) Peter Vadhanasindhu '95 '00, Auburn Hills, Michigan

Welcome to the University of Illinois Alumni Association.

Your membership is helping build an even greater University alumni network. We hope you will become involved in the Association's many activities and take advantage of the growing number of exclusive member benefits.

Loren R. Taylor

Loren R. Taylor
President and CEO

Please clip and mail this application with your check or credit card authorization to:

University of Illinois
Alumni Association
1401 W. Green St., Suite 227
Urbana, Illinois 61801



UNIVERSITY OF ILLINOIS ALUMNI ASSOCIATION

MEMBERSHIP APPLICATION

PERSONAL INFORMATION

Name _____ E-mail Address _____
Degree/Year _____ Social Security Number _____
Address _____
City, State, Zip _____
Home Phone _____ Fax Number _____

SELECT YOUR MEMBERSHIP OPTION AND PAYMENT METHOD

Annual Membership

- Single \$45 Joint* \$60
 Single, Recent Grad** \$30 Joint, Recent Grad** \$40
 Single, Senior Alumni*** \$30 Joint, Senior Alumni*** \$40

Life Membership

- Single \$750 Joint* \$1,000
 Single, Senior Alumni*** \$375 Joint, Senior Alumni*** \$500

Check here if you would like information on other payment plans.

Membership dues include \$12 per year for a subscription to *Illinois Alumni* magazine.

Method of Payment

Check: Please make your check payable to the University of Illinois Alumni Association.

Credit Card: Please charge my:

MasterCard VISA American Express Discover

Card Number _____

Expiration Date _____

Signature _____

JOINT MEMBER INFORMATION

If you have selected a joint membership, please provide the following for the joint member:

Joint Member Name _____

Social Security Number _____ University of Illinois graduate? No Yes

Relationship to Member (optional) _____

Name on Diploma (if different from above) _____

* Joint members are two persons living at the same address who receive one copy of each issue of the alumni magazine and Alumni Association, college and department mailings.

** Currently enrolled as a University of Illinois student or earned a University of Illinois degree within the past three years.

*** Must be age 65 or older or have graduated from the University of Illinois 40 or more years ago. In the case of joint memberships, one of the joint members must meet this criteria.

UD14

GE ALUMNI UPDATES

'48 TSI Holding Co. is expected to break ground on a new plant in McMillin, Washington, outside Seattle. **John M. Hauck** is chairman of the board for the company.

'70 **J. Philip Lamb**, his wife Tammi, and their dog Crystal are celebrating 20 years as owners of automotive dealerships in Tuscola. After many years of owning separate dealerships in Tuscola, the couple opened Four Seasons Auto Plaza, specializing in many different makes and models of automobiles.

'75 **James Spese**, and his wife Tonya Spese of Mahomet, IL, gave birth to a daughter, Karsyn Spese, on November 3, 2000.

'76 **Joseph M. Racansky** assumed the role of Dir., Risk Management for Cytec Industries in 2000 at their New Jersey corporate offices. Joseph was formerly the insurance manager for 13 years at Union Comp. Corp., which merged with International Paper in 1999.

'80 **Henry Neicamp**, Fleet/Commercial/Industrial Technical Services Manager with Pennzoil-Quaker State Company, recently became certified as a Certified Lubrication Specialist (C.L.S.) by the Society of Tribologists and Lubrication Engineers (STLE). Certification recognizes those individuals who possess current knowledge of lubrication fundamentals and theory. He works at the company's specialty blending plant in Marion, Illinois. He and his wife, Donna, have two daughters, Leanne (12) and Robyn (7) and reside in Marion, Illinois.

'81 **Kevin G. Kerns**, president of Apropos Technology, the Oakbrook Terrace developer of customer management software was featured in the September 6, 2000 issue of the

Nancy Cantor named new UIUC chancellor

Nancy E. Cantor, a distinguished scholar and experienced academic official, is the new chancellor of the University of Illinois at Urbana-Champaign.

Dr. Cantor, 49, was provost and executive vice president for academic affairs at the University of Michigan in Ann Arbor.

"Nancy Cantor has everything that the U of I at Urbana-Champaign, one of the world's great public universities, deserves," Stukel said. "She has star power in her own discipline of psychology. She is an experienced academic leader at two great—and quite different—American universities. She understands the core values of the campus and the overriding ethos of excellence. Finally, she is enthusiastic, has high energy and understands the commitments we make to our many constituents—from students to taxpayers, from alums to legislators. She has it all."

Cantor earned a bachelor's degree from Sarah Lawrence College in 1974 and, four years later, a doctorate in psychology from Stanford University. She immediately joined Princeton University's faculty, where she was tenured within three years.

She joined the University of Michigan faculty in 1983 as an associate professor and, in succession, was full professor, research scientist and associate graduate dean before returning in 1991 to Princeton, where she also chaired the psychology department, 1992-96. In 1996 she returned to UM as dean of the graduate school and vice provost for academic affairs. The next year she was named provost and executive vice president; she is also professor of psychology and senior research scientist in the Institute for Social Research, one of Michigan's best-known and respected centers.

But being chancellor at Urbana-Champaign is a rare opportunity, she said, and one she couldn't pass up.

"It's a fabulous university," she said. "There are very few truly great public research universities and the University of Illinois at Urbana-Champaign is one of them. I understand, and President Stukel emphasized this, that the Board of Trustees is committed to enhancing the campus and its presence in the world.

"Illinois has a phenomenal reputation in the sciences, a remarkable library and wonderful performing arts. In fact, it is the prototype of the great public research university—strong engineering, the life sciences and agriculture, information technology—and it also remembers to nurture the human spirit through the arts and humanities, engaging students in learning communities, the Discovery Program, and an emphasis on undergraduate opportunities for research, for example."

She called diversity—intellectual, geographic, social, racial and ethnic—"a very cherished value" for universities such as Illinois and an imperative for democratic living. "We achieve excellence through the diversity of people and ideas around the table, and in the partnerships we make on and off the campus," she said.

"She really understands how wonderful the Urbana-Champaign campus is and that we all are committed to not only making it better but letting everyone know how good it is," Gerald W. Shea, chairman of the UI Board of Trustees, said.



Nancy Cantor

Law professor Thomas Ulen chaired the faculty-dominated committee that solicited nominations, reviewed a candidate pool of some 100 men and women and recommended a handful of best-qualified individuals to Stukel.

"We had an extraordinarily strong pool of candidates from the very best institutions in the United States," Ulen said. "Nonetheless, from a very early stage in our search, the committee unanimously felt that Nancy Cantor was the strongest candidate in the pool and the one with the best fit for this campus. The committee is thrilled to have her as our next chancellor."

Dr. Cantor is the co-author or editor of three books; author or co-author of more than 30 chapters in books; and author or co-author of nearly 50 articles. She has derived her professional and research support from the National Science Foundation, the Sloan Foundation and the Andrew W. Mellon Foundation. In the last decade, she has delivered addresses to a variety of professional association meetings, at universities from The Netherlands to California and to public audiences.

She is a fellow of the American Psychology Society, the American Psychological Association and the Society for Personality and Social Psychology. She is a member of the Society of Experimental Social Psychology, the Society for the Psychological Study of Social Issues, the American Association for Higher Education and the American Association for the Advancement of Science.

Dr. Cantor was inducted into the American Academy of Arts and Sciences just last October and will be inducted as a member of the Institute of Medicine of the National Academy of Sciences this coming October.

Other awards and honors have come from the Society of Experimental Social Psychology, the American Psychological Association, University of Michigan, the U.S. Department of Labor Women's Bureau, the Polish government and the Michigan Region of the Anti-Defamation League.

She has been active on committees, task forces and government commissions on such issues as gender, athletics, student engagement, accreditation and the biomedical and behavioral sciences. She is also on the Board of Trustees of Sarah Lawrence College, the Board of Trustees of the Center for Advanced Study in the Behavioral Sciences and is vice chair of the Board of Directors of the American Association for Higher Education. She is on the DaimlerChrysler Scientific Advisory Board and the Board of Trustees of the Woodrow Wilson National Fellowship Foundation, as well.

Dr. Cantor is married to Dr. Steven Brechin, an environmental sociologist; the couple have two children, 16-year-old Maddy and 11-year-old Archie.

Nancy Cantor is Urbana-Champaign's seventh chancellor since the president-chancellor system began in 1967 with Jack Peltason as chancellor and David Dodds Henry as president. The other Urbana-Champaign chancellors: William Gerberding, John Cribbet, Thomas Everhart, Morton Weir and Michael Aiken. Dr. Aiken, a sociologist, chancellor since 1993; he retired in August, 2001.

— Brian Lilly, Alumni Update

Chicago Sun-Times. In 1998, Apropos released the first software that integrates e-mail, Web messages, fax and voice calls, automatically routing communications to the appropriate agent, as well as providing account information about the customer.

Brian Lilly is serving as an entrepreneur in residence at the Technology Entrepreneur Center. Brian is the founder of Smart Solutions, a company based in Waterford WI. Brian is teaching a course this fall entitled "Product Development for Entrepreneurial Ventures. He team-taught a new course in Spring 2001 with Julie Shapland from Accounting.

Thomas F. Taylor recently relinquished command of the VFA-113 "Stingers", a Navy F/A-18 squadron, during a ceremony on board the USS Abraham Lincoln (CVN-72). After a 20 year flying career, and six deployments to the Indian Ocean and Arabian Gulf, he will retire from the Navy and become a Financial Planner/Advisor in Lemoore, CA.

'82 Participate.com, the leading provider of online community management services announced on July 7, 2000 that **Steve Stubit** has joined the management team as vice president of consulting and research. Steve will lead the company's fast-growing strategy and research teams, helping clients achieve top and bottom-line results through strategic planning of online communities.

'83 The Glen Ellyn-based engineering firm, Jacob & Hefner Associates, P.C., appointed **Daniel R. Malinowski, P.E.**, as vice president in charge of their new Will County office.

'85 **James Muenzenberger** had a son, James Robert, born on June 8, 2000.

'89 Mark Baysore and his wife Diane are the proud parents of their second child, Justin Gerald, born on Friday, Oct. 13, 2000.

Brandon J. Quealy and his wife Elise welcomed their first child, Brandon John Jr., on August 6, 2000.

'90 Barton Matthew Helmich of Charlotte, MI and Laura Tumilty of Pensacola, FL were married on June 17, 2000. Barton is a quality control engineer for Reliant Building Products, Inc. The couple will reside in Charlotte, MI.

Kimberly Jabel (Duckett) and Patrick Jabal were married on September 16, 2000 in Beaver Creek, CO. Kimberly works in technology investment banking for Goldman Sachs. The couple honeymooned on the Hawaiian island of Lanai.

Steven J. Law and Amy Lyn Law are the proud parents of Colby Mae, born June 15, 2000.

Robert A. Uhe and his wife Gretchen welcomed Ingrid Jokisch on May 22, 2000. Rob is the Chief Legal Counsel for the Speaker of the Illinois House of Representatives.

'91 Lawrence Chiang offers a web site that assists college student in good credit and credit cards. The web site tells students how to raise their credit rating, interpret a credit report, find errors, and how to contact a credit bureau to correct them. The web site also offers credit card applications.

Wesley A. Houtz and his wife Angela R. Kirwood Houtz are the proud parents of Brandon Raymond, born October 23, 2000. Wes is employed as a design engineer at Tecnova and Angela is a veterinarian at Grayslake Animal Hospital. The family resides in Gurnee, IL.

Daniel selected as new Dean of Engineering

David E. Daniel is the fourteenth dean of the College of Engineering. He follows William R. Schowalter, who retired in February 2001. Timothy N. Trick, a professor of electrical and computer engineering, served as interim dean until Daniel assumed his new post in April, 2001.

Head of the Department of Civil and Environmental Engineering at the University of Illinois for the last five years, Daniel "has proven to be a skilled leader, outstanding teacher, and scholar," said Provost Richard H. Herman. "We believe he has all the qualities that will sustain this university's exemplary record of achievement in engineering education and research."

Daniel is a member of the National Academy of Engineering and has won the American Society of Civil Engineers highest award for geotechnical papers published in its journals. With more than 60 peer-reviewed journal articles and as many conference proceedings to his name, Daniel has an international reputation for expertise in engineering containment systems for waste disposal and cleanup of contaminated waste disposal sites.

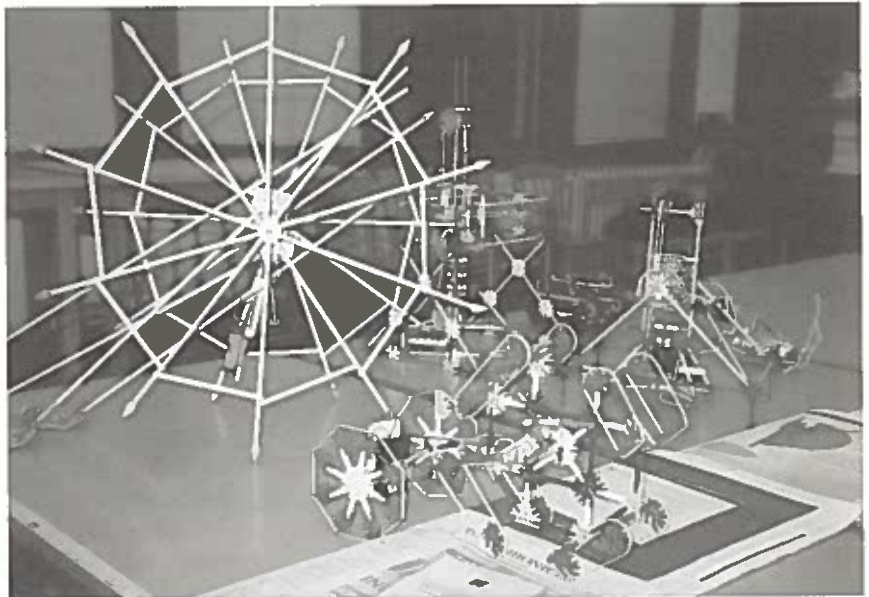
He has served on the National Research Council's Geotechnical Board as well as its Board on Energy and Environment. He also served for three years as editor in chief for the Journal of Geotechnical and Geo-environmental Engineering.

A University of Texas-Austin graduate, Daniel was a member of the faculty there from 1981 until 1996, when he joined the U of I. He was named a Gutszell Distinguished Professor in 2000.

(Courtesy of Engineering Outlook, 14:1)



David E. Daniel



GE 100 Mechatronics Team Projects

Visit <http://www.cd7.ge.uiuc.edu/s-burns/ge100.htm> for more designs and information.

Alumna Draws on Campus Experiences to Save Readers from E-Mail Overload

When alumna Kaitlin Duck Sherwood (BS MetE '80, MS GE '96) wrote two books on how to overcome email overload, she drew on numerous experiences she'd gained at UIUC.

"The computational facilities on this campus have always been phenomenal," says Sherwood. "I'm not sure people realize how good they've got it."

Sherwood, a "townie", started using University computers even before she enrolled for her BS. "My parents both worked on the PLATO project, so I got to spend a lot of time there as a kid." The PLATO project developed a pioneering educational computer system with early implementations of electronic mail, real-time chat, and timesharing software. (The PLATO project eventually turned into NovaNET, which the university spun out into a separate company in 1993.) "Obviously I had an 'in', but basically anybody could get an account on the system if they had a good reason."

"Then, when I came back for graduate school, I was just amazed at the number of campus computer labs that CCSO made available. If I hadn't had access to such good computational resources, I doubt if I would have developed so many Internet resources."

Sherwood developed the first version of the Web-based Courses Catalog and Timetable on Engineering Work Station (EWS) computers. From there, she talked her way into a job as webmaster for the top UIUC domain. The maps, floor plans, and a "virtual tour" that she developed are still available today at <http://www.uiuc.edu/navigation>.

As Webmaster, Sherwood also got a lot of email messages from people wanting more information. "Unfortunately," said Sherwood, "they didn't tell me which information they wanted. I didn't know if they wanted to know how to enroll, where the campus was, or the name of the Engineering Dean's dog."

Drawing on her experience, she wrote a simple guide to writing effective email and put it on her Web site. "I've been using email since 1974, so believe me, I've seen all the mistakes you can make-over and over again."

Her tutorial, *A Beginner's Guide to Effective Email*, now gets 50,000 "hits" per month. "'Gosh', I said, I should write a book on this." Sherwood quickly found out, however, that people were more interested in another topic. "People were so overwhelmed by their incoming mail that they had stopped caring about their outgoing mail. Fortunately, because of the opportunity to be Webmaster, I knew something about that, too."

Thus the book on writing e-mail turned into a book on managing email. That book in turn, split into two. "E-mail programs are different enough that the strategies and language are different from program to program."

And what is Sherwood's favorite e-mail program? Eudora, of course-also developed at UIUC.

— Alumni Update

Darren Plattner and his wife Sue welcomed their fourth child, Zachary on Sunday, October 15, 2000. Darren is a teacher at Champaign Central High School.

Cindy (Stimbert) Sands was married on May 13, 2000 to Steve Sands. She graduated from the University of Tennessee School of Medicine on June 1, 2001 and begin a residency in Pediatrics.

'92 James Gondeck and Erin A. Vida were married on September 9, 2000. After a honeymoon to Hawaii, the couple will reside in Palatine, IL.

Robert L. Newton has had two children, Alexander was born August 14, 1997 and Michaela born July 9, 2000.

'93 Curtis Fisher and Cynthia M. Elder were married on September 16, 2000 at the First Christian Church in Sullivan, IL. Curtis is employed as a gas engineer for AmerenCIPS. Following a wedding trip to Barcelona, Spain, the couple will reside in Charleston.

Aric R. Gerald accepted a position as the Ottawa Assistant City Engineer in September 2000. He recently passed the Civil PE exam and is now a licensed professional engineer.

Ryan K. Rounkles and Maureen A. Fischer were married on October 28, 2000 at Immanuel United Church of Christ in Carlyle. Ryan is a tooling engineer with TG Missouri in Perryville, MO. The couple resides in Arnold, MO.

'94 Dr. Keith Mueller and Miss Theresa Croak were married September 23, 2000. Keith is employed with the American Institute of Steel Construction in Chicago. They are now residing in Naperville, IL.

Ryan Kendal Rounkles and Maureen Ann Fisher married on October 28, 2000. Ryan is a tooling engineer at TG Missouri and Maureen is a physical therapist assistant at Telegraph Road Physical Therapy.

IN MEMORIAM

'95 **Timothy Phillis** and wife Vicki welcomed child number three, Joseph Timothy Phillis, born on June 5, 2000. He joins brother Anthony, 7 and sister, Elizabeth, 4. Tim is an Engineer, R&D at Litton Life Support in Davenport, IA. The family resides in Rock Island, IL.

'96 **Timothy R. Poeschel** and Linda DeMichael were married October 7, 2000 at St. Matthew Catholic Church in Schaumburg. Tim is employed by Wallance Computer Services in Lisle. The couple lives in Wheaton.

'97 **Noah J. Carmichael** was featured in the Winter 2001-2001 edition of Farmland Season.

Eric D. Graue and **Traci L. Conrady** were wed June 24, 2000 at Holy Family Church. Eric is a software consultant for IMB. The couple will reside in Bloomington, IL.

'98 **Corey P. Ryan** and **Rebecca C. Hamill** were married on June 17, 2000 in St. Mary's Immaculate Conception Church. Corey is a robotic engineer at New England Automation Solution, Hartford, Conn. Rebecca is employed at Community Physical Therapy, Newington, Conn. The couple will reside in Newington, Conn.

Carolyn Sperele and **John Mitchell** were married on October 21, 2000 at First Lutheran Church in Freeport. Carolyn is employed as a quality engineer for Automotive Sensors at Honeywell in Freeport. The couple resides near Freeport.

Craig Wunderlich and **Megan Lucie** were married on November 25, 2000 at the First Presbyterian Church in Macomb, IL. Both are employed at IMB in Raleigh, NC; Craig is a financial analysis and Megan is a human resources specialist.

'99 **Lori M. Beuligmann**, prepared for deployment with the USS Tarawa (LHA1) amphibious ready group in September of 2000. Lori is stationed on the dock landing ship USS Anchorage (LSD 36), home ported in San Diego.

'33 **Roy T. Nilsen**, 91, passed away on March 11, 2001 in Bellevue, IL. Roy was in the aerospace industry for 21 years as a senior structural and design engineer. In 1960, he changed to mechanical engineering and nuclear reactor design at General Atomic.

'34 **Wayne G. Smith**, 87, died September 25, 1999, at Carrington Place Convalescent Center. He retired as a colonel with the Army Reserves and was a veteran of World War II, serving at Kwajalein and other posts in the Pacific Theater.

'36 **Pierce Birkhoff**, 87, of Tellico Village, Loudon, passed away Saturday October 7, 2000, at Baptist Health Care Center, Lenoir City. The majority of Pierce's engineering career was spent with Farrel-Birmingham Corporation with positions in Buffalo, NY, Ansonia, Connecticut, and Rochester, NY.

'39 **George S. Trees**, 84, passed away May 23, 2000, in his home in North Palm Beach, FL. George was a life-time employee with the Chicago Bridge and Iron Company. He retired after serving as vice president of the company.

'47 **Charles A. Treadwell**, 81 of Elgin, IL, passed away at Sherman Hospital in Elgin on December 10, 2000. Charles held a professional engineers license in the state of Illinois and retired as chief project engineer at International Harvester Corporation in 1981. Charles was very active in the community, assisting with organizations such as Boy Scout Troup 24, the Elgin Zoning and Use Board, the Elgin Scottish Society, and the Golden K Kiwanis Club.

'50 **Maurice E. "Maurie" Young**, 74, of Jackson, Washington, passed way at Methodist Medical Center of Peoria on October 25, 2000. Maurice was a World War II Naval veteran. He retired from Caterpillar, Inc. in 1985 after 35 years of service as a supervising engineer at the Peoria Proving Grounds. After his retirement, he worked for the Hillcrest Golf Center in the Pro Shop.

'60 **Max E. Quigley**, 72 of Beardstown, formerly of Redondo Beach CA, died Wednesday, February 14, 2001, at Culbertson Memorial Hospital in Rushville. Max served in the U.S. Air Force for four years and retired from TRW in Los Angeles after 25 years of service.

'66 **Kenneth R. Gehrke**, of Pittsford, New York, passed away on September 25, 2000.



Seniors enjoying the GE Alumni Reunion

Engineers in Residence

Clockwise from top left: Donald Horton '53; Ken Gablin '56; Dan Krueger '87 with Matt Frye, junior in GE; Ralph Wakerly '80 with Lindsey Stancliff, senior in GE.



Fall 2000, Spring 2001, and Fall 2001

- Mark Benton, Director of Engineering, Stratos Light-wave LLC '74
- Mike Brunetto, Senior Manager, Anheuser Busch '77
- Marianne Dickerson, Vice President, Information Technology, R.R. Donnelly and Sons, '82
- Ken Gablin, President, Kenneth A. Gablin & Associates '56
- Donald Horton, Founder/Owner of Scigolf, '53
- Dan Krueger, Partner, Accenture '87
- Jeff Morris, President, Telephone Products, Inc. '70
- Gary Newton, Retired Chief Patent Counsel, Chrysler '57
- Jim DiOrazio, V. P., National Director of Engineering, Grubb & Ellis Management Services, Inc. '75
- Tom Prickett, President, Thomas A. Prickett & Associates, '57
- Dick Reynolds, Retired Director of Mechanical Research, Sunstrand '53
- Roger Stein, Patent Attorney, Wallenstein & Wagner '81
- Ralph Wakerly, V.P. Marketing, First Consulting Group '80

Additional Alumni in the classroom:

- Mary Beth Burke, formerly with Motorola, '87
- Ryan Geister, The Trane Company, '96
- Deanne Kolath, Price WaterhouseCoopers '94
- Brian Lilly, Visiting Professor, General Engineering/TEC '81
- Kennda Lynch, Abbott Labs, '00
- Mike McNulty, International Engine Company, '99
- Nathan Roberts, Accenture, '97
- Tom Stover, Cummins, BSME
- Scott Vifquain, Kurt Salmon & Associates, MSGE '95

If you are interested in being an Engineer in Residence or being a guest presenter in GE 291 (Leadership and Life Skills) or GE 293 (Project Management and Teamwork) contact Angie Dimit at m-dimit@uiuc.edu or 217-333-0140. More detailed information is available on the alumni link at www.ge.uiuc.edu.

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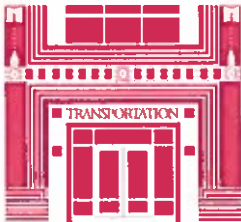
Fall Department Picnic

(above, left to right) Jess Hollis; Laura Hirschfeld; Holly Tiffin; Brady Genz, GE graduate student; Prof. Francesco Bullo

(top right) Randy Elkins and Andy Vaughn served up a record number of hamburgers, hot dogs, and veggie burgers.



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