

GENERAL ENGINEERING NEWSLETTER

Department of General Engineering, University of Illinois at Urbana-Champaign

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SPRING 1986

Alumni To Hold Spring Meeting, Elect Officers

The board of directors of the General Engineering Constituent Alumni Association will hold its Spring meeting on Friday, May 23, at Urbana.

The meeting will coincide with the Annual Design Symposium for student projects. The students enrolled in GE 242 will present the results of their semester projects to company sponsors, faculty and alumni at this time.

Beginning at 9 a.m., board members will have the opportunity to attend the design presentations until noon. A luncheon with students, faculty and company representatives will follow at the Illini Union.

An overview of the program will close the symposium in early afternoon.

The annual board meeting will convene in 115 Transportation Building beginning at 2:45. Officers for the coming year will be elected during the session.

It also has been announced that the Annual Fall Meeting will be held on Saturday, Oct. 11. Following the meeting and discussion session there will be a luncheon in the Illini. Alumni will then attend the Illinois-Purdue football game in Memorial Stadium where a GE bloc has been reserved.

Present officers of the association include:

President—David A. Burge, Cleveland, Oh.; First Vice President—George R. Armstrong, Rockville, Md.; Second Vice President—Gary Allie, Chicago; Secretary—Bradley D. Mottier, Rockford; Treasurer—Thomas Fiock, Carterville; and board members, Todd Neely, Oak Brook; Bob Devine, Urbana; Ron Hausch, Elk Grove Village; Leroy Kendricks, Champaign; John Holz, Milford, Conn.; and Kathy Phillips, Barrington.

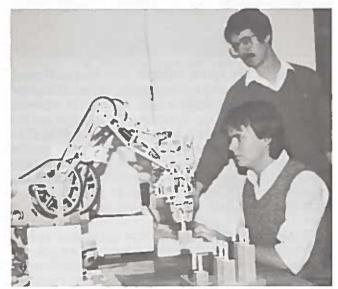
Prof. David C. O'Bryant is faculty-alumni coordinator.

GE Leads Alumni %

General Engineering graduates continue to show their Illinois loyalty by tying with Commerce for first place in percentage of paid members among constituent groups.

GE and Commerce have 39 percent of their graduates as members of the alumni association.

Of the 2,215 graduates from GE, 948 are members. Included in this figure are 713 life members, another enviable achievement.



Prof. Mark Spong (standing) and Graduate Student Robert Anderson work out an exercise in the GE Robotics Laboratory.

New Courses, Laboratory Expand Robotics Education

Prof. Mark Spong has taken the lead in expanding robotics education in the Department of General Engineering by developing two new courses and establishing a robotics laboratory.

Prof. Spong, whose research deals with applications of control theory to robotics is teaching Introduction to Robotics (GE 393) this semster and taught Advanced Control of Manipulators (GE 493/EE 497) last fall.

He plans to develop a complete program in robotics including laboratory facilities for teaching and research.

The present laboratory setup includes a simulated forging process, consisting of a Rhino robot (built by Rhino Robots of Champaign) interfaced to a General Electric Series Six programmable controller, with an external computer, oven and press forge. The computer was built by **Prof. Rodney Hugelman** of the GE department.

Spong and his graduate student, Robert Anderson of San Diego, Ca., and faculty members Petar Kokotovic and Jessy Grizzle from the Electral and Computer Engineering departments, developed the simulated forging environment as part of a project sponsored by CERL.

They plan to use the experience gained on the simulated system to automate a real forging operation at the Boston Army Arsenal this summer.

Department Head's Corner



As always, the spring semester rolls by rapidly and another academic year is about to hit the dust. This year has been a very productive year. During the semester break in January, two one-week short courses on the computers were conducted. One was on the IBM 4341 with six people from industry getting updated on the IBM CAEDS software system used in finite element analysis. The other was in using the IBM PC laboratory showing how MICRO-CADD can be used in graphic representations. Both workshops are being repeated in June, 1986.

The General Engineering students did an outstanding job during Engineering Open House. Two of the displays received awards. It was without question the best effort by the students in Open House we ever had.

Professor Mark W. Spong has established a small robotics laboratory he is using for a new course in robotics. The laboratory needs an additional \$50,000 of equipment to be fully operational. Unless we obtain some grants, we will not be able to fully implement the robotics program.

At the present time a joint committee from General Engineering and Business Administration are close to agreeing upon a joint Master's Degree program in General Engineering and an MBA in two and a half years. Hopefully, this will be in place by the end of the year.

The G.E. Constituent Alumni Association is planning a meeting in the fall. I would like to encourage more of you to attend so we can have an opportunity to show you what is going on in our high-tech environment.

Jerry S. Dobrovolny, P.E., Professor and Head Department of General Engineering

GE Graduation List Includes Many Women

Thirty-seven percent of the May 1986 candidates for graduation from the Department of General Engineering are women.

Of the 57 total candidates for the bachelor of science degree 21 are female.

There is a total of 404 students currently enrolled in the department including 129 women. They represent 32 percent of the enrollment.

Donations to GE Fund Used in Various Ways

Donations to the General Engineering Development Fund totalled more than \$14,000 in 1985.

A total of 60 separate individuals and industrial firms contributed to the account.

"These donations are extremely important to the overall performance of our department," **Prof. J.S. Dobrovolny**, department head said. "It should be emphasized that only 37 percent of the funds for the College of Engineering are from state funds. So we are greatly dependent upon our benefactors."

These funds are used for laboratory equipment, scholarships, faculty grants for travel and maintenance of computer installations.

Donations may be made to the Department of General Engineering, 117 Transportation Building, 104 S. Mathews, Urbana, IL 61801.

Hold Two Short Courses for Practicing Engineers

The GE department offered two one-week short courses on computer-aided design drafting for practicing engineers during the January semester break.

One course enrolled six people from industry for an intensive introduction to the IBM CAEDS computer-aided design system on the IBM 4341. It was taught by **Prof. Scott Burns.**

Nine registrants used the IBM PC laboratory in the second course to learn MICRO-CADD hardware and software application. They explored ways the technology could be used within their fields of endeavor and to situations within their own companies. The course was conducted by **Prof. Michael H. Pleck.**

Both courses will be repeated in June.

Those registered in the MICRO-CADD Course and their companies included: Douglas M. Beitel, Mundelein; Glenn E. Keuss, Grayslake; and Ross C. Lyman, Grayslake, all of College of Lake County; Curtis L. Crosby, Pana, and Dennis C. Williams, Decatur, both of A.W. Cash Value Mfg. Corp.; E. Eugene Gordon, Aurora, Walter E. Deuchler Assoc., Inc.,; David J. Hentrick, Hazel Green, Wi., Merkle Engineers, Inc.; Robert A. Roads, Jacksonville, Illinois.

The CAEDS workshop enrollees were: Scott Stroup, Roscoe; Michael Pupkis, Rockford; Merle Bennett, Rockford; Richard Davis, Rockford; David Goerlitz, Rockford; and Patrick Reilly, Rockford; all from Sundstrand Corp., Rockford.



Prof. Jerry S. Dobrovolny, head, Department of General Engineering, presents certificate to Robert A. Roads, '71 GE graduate, upon completion of MICRO-CADD short course on the UIUC campus.



Prof. James V. Carnahan has been named the 1986 Outstanding Professor Award winner by Gamma Epsilon. Carnahan (center), is shown at the GE Annual Awards Banquet with Janice E. Mueller (left), president of Gamma Epsilon, and Dina L. Sheathelm-Scott (right), secretary and presenter of the award.

JETS Announces Plans for Three Summer Sessions

Dates for the 25th annual Junior Engineering Technology Society summer program for high school students interested in engineering education have been announced.

The two-week sessions will be held between June 22 and July 3, 1986, at three Illinois locations. Only students who have completed their junior year will be considered for admission to the program.

The 1986 sessions include resident programs at University of Illinois at Urbana-Champaign and at Bradley University and a commuter program at the University of Illinois, Chicago.

The program was originated in 1961 by Prof. Jerry S. Dobrovolny, the late Prof. Bernt O. Larson, Prof. Gordon E. Martin and former Prof. David R. Reyes-Guerra, who is now national JETS president and executive director of the Accreditation Board for Engineering and Technology.

Participants receive intensive instruction in advanced mathematics at all three locations, the one in Urbana being taught by **Prof. Gordon E. Martin.** They also attend lectures, labs and field trips which expose them to most fields of engineering and the educational requirements for them. Two weeks of dormitory life gives them a taste of that aspect of college education.

Cost of the Urbana program is \$350. Interested students should contact **Jonathan Horner**, Illinois JETS coordinator, for a descriptive brochure and application form. The address is 209 Transportation Building, U. of I., 104 S. Mathews, Urbana, IL 61801 or call (217) 333-2860.

Prof. Manssour H. Moeinzadeh is one of two nominees from the College of Engineering for the 1986 Burlington Northern Foundation Faculty Achievement Awards to be presented May 1 at the annual Instruction Awards Banquet. Three \$3,000 grants will be awarded to U. of I. faculty members.

Faculty Notes

Prof. Thomas F. Conry has received a grant to use 15 hours of CRAY time at the National Center for Supercomputing Applications. This grant supports his computing activity on his NSF project, "Thermal Effects in EHD Traction."

Prof. Mark Spong attended the 24th IEEE Conference on Decision and Control in Fort Lauderdale, Fl. in December. He was session co-chairman for Robust and Adaptive Control and presented a paper, "Robust Nonlinear Control of Robot Manipulators."

Prof. Spong presented a paper, "Nonlinear Control Technique for Flexible Joint Manipulators: A Single Link Case Study," at the IEEE International Conference on Robotics and Automation in April at San Francisco, Ca. He also organized two invited sessions for the conference.

Prof. W. Brent Hall is serving three audiences simultaneously as he teaches a continuing education course, GE 334 Reliability Engineering, this semster. He has 15 students in an on-campus classroom which is being video-taped for later use. At the same time the course is being transmitted to 19 students in four electronic blackboard sites. These include Sundstrand Corp., Rockford; Beloit Research and Development Center, Beloit, Wi.; Rockford Medical Center Campus; and Caterpillar Technical Center, Peoria.

Prof. Manssour H. Moeinzadeh has received an equipment grant from the U. of I. Bioengineering Program. The award will cover the costs of an Inflight switcher and accessories for TV/Video display capabilities to be used in his biomechanics class. The components will complement the capability of the \$15,000 Barcodata III system used for undergraduate instruction in engineering design graphics under the EXCEL project.

Students Visit Rockford Firm



Pictured at the Rockford plant are (left to right) students Lisa Murphy, Mark Vogt, Louis Wozniak and Greg Orelind.

Prof. Louis Wozniak and four research assistants visited the Woodward Governor Co., in Rockford, Il., on April 27 and 28. There they tested a prototype digital governor for hydroelectric application on the firm's hydraulic actuator. The digital hardware is being developed under a two-year research grant from the U.S. Bureau of Reclamation.



Janice E. Mueller, president Gamma Epsilon, presents Distinguished Alumni Award to Walter W. Faster of Minneapolis, Minnesota.

General Mills V. Pres. Walter Faster Honored As Distinguished Alum

Walter W. Faster, Vice President and Director of Corporate Growth and Planning for General Mills, Inc., was named recipient of the 13th Gamma Epsilon Distinguished Alumni Award at the annual GE Honors Banquet on April 17.

A native of Lincoln, II., he was a 1955 graduate of General Engineering and later earned a MBA from the Wharton Graduate School of University of Pennsylvania. He served in the US Army Signal Corps, 1956-58.

From 1960 to 1963 he was a management consultant with Booz, Allen and Hamilton.

Faster joined General Mills in 1963 as an assistant product manager in the consumer foods area. Progressing through a number of food product marketing assignments, he was named Marketing Director in the Betty Crocker Division in 1969.

He held management and business development responsibilities in new business areas 1973-77. He then joined the corporate growth department as manager of venture development and served for three years as Director of Acquisitions before being elected to his present position.

Faster is a director of the Mentor Corporation, manufacturer and marketer of bio-medical products and is a member of the Boards of the Metropolitan Economic Development Association and the Cricket Theatre. He is chairman of the Conference Board National Council of Planning Executives and a member of the National Association for Corporate Growth and the Wharton Graduate School Club.

Vice chairman of the National Board of the Volunteers of America and past board chairman of the Minnesota branch, he received the organization's highest honor, the Ballington and Maud Booth Award for distinguished service to humanity in 1984.

Faster is a founder of RELATE, a Twin Cities Counseling Center providing services to families, adults and children in the areas of family therapy, physical/sexual abuse and addictive behavior. He also is an elder of the St. Luke Presbyterian Church of Wayzata, Mn.

Two Firms Lead List In Hiring GE Grads

Two business firms—Johnson Controls and Westing-house—have hired the most graduates from the Department of General Engineering according to a study covering the past nine years (1976–1985).

During the period the two firms have each employed 24 bachelor of science recipients from GE.

General Motors Corporation was close behind with 22 graduates.

Other companies popular with GE alumni are Ameritech/Illinois Bell with 16; Ingersoll-Rand 13; Chrysler Corporation, 12; IBM 10.

Nine graduates went with Caterpillar Tractor Cor. and Illinois Tool Works; 8 with Abbott Labs; 7 AT&T/Western Electric, Harris Corporation, Sargent & Lundy, Sundstrand Corp. and Texas Instruments; and 6 with Deere & Co. and Square D Co.

A total of 165 firms have hired at least one GE graduate in the nine-year period.

GE Alumns Can Receive Name Badges for Donations

Alumni can still receive an attractive blue and orange name badge identifying them as a U. of I. General Engineering graduate.

The identification badge is presented free to those making a \$50 donation to the GE Constituent Alumni Association.

The gifts are tax deductible and will be used for various alumni projects such as distinguished faculty awards, scholarships, newsletter, faculty travel and other services.

Those interested in making a donation should send their checks to GE Alumni Association, 117 Transportation Bldg., 104 S. Mathews, Urbana, II. 61801.

Many firms have a matching fund program whereby they will match donations of employees.



The 1986 William A. Chittenden Award winner, Robert Goldman, is shown with Prof. Thomas F. Conry (left) and William A. Chittenden (right), donor of the award, at the annual honors banquet.

Department Awards Presented at Annual Honors Banquet April 17

The annual General Engineering awards banquet was held April 17th at the University Inn.

The Edward S. Fraser award presented to the outstanding senior scholar in General Engineering went to Lincoln T. Smith of Mt. Vernon. The award includes \$200 in cash, a plaque and the name of the recipient is added to a permanent wall plaque in the Transportation Building.

The \$1,000 William A. Chittenden Award was presented to Robert Goldman of Morton Grove. The honor is given annually to an outstanding master of science graduate who has demonstrated high quality scholarship, research skills, teaching and/or research accomplishments and professional promise.

Two students, Smith and Janice E. Mueller of Cary, received \$500 each for the Ingersoll-Rand Award. Selection is based on academic achievement, leadership qualities, professional promise and career interest.

The Elizabeth Ruff award of \$500 was given to Ruta R. Sidrys of Streator, II. This prize goes to a sophomore or junior female student with a 3.75 or higher gradepoint average who shows sincerity, unpretensiousness, consideration and supportive nature.

The Randolph P. Hoelscher award went to Joan L. Olson of Oneida. The \$100 grant and certificate is presented to an outstanding junior student in recognition of scholarship, leadership promise, activities and cultural development.

Prof. James V. Carnahan was honored as the Outstanding Professor in GE. The recipient selected by Gamma Epsilon receives \$500 and a plaque.

Other awards included:

—Bernt O. Larson Project Design Award: \$150 each to Harry S. Wildblood of Mahomet and Kurt H. Lundstedt of Long Grove for coating thickness determination project;

\$75 each to Robert J. Chrisman of Country Hills, Kevin J. Dunn of Skokie and Henry C. Query of Chicago, for material cost reduction of a major refrigerator structural component.

-Herbert J. Sprengel Award; \$100 to Wildblood for a balsa wood project.

Also it was announced that Annette G. Drilling of Northbrook and Ruta R. Sidrys of Streator were named Knights of St. Patrick by the College of Engineering.

Gamma Epsilon Names '86 Spring Initiates

Spring initiates to Gamma Epsilon, honor society of General Engineering, have been announced.

They are: Christopher Allen Crawford, Libertyville; Rebecca Marie Foster, Rockford; Andrew S. Hill, Dixon; Christopher J. Hoyle, Glenwood; Michael G. Mobley, Elgin; Eric Odden, Woodstock.

Timothy J. Patno, Crestwood; Elizabeth A. Riordan, Herscher; Joel Wilson Storckman, Decatur; Thomas M. Tirpak, Glenview; and David T. Watanabe, Mt. Prospect.

Prof. Harrison Streeter is faculty advisor.



The four top award winners at the Annual Awards Banquet were (left to right) Robert B. Goldman, William A. Chittenden Award to the top graduate student; Walter W. Faster, Distinguished Alumni Award; Lincoln T. Smith, the Edward S. Fraser Award as the top graduating senior; and Prof. James V. Carnahan, Gamma Epsilon Outstanding Professor Award.

GE Wins Awards for Open House Exhibits

Engineering Open House 1986, "In Search of Solutions," held March 7-8 was a great success with GE department's exhibits termed "the best ever" by veteran observers.

Two of the exhibits won awards. "Not Just Another Engineer," sponsored by ISGE and chaired by Joan Olson, Mike Murphy and Fred Jewell, won second place in the Best Society Exhibit category.

"Computer Graphics... In Search of Tomorrow," a demonstration of GE's Auto CAD lecture facilities won fifth place in Tomorrow's Technology category. **Prof. Michael Pleck**, GE 103 TA's and Tim Moore coordinated the exhibit.

Other exhibits included the Robotics, Analog and Apple Labs, an Indy 500 Car Analysis and the fourth floor Auto CAD facilities.

This year's chairpersons, Annette Drilling for ISGE and Joel Lehman for Gamma Epsilon, expressed their sincere thnaks to the many students and faculty members for their assistance, cooperation and participation.



The 1986 Elizabeth Ruff Award was presented to Ruth R. Sidrys as the outstanding underclass woman. Shown left to right are: Tamara Ross, first recipient of the award in 1985; Clairemont Ruff, Claire Ruff and Mrs. Marie Ruff, family of the late Elizabeth Ruff and donors of the award; and Sidrys.

ALUMNI NOTES

- **1930** A. Callaway Allen who is retired has moved to Friendship Village of South County, 12623 Cottage Ridge Lane, St. Louis, MO 63127.
- 1948 Harold Brickman has retired as President of Ever-Wear, Inc., and moved to 3934 W. Jarvis, Skokie, IL.
- Ralph E. Recka, veteran industrial equipment and automated systems executive, has been appointed to the newly created position of Vice-president and Manager, Automotive Industry Automation Programs for Westinghouse Electric Corporation. A native of Chicago, Recka joined Westinghouse upon graduation. He resides in Ellicott City, MD.
- 1957 Kenneth W. Anderson, Springfield, IL, is Owner and President of the Anderson Seal Co., Inc., of Rochester, IL. The firm manufactures embedded rubber seals for concrete pipes.
- James De Cocker has been named Senior Original Equipment Marketing Specialist in the Timken Company's bearing business. A native of East Moline, IL, De Cocker has been with Timken since 1961, starting as a sales trainee. He has held several positions with the firm.
- 1963 Constance J. Mayer, M.S., Mgmt. Sci. '76, West Coast University, has opened her own firm, Minuteman Press, in Bakersfield, CA. For the past seven years she held the position of Cost Engineer at Texaco's Bakersfield Refinery.
- 1967 Brian Richard Bachman, M.B.A. '69, University of Chicago, has been named Director of Commercial Business, TRW Electronic Assemblies Division of Schaumburg, IL. He has moved from Skaneateles, NY, to Barrington, IL.
- 1972 David J. Mitchell is an Intelligence Research Specialist at the U.S. Army Foreign Science and Technology Center, Charlottesville, VA. Mitchell, who was married in August 1985, resides in Charlottesville.

Mario Anthony Stella of Dunlap, IL, has been promoted to Vice-President of sales and marketing of Raymark Corp., Crawfordsville, IN.

1974 Dr. David Louis Hagen, M.D. '79, UIMC, has taken the position as Community Physician in the Cheltenham and District Health Authority in England. Father of a second child, born in January 1986, Dr. Hagen has recently moved from Peterborough to Cheltenham.

Steven J. Smiley, M.B.A. '80, University of Wisconsin, is Materials Manager with Badger Meter. He resides in Mequon, WI.

1975 Herbert J. Green has been named Staff Engineer with the Solar Energy Research Institute, Golden, CO.

1976 Thomas W. Tobin, J.D. '80, Pace University, has been named a partner in the 264-lawyer legal firm of Wilson, Elser, Moskowitz, Edelman and Dicker of New York City. Tobin, who resides in Guttenberg, NJ, specializes in the defense of product liability litigation.

Robert D. Watson, Ph.D. '82, University of Wisconsin, is a member of the technical staff of Sandia National Laboratories, Albuquerque, NM. He is responsible for the conceptual design and structural analysis of high heat flux components used in controlled thermonuclear fusion devices such as tokamaks.

1977 Richard Kirk Cannon is a patent attorney with the firm of Flehr, Hohbach, Test, Albritton and Herbert in San Francisco. Cannon legally changed his named from Dziopek in the fall of 1977.

Steven E. Mair, M.B.A. '79, J.D. '85, University of Pacific, is an associate with the legal firm of Wohl, Cinnamon and Hagedorn in Sacramento, CA. His specialty is business counseling/business litigation. Mair and his wife, Paige, B.S. '79, are parents of three children.

John A. Metz is employed as Project Supervisor of John Deere Laredo Proving Grounds in Texas. His first child, a son, was born on October 30, 1985.

Judith Jennings Swinnerton, M.B.A. '85, University of Colorado, has been promoted to Staff Manager—Corporate NSEC of Mountain Bell Telephone in Denver, CO.

1978 Steven P. Graves has moved to Peoria from Seattle, WA. He is Sales Engineer for HVAC contractor/metal fabricator for DuPont Company in Peoria.

Timothy D. Wilson is Plant Engineer for the U.S. Paper Mills Corporation in Neenah, WI. He is now a licensed professional engineer in the states of Michigan and Wisconsin and he and his wife had a second son in September 1985.

1979 Dawn Cannell Edwards has moved from Dallas, TX, to Brookfield, WI, where she is a Marketing Specialist for RTE Corporation. Her husband, Charles Edwards, M.S.E.E. '81, is a Systems Engineer for General Electric Medical Systems Division.

Bradley D. Mottier, M.S.G.E. '81, is Vice-President of Marketing, Slick Aircraft Products, Division of Unison Industries, Inc., Rockford, IL. Brad and his wife, Jenny, are the parents of two children, Danielle, 3 and Barry, 1.

Capt. David O. Reip and his family have been relocated to Zaragoza, Spain, where he is Unit Training Officer in a Helicopter Combat Search and Rescue Detachment. The assignment is for three years.

J. Brian Galley is Environmental Engineer, Bureau of Air Management, Wisconsin Department of Natural Resources, Madison, WI. He was married in July, 1985, to Wendy Hertel, a pharmacist intern in Middleton, WI.

Dwight M. Woodbridge has been named Project Engineer with the Buick Division, General Motors, in Flint, MI. He received a degree in reliability engineering from GMI in 1985. His most recent project was fuel system calibration of the 1986 Buick Intercooler Turbo Regal.

1981 Gregory S. Gerard (M.S.G.E.) of Columbus, OH, has accepted a position as Applications Analyst with Compuserve, Inc. in Columbus. He and his wife, Mary, have a daughter, Kate, 2.

Brian J. MacGregor has moved to Schnecksville, PA. He has accepted a new position as Chemical Process Industry Market Specialist with Ingersoll-Rand in Allentown, PA. One of his responsibilities is to market the firm's expanding line of non-metal centrigual pumps. MacGregor recently became the father of a son, Daniel.

Robert L. Munger of Seattle, WA, is working on a master of engineering degree with the Environmental Engineering and Science Program, Civil Engineering Department, University of Washington.

Brian Quinn is employed by AMOCO in Whiting, IN. He is preparing to get registered as a professional engineer.

Brian H. Silver is a Research Engineer with the Kendall Research Center, Barrington, IL. A resident of Skokie, Silver was married to Elizabeth Ahlstrom in September, 1985.

Arnold J. Suigussaar of Wyoming, MI, has assumed a new position as Product Launch Engineer with Prince Corporation, Holland, MI. He has overall responsibility for production start-up of 15 new automotive interior components.

Lt. David C. Taylor is a U.S. Navy aircraft carrier pilot. He recently completed a 22-month course as a jet flight instructor in Meridian, MS. He has been given a 4-year tour of duty at the Naval Air Station Cecil Field in Jacksonville, FL, where he will fly the A-7 Corsair II starting with Light Attack Squadron 174.

Sharon Marie West, M.S.G.E. '83, Assistant Manager: Minicomputer Maintenance District of Illinois Bell, Chicago, is on a special 3-year assignment in Piscataway, NJ. She is a member of a 3-person team for Ameritech, working on developing the hardware and software required for 800 service for regional telephone companies. They will be working with teams from both Bellcore and DEC Corporation.

Richard Thomas Bourke, M.S.E.E. '85, is employed as an Electrical Engineer with the CAI Division of Recon/Optical, manufacturers of state of the art reconnaissance cameras, Barrington, IL. He resides in Wheeling.

Rory H. Dunn of Whitefish Bay, WI is a Sales Engineer with Ladish Company in Cudahy, WI.

Paul Victor Fryling of Madison, WI, has begun work on an M.B.A. at University of Wisconsin.

Bruce Alan Heimerich has moved from Lake Charles, LA, to Plano, TX. He has accepted a new position as a Manufacturing Engineer with Texas Instruments in Dallas.

Katherine M. Hughes, M.S. in Engineering Management '85, Stanford University, has been employed as Associate Information Developer by IBM, Santa Teresa Laboratory, San Jose, CA.

Robert W. Jaekel of Lindenhurst, IL, is an Instrument Design Engineer for Abbott Diagnostics Division, Abbott Laboratories, North Chicago, IL. For the past two years Jaekel has been a member of the design team that developed the "vision" whole blood analyzer for use in physicians' offices.

James D. Kanabay, Jr. is an Evaluator Navigator with the 319 BMW on a B-526 model at Grand Forks (ND) Air Force Base. He will soon be promoted to captain and assigned to pilot training at Vance Air Force Base, Enid, OK. Kanabay is married to the former Amy Anderson and they are the parents of a baby daughter.

1983 Susan C. Bowen, M.S.G.E. '85, an Industrial Engineer with Westinghouse, has transferred from the Marine Division in Sunnyvale, CA, to the Meter Division in Raleigh, NC.

Robert S. Dinse has been promoted to Senior Development Engineer with Oshkosh Truck Corporation, Oshkosh, WI. For the past 2 1/2 years he has been a Ram-D engineer with the firm.

Julie A. Chalden Evans of Foster City, CA, is a fultime student at San Francisco State University pursuing an M.B.A.

Douglas Brent Franz of Quincy, MA, has been named District Manager of Johnson Controls, Control Products Division, Braintree, MA.

Mike H. Gibson has moved from Lyons, IL, to Brookfield where he is a Software Engineer with MCC Powers, a division of Mark Controls in Northbrook.

Michael James Harrison has been named National Bid Manager of Harris Corporation in Dallas, TX. He recently moved from Richmond, VA, to accept the position.

Michael W. Hartley, B.S.G.E. '83, is a manufacturing engineer with Fastex Division of Illinois Tool Works, Des Plaines, II.

He is helping to develop a robot system which is used to unload molded plastic parts from an injection molding machine and subsequently load them into auxilliary equipment. The system contains both penumatic and hydraulic components controlled electrically via an Allen-Bradley programmable controller.

The project is aimed at increasing manufacturing efficiency while decreasing the amount of direct labor required.

The mold open time usually averages 7 to 8 seconds on robotized machines and can constitute up to 50 per cent of the molding machine cycle. This design attaches the robot arm to the mold which eliminates relative motion between the robot arm and the parts to be grasped.

The goal is to reduce the mold open time to two seconds.

Chris A. Irpino is a Pharmaceutical Engineer, Production Services with Eli Lilly and Company, in the Lilly Corporate Center, Indianapolis, IN. He formerly resided in Morton Grove, IL.

Mark William Kindig has moved to Lakewood, CO, to become Western Regional Manager of Clean air Engineering, Inc. of Denver, CO. His former location was Wildwood, IL.

Mark Arnold Spoor of Elgin, IL, has accepted a position as Production Quality Engineer with Northrop Defense Systems Division in Rolling Meadows, IL. Spoor married Sarah Spencer, B.A., LAS '84, November, 1984, and they are expecting their first child this summer.

2nd Lt. Manfred A. Bischoff is serving as 1984 Contracting Management Officer with Fairchild Air Force Base, WA.

Kevin W. Krak, McHenry, IL. Maintenance Programs Director for Mobil Oil Corporation, Schaumburg, IL, interviewed University of Illinois seniors for Mobil engineering positions in March, 1986.

Adrienne Gigler Myers is Electronic Manufacturing Engineer with TRW Electronics & Defense, Redondo Beach, CA. She is married to Mark William Myers, also a B.S.G.E. '84, who is a Manufacturing Engineer with TRW Electronics & Defense. The Myers make their home in Lomita, CA.

Michael John O'Sadnick, Littleton, CO, has a new position as Environmental Test Engineer with Martin-Marietta Denver Aerospace in Denver, CO.

Carolyn Strong Petro is an Associate Quality Engineer with CAI Division of Recon/Optical of Barrington, IL. Petro recently has moved from Prospect Heights, IL, to Mundelein, IL.

Jennifer L. Anderson, Waukegan, IL, is 1985 Quality Control Engineer for Laserage Technology in Waukegan. In her spare time she is an oboist for the Waukegan Community Players Pit Orchestra and is forming a class of piano students.

Marybeth Edstrom is employed as an Associate Systems Analyst with IBM in Poughkeepsie, NY.

Mark J. Halbur has recently moved from Woodridge, IL, to Mt. Arlington, NJ. He has accepted a position as Sales Engineer with Johnson Controls, Inc., at Landing, NJ.

David L. Lukens is a Service Engineer with Combustion Engineering, Inc., Phoenix, AZ.

Beth P. Yeager is serving as a Naval Officer with the Defense Intelligence Agency in Washington, DC. She resides in Arlington, VA.

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	HUSBAND-WIFE LIFE MEMBERSHIP—\$225. (INSTALLMENT PLAN: \$245—\$10 DOWN, FOUR YEARLY PAYMENTS OF \$58.75.)		
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If female, list maiden name. Does spo	If female, list maiden name. Does spouse have a U. of I. degree?		
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