



# GENERAL ENGINEERING NEWSLETTER

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

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## PROJECT EXCEL EXCELS IN 1985

Picture the dark, cluttered attic of the Transportation Building transformed into a bright, bustling computer learning center; sounds like a pipe-dream, you say? Come for a visit and marvel at the transformation!

The Department of General Engineering has initiated an innovative experimental instructional laboratory for engineering design graphics (EDG) in the first year of the Excellence in Computer-aided Education and Learning (EXCEL) grant program. It is being used in GE 103 in an educational pilot study involving several hundred College of Engineering students yearly out of an enrollment of about 1100. EDG is the basis of creating and interpreting computer-produced displays which, in engineering, are the heart of CAD/CAM activity.

Part of a \$12.5 million three-year grant from International Business Machines Corp., the primary aim of the project, according to Project Director Professor Michael H. Pleck, is to enhance education through imaginative use of advanced computing technologies.

The project's key ingredients include 35 microcomputers to be networked in workstation and server configurations, featuring advanced graphics capabilities provided by the adaptation of commercially available mini-CAD (micro-computer-based Computer-Aided Design/Drafting) software. Its long-range goals include pioneering effective ways of networking IBM computers in an EDG instructional setting and developing innovative instructional techniques provided by the interactive computer graphics (ICG) and networking environments. Networking allows fewer microcomputers and peripherals to accomplish a task involving multiple workstations more effectively.

Networking of mini-CAD software has not been attempted and is not planned in the immediate future by major vendors or developers, Pleck said. Moreover, some of the instructional innovations envisioned for this project, facilitated by networking, have not been reported in the mini-CAD realm, or elsewhere for that matter, according to Pleck.

The project's impact upon students is expected to be a more effective, comprehensive and unconstrained introduction to and reinforcement of the relevant concepts and methodologies of engineering design graphics than can be achieved by the traditional instructional methods. Indirectly, the ICG activity is expected to foster an increased preparedness in students to subsequently deal with CAD/CAM on campus and beyond.



G.E. 103 students at work in General Engineering's new Mini-CAD laboratory.

## CONSTITUENT ALUMNI ASSN. NEWS

A spring constituent alumni board meeting and nomination of officers is scheduled for May 13, 1985. A fall constituent alumni meeting, tour of the new Mini-CAD Laboratory, luncheon, and Illini football victory over S.I.U. is tentatively scheduled for September 7, 1985.

The General Engineering Constituent Alumni Association's representative to the Alumni Association Board of Directors, Gary Allie, '69, MBA '71, has agreed to serve a third two-year term on the board, effective this May. Chosen by the Constituent Alumni Board of Directors, Allie has for four years served ably as one of 41 constituent association members on the 99-member board, the remainder being at-large members. The board meets twice annually.

As an Alumni Board member, Allie serves on a number of committees, among them the Constituent Association Committee, which serves as an idea exchange forum, and the Constituent Association Review Committee, which is in charge of funding allocations.

Allie is a staff engineer at Inland Steel Company, Chicago.

## FALL PROSPECTUS HELD

The fall graduate prospectus was held on Tuesday, October 30, 1984 in the Reading Room, Levis Faculty Center, from 7:00 to 9:00 p.m. The graduate prospectus allows future graduate students to meet with faculty and graduate students and ask questions they may have regarding the graduate program in General Engineering.

## DAN DAL DEGAN HOMECOMING KING

Daniel T. Dal Degan, senior in General Engineering, was selected as 1984 Homecoming King. Dan, former president of Interfraternity Council, is from Orland Park, IL. Richard T. Box, Glencoe, IL, also a senior in General Engineering, was a member of the homecoming court. Dan is pictured below with Joan T. Stumpf, Homecoming Queen, a senior in Agriculture from Peoria, IL.



Homecoming King Dan Dal Degan and Homecoming Queen Joan Stumpf.

## JETS TWO-WEEK SUMMER PROGRAM

Do you have a teenager (or know one) who could benefit from some exposure to engineering at the university level?

High school students interested in learning about possibilities in engineering education are invited to apply for the 24th annual JETS two-week summer program, June 23 through July 5, 1985. Only students who have just completed their junior year will be considered. The program, which was originated by Professor Jerry S. Dobrovolny, the late Professor Bernt O. Larson, Professor Gordon E. Martin, and former Professor David R. Reyes-Guerra, who is now national JETS president and executive director of ABET, includes resident programs at Bradley University and Urbana and a commuter program at the University of Illinois in Chicago.

Participants receive an intensive class in advanced mathematics at all three locations, the one in Urbana being taught by Professor 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.

The cost of the Urbana program in 1985 will be \$350, Bradley \$300, and Chicago \$75. Some scholarship funds will be available. 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.

## GAMMA EPSILON AND I.S.G.E. NEWS

Gamma, Epsilon, the General Engineering honor society, and the Illinois Society of General Engineers, G.E.'s engineering society, have both had successful years under the guidance of Professor Harrison Streeter and Professors Wayne J. Davis and W. Brent Hall, respectively.

Gamma Epsilon, under the leadership of President Laura A. Shaffer, Crystal Lake; Vice-President Cynthia M. Schur, Willmette; Secretary Janice E. Mueller, Cary; Treasurer Robert A. Link, Lake Villa; Engineering Council Representative Matthew F. Fonck, Wilmington; Engineering Open House Representative Kirsten F. Laurin, Galva; and Publicity Chairman Dina L. Sheathelm, Carlyle, revised their secondary field guide and held a secondary field night and selected Outstanding G.E. Professor and Outstanding Alumnus awards to be announced.

I.S.G.E., under the leadership of President Lawrence R. Slight, Lisle; Vice-President Carolyn A. Strong, Mt. Prospect; Secretary David E. Reid, Hunley; Treasurer Anthony T. Archie, Chicago; Engineering Council Representatives Ellen M. Sedlacek and Daniel P. Kruger, Naperville and Hawthorn Woods, respectively; Publicity Chairman Paula R. Ghilarducci, Addison; and Engineering Open House Chairman Robert J. Matson, Hampshire, sponsored guest speakers from both the G.M. and G.E. companies and a Caterpillar Tractor Company plant trip.

New members of Gamma Epsilon, initiated November 8th, 1984, are: Howard L. Danzyger, Skokie; Thomas W. Fifer, Chatham; Louis F. Gross, Skokie; Joseph J. Kotowski, Chicago; Joel G. Lehman, Wheaton; Michael Mickelwright, Barrington; Timothy J. Moore, Joliet; Jennifer I. Ratliff, Bolingbrook; David E. Reid, Huntley; Lawrence R. Slight, Lisle; Vicki L. Van Blaricum, Rantoul; Carol A. Vician, Louisville, Kentucky; Karin L. Weidner, Charleston; Edward A. Wells, Antioch; Michelle G. Wierman, Rockford; and John S. Willian, Winnetka.

## EOH '85

"Method to the Madness" was the theme of the 1985 Engineering Open House, and computer methods highlighted the General Engineering Department's exhibits that included:

The CAD/CAM Laboratory--presenting the latest programming and aids to design analysis.

A demonstration of PCAT and Apple computers in use for General Engineering 103 design graphics classes.

The CERL (U.S. Army Corps of Engineers Construction Engineering Research Laboratory) voice recognition performance, illustrating the capabilities of new machines to assist the handicapped. The voice operated calculator programmed on an Apple microcomputer show its applications for the handicapped with limited tactile abilities. The Department of General Engineering has done an appreciable amount of research activity in this area with CERL and CERL in turn has sponsored many 242 projects in this area.

Finally, the Junior Engineering Technical Society's balsam-wood model smashing contest was a semi-smashing event.

This year's student directors were Kirsten F. Laurin, Gamma Epsilon, of St. Galva, Illinois, and Robert J. Matson, Illinois Society of General Engineers, of Hampshire, Illinois.

# STUDENT AWARDS

At the annual General Engineering Awards Banquet, held Thursday, April 25th at the Chancellor, the following awards were presented:

A Bronze Tablet award for outstanding scholarship was earned by **Paul Estrada**, Orland Park, a January 1985 graduate with a 5.0 all-university grade average.

The \$200 Edward S. Fraser Award to an outstanding graduating senior went to **Cynthia M. Schur**, Wilmette, based on her high scholarship and participation in university activities.

The \$1,000 William A. Chittenden Award, a new award, is to be given to an outstanding Master of Science graduate in General Engineering who has demonstrated high quality scholarship, research skills, teaching and/or research accomplishments, and professional promise. This year's recipient is **Bernard L. Cyr '81**, M.S. '83, Aurora, Illinois, and **John B. Holz '76**, M.S. '81, Chelmsford, Maryland.

The Randolph P. Hoelscher Award, consisting of a certificate and \$100, is presented to an outstanding junior student in recognition of scholarship, leadership promise, activities, and cultural development. This year's recipient is **Lincoln Todd Smith**, Mt. Vernon, who is also one of the American Institute of Plant Engineers scholars.

The Bernt O. Larson Project Design Awards, established by the Department of General Engineering to honor the late **Professor Bernt O. Larson** for outstanding contributions to the development of integrated engineering design education, has been chosen. First place of \$150 each was won by **R. Patterson Harmet** of Sycamore, **Warren A. James** of Winnetka, and **Bradley G. Lane** of Downers Grove. **Professor Howard W. Knoebel** was advisor for the project, "Computer Simulation of Throttle Control System". Second place of \$75 each was won by **Carol Ann Cryder** of Joliet, **John D. Hill** of Chicago, **Michael J. O'Sadnick** of LaSalle, and **Kathryn I. Phillips** of Palatine. **Professor L. Daniel Metz** was advisor for the project, "An Optimal Model for Heat Transfer and Air Flow in Side-by-Side Freezers".

The Ingersoll-Rand Company has established \$500 awards to be given to two outstanding G.E. juniors. Selection of the recipients is based on academic achievement, leadership qualities, professional promise, and career interest. This year's winners are **Adrienne A. Gigler**, East Saint Louis, and **John W. Wayne**, Sullivan.

Another new yearly award of \$500 has been established by **Mrs. Marie Ruff**, Chicago, in memory of her daughter, **Elizabeth Ruff**, who received her B.S. degree in 1982 and had been accepted to the Master's program before her untimely death. Beth is remembered most for her sincerity, unpretentiousness, consideration and supportive nature. The award will be made to a sophomore or junior female recipient with a 3.75 or higher grade point average and the above qualities. This year's winner will be announced at a later date.

The **Herbert J. Sprengel Award**, created to encourage excellence in design, is presented annually to the junior student who develops the best design and submits the best model and report, especially in the areas of use of experimentally determined material properties of the construction materials and methods, efficiency of the structure, technical analysis, and graphical and written communication. This year's winner is **Terry W. Anderson**, Catlin.

## LINCOLN ARC WELDING AWARDS

Class of '85 G.E. students **Joseph A. Kann**, Princeton, Il; **Thomas A. Mullholland**, Hazelwood, Mo; and **Paul H. Verstrate**, Chicago, Il received \$100.00 merit awards for their work on critical speeds of a high speed generator rotor from the James F. Lincoln Arc Welding Foundation, in October, 1984 in the mechanical division. Awards are made for entries describing how arc welding has been used to reduce costs; conserve material, energy, and time; increase productivity; improve function, appearance, or quality; or achieve other design or fabricating objectives in specific structures, machines, manufactured products, mechanical devices, welding procedures, and equipment.

**Prof. Henrique L.M. dos Reis** served as faculty advisor for the project.

## AIPE AWARDS SCHOLARSHIPS

**W. Peter Siems**, PE/CPE, president of the Heart of Illinois Chapter of the American Institute of Plant Engineers (AIPE) recently presented \$250.00 cash scholarships to **Stephen M. Coward** and **Lincoln T. Smith**, outstanding undergraduates in General Engineering at the UI/UC.

**Coward**, of Skokie, Il., is a senior in General Engineering whose secondary field of study is computer engineering. He is a member of Gamma Epsilon and the Illinois Society of General Engineers. Some of his outside interests are jazz and reggae music, music reproduction, baseball, science fiction, and traveling. His plans for the immediate future include a summer internship. Also, he intends to earn his M.S. degree from the Department of Electrical Engineering at the University of Illinois next fall.

**Smith**, of Mt. Vernon, Il., is a junior in General Engineering whose secondary field is management. He is a member of Gamma Epsilon, the Illinois Society of General Engineers, and Tau Beta Pi. Golf, racquetball, and music are his major outside interests. His future plans also include a summer internship.

**Siems**, a former resident of Champaign-Urbana, graduated from the University of Illinois with a B.S. in General Engineering in 1973 and has been a staff mechanical engineer in plant engineering at Caterpillar Tractor Company's Mossville plant since 1979.

The American Institute of Plant Engineers is a professional, individual member association dedicated to the advancement of engineering practice and management as applied to facilities in the public and private sectors.



**W. Peter Siems '73**, left, presenting American Institute of Plant Engineers scholarships to **Lincoln T. Smith**, center, and **Stephen M. Coward**, right.

## FACULTY NEWS

Professor Wayne J. Davis has just finished a two-year research study with the Department of Energy, the Purdue Laboratory for Applied Industrial Control, and a consortium of the steel industries to develop a hierarchical framework for integrating production scheduling, inventory management, and on-line control. Coincidental to this work he has developed new approaches to on-line decision-making in a stochastic environment. Currently Dr. Davis' research is being sponsored to develop improved maintenance strategies for pavement networks.

Professor L. Daniel Metz was recently reelected by the Department of General Engineering to the Senate of the University of Illinois at Urbana-Champaign for a second term.

In the fall of 1984, Professor Manssour H. Moeinzadeh and Professor G.J. Pijanowski of the Department of Veterinary Biosciences were awarded a joint grant for their interdisciplinary research work on kinematics and kinetics analysis of the canine hind limb. The grant was awarded by the Bioengineering Program of the University of Illinois. The two co-authored a paper summarizing their research presented at the 13th Annual Conference of the Veterinary Orthopedics Society in Salt Lake City, Utah, in late February.

Dr. Moeinzadeh recently received another research grant from the U.I. Bioengineering Research Grant Board for his proposal entitled "Determination of Canine Body Segment Parameters". This research will be conducted with the cooperation of the U.I. Department of Veterinary Medicine and Biosciences.

This semester Dr. Moeinzadeh has also been conducting independent research on the subject of knee-joint stress among soccer players as a part of his G.E. 293 teaching activities. This has involved high-speed filming of eight male and female subjects, from high school students to world-class soccer players. Analyzing the results obtained from that model using a mathematical model of the knee joint that he has developed, biomedical and bioengineering implications of the knee joint stress will be studied. Soon he will conduct a similar baseball study, jointly with Professor L. Daniel Metz; both studies are in cooperation with the Department of Physical Education.

Professor Harrison Streeter recently addressed the 1985 Tau Beta Pi Legislators, Educators, Administrators, Deans, and Students Conference on the topic "Professional Ethics of Engineers". He also moderated a panel discussion at the conference held in late February at the Ui/UC Levis Faculty Center.

## APPROVAL OF G.E. 324

G.E. 393, an experimental course until this time, has been approved as a permanent course and will henceforth be listed as G.E. 324, Digital Control of Dynamic Systems. It has been a high demand course, first taught in spring of 1984 and taught each semester since then. According to Professor Louis Wozniak, course chairman, who proposed and developed the course, enrollment has been running two-thirds undergraduate students and one-third graduate students, with a majority enrollment of mechanical engineers, but with many general engineers, and some electrical and computer engineers enrolled as well. Students who have taken the course report that industry interviewers are generally very interested to learn of their participation in this course.

## NEW FACULTY

Two new faculty members have joined the General Engineering faculty this spring. The first, Professor Scott A. Burns, recently received his Ph.D. degree in civil engineering from the University of Illinois. He received his B.S. degree in general engineering in 1980 and his M.S. degree in civil engineering in 1982, both from the University of Illinois.

His research interests concern the role of optimization in the design process and its interactive implementation. He has developed a general purpose interactive optimization computer program based on the method of Generalized Geometric Programming, which has been used in various graduate level courses in several engineering departments at the University of Illinois since 1982.

He has applied the optimization method to several classes of structural problems, including the design of highway bridge welded plate girders and cold formed steel beams, the member sizing of frames and trusses, and the shape optimization of continuum structures modeled by the finite element method.

Teaching both G.E. 241 and 242, he is exploring applications of the 4341 IBM CAD/CAM system to these areas of study. A group of G.E. 242 students under his supervision are using the system to model a structural component using the finite element method for the General Electric Company. Also, all 28 of his G.E. 241 students this semester are using it as a tool for structural analysis in their semester projects.

He is a member of ASCE, NSPE, ISPE, and ACM.

The second new faculty member, Professor Mary Bea Walker, was recently made Assistant Professor of Continuing Education in General Engineering, a position she holds jointly with her directorship of the Office of Continuing Engineering Education in the College of Engineering. Prior to this she was Training Coordinator at the U.S. Army Corps of Engineers Construction Engineering Research Laboratory (CERL), Champaign, 1982-1983.

Dr. Walker earned an Ed.D. in Adult and Continuing Education from the University of Illinois at Urbana-Champaign in 1982. Her specialty is continuing engineering education. She also earned a Ph.D. in French literature and linguistics from the University of Kentucky in 1970. Under a grant from the American Society of Civil Engineers, her current research focuses on the relationship between problem solving efforts of engineers and related learning activities.

She is a member of the American Society for Engineering Education.



Scott A. Burns



Mary Bea Walker

# ALUMNI NEWS

**1933** John M. Gustafson, who is now retired, and his wife, have moved to 2024 Lester N.E., Apt. 198, Albuquerque, New Mexico 87112.

**1941** Donald C. Koehler died December 4, 1984 in Holmdel, NJ. He was a Bronze Tablet scholar and earned a master's degree in electrical engineering from the Stephens Institute of Technology in New Jersey in 1950. Koehler was a supervisor in the physical design group of Bell Laboratories in Holmdel, NJ. Surviving Koehler besides his wife and four children are his mother and three sisters: Carol Koehler Beth '45, Alice Koehler Lindstrom '46, and Joan Koehler Klockner '48. His father was the late Benjamin Koehler, U of I. professor of crop pathology.

**1944** Christ D. Kacalief will serve as chairman of the 1985-86 Annual College of Engineering Fund Drive. Kacalief, president of Chris Kay Plastics Corporation, Frontenac, Missouri, became interested in plastics when he worked with Professor Findley in the Theoretical and Applied Mechanics Department in 1943 and 1944.

**1949** Gerald V. Sheffer, 2212 Brendon Ct., Dunwoody, GA 30338, started his own sales rep firm, Page Enterprises, in October, 1983, after a brief early retirement from Gould, Inc., where he had last served as national account manager.

**1956** Laurance S. Staples, Jr., 425 W. 49th Terrace, Kansas City, MO 64112, recently became a member of the University of Illinois Presidents Council.

**1957** Doyle Wilhite has been named Director of Development at REACT (Ryckman's Emergency Action & Consulting Team). He will be responsible for business development and planning. REACT environmental crisis engineers, with headquarters in St. Louis, Missouri, offer nationwide 24-hour emergency response for hazardous material accidents; environmental crisis engineering for the containment and control of hazardous materials and hazardous waste sites; hazardous materials analysis and disposal; and consulting engineering. Wilhite, a graduate of Washington University's MBA program, was formerly president of D. Wilhite and Son Ltd., a consulting firm. He has extensive experience in emergency management and was recently awarded a Navy commendation medal for his contribution to the Navy's Disaster Preparedness Program.



Doyle Wilhite '57



Russell C. White '62

**1960** Kenneth W. Burch has moved to 4908 N. Wash-tenaw, Chicago, IL 60625, where he earned an MBA in 1970 from Roosevelt University. He is a state specialist with the U.S. Environmental Protection Agency.

**1962** Russell C. White has been named executive vice president of the computers and communications group of McGraw-Hill Information Systems Company in New York. He lives in Millington, New Jersey.

**1963** Denny Anderson is a businessman in Wilmington, NC. He is owner and president of five companies, one of which owns and operates six McDonald's restaurants. Denny was one of the founders of the Ronald McDonald House in Durham, North Carolina; Elder Haus in Wilmington, North Carolina; and is now involved in bringing Christian radio to Wilmington. In 1977, he was selected as the Ronald McDonald Award winner, and in 1979, he was honored as North Carolina's Retailer of the Year by the North Carolina Broadcasters' and Retailers' Association. Denny is a deacon and president of the men's fellowship in Myrtle Grove Presbyterian Church as well as board member of several active ministries. He now serves on the board of directors of the full Gospel Business Men's Fellowship in Wilmington. Denny and his wife, Ellen, and their young son, David, reside at 2002 Hawthorne, Wilmington, NC 28403.

**Todd Sheldon Parkhurst**, University of Pennsylvania 66 Law; recently joined the Chicago law firm of Jenner & Block as a partner. He will assist in the organization and operation of the patent, trademark, and copyright department. A third generation alumnus, Parkhurst is the son of the late Don A. Parkhurst, '32, and the former Ruth Ellen (Shelley) Sheldon, St. Louis, '33 LAS, now of Park Ridge, IL and the grandson of the late Victor L. Sheldon, '03, St. Louis, MO, and Nellie Wetzel, '04 LAS, St. Louis, MO. His wife, Beverly Susler Parkhurst, '66 LAS, '69 Law, formerly of Decatur, Illinois, also practices Law in Chicago. Following a two-year active duty obligation in the Army, he served in the Army Reserve Corps of Engineers and was involved in such projects as the Oakley Dam Reservoir (Allerton Park), Monticello, Illinois. He is now a judicial hearing officer for the Illinois Pollution Control Board. He also teaches legal writing and research at John Marshall School of Law, Chicago, Illinois.

**1966** Thomas O. Knight is now managing director of General Data Communications, Ltd.-U.K., at Molly Millars Close, Molly Millars Lane, Wokingham Birks, RG 2QF, England.

**1968** Philip M. Kasik, 500 Monticello Blvd., Alexandria, VA 22305, recently became a partner in MPR Associates, a Washington-based consulting engineering firm, which provides engineering services for the power industry, other industrial concerns, and the government. He joined MPR in 1974 after earning a masters degree in engineering at the University of California in Berkeley.

**1970** James S. Schlifke, JD '73, has moved to 830 Bermuda Dunes, Northbrook, IL 60062, and has been named vice-president and general counsel of GNP Securities, Inc. in Chicago. James is the father of three: Adam, 8; Michelle, 6-1/2; and Alan, 3.

**William F. Young**, MBA '74, 863 Muirfield Trail, Marietta, GA 30067, recently was promoted to systems engineering manager at IBM in Atlanta, GA.

**1971** Bruce R. Holecek reports a new address: 945 Kealolu, Honolulu, Hawaii 96816-54399.



Denny Anderson '63



Bruce A. Huber '71

**Bruce A. Huber** has been named executive director of marketing and consumer products and vice president of marketing for sales of Zenith Electronics Corp. He joined Zenith in 1974 and has held a variety of positions in marketing and product planning. Prior to joining Zenith, he was project engineer with Proctor & Gamble Manufacturing Co. Huber and his wife, Joyce, live in Buffalo Grove. He holds an MBA from Harvard.

**Gregory T. Thies**, 3446 N. 500 East, North Ogden, Utah 84404, was promoted to controller of Morton's Thiokol's Wasatch division (the free world's largest producer of solid rocket propulsion systems with over 6,000 employees) this January. After graduation, he earned an MBA degree from the University of Michigan and then worked four years for Arthur Anderson & Co. in Chicago. He joined Morton Thiokol in Chicago in 1977.

**1972 Samuel E. Eskridge** has recently taken a new position with Black and Decker in Bridgeport, CT. He is in charge of advanced manufacturing planning for food preparation items in the housewares division, purchased by Black and Decker from General Electric.

**Louis J. Mancini** has been named Chevron Pipe Line Company's new ventures manager in San Francisco. He resides at 1417 Stonehedge Drive, Pleasant Hill, CA 94523. He says his ambition is to return to campus and beat Professor Metz at handball!

**1973 Michael S. Meronek** has moved to RR 1, Box 447, Heyworth, IL 61745, near Bloomington, where he is now contract administrator for the General Electric Company.

**1974 Lenard J. Duchnowski**, Pekin, completed work on an MBA degree at Bradley University in Peoria in December.

**1975 Marianne Andrasek Goren** was promoted to regional sales manager of K.W. Electronic Sales in Dayton, OH last November. She is "having a great time" managing the sales for southern Ohio, Kentucky and Indiana, a territory that includes seven million dollars in electronic component sales, and a staff of four.

**1976 Bruce R. Bartholomew** earned his master's degree in management at Northwestern University in 1980. He recently joined Citizen's and Southern National Bank in Atlanta, GA in their property management department. As engineering coordinator, he manages all energy management projects for C&S outside the Atlanta metropolitan area.

**Michael J. Cardoni** and his wife, Gloria, 2750 Magnolia Court, Columbus, IN 47201, are proud to announce the birth of their second son, Jeffrey Neil, born October 15, 1984.

**Robert P. Gombas** was recently appointed product manager for the Shower-Rite Corp. in Chicago. Last March the Gombas' daughter, Maureen Jean, was born.

**1977 Daniel N. Donahoe**, Tempe, Arizona, and his wife, Kaye, announce the birth of their second child, Rory. He was born January 14th and weighed 8 pounds 10 ounces.

**James R. Johnstone II**, 618 E. Washington, Hoopston, IL 60942, recently joined ESI, Inc. in Danville as manufacturing engineer. ESI is the manufacturer of two wind turbine generators, an 85 kilowatt machine with a 54-foot blade diameter and a 250 kilowatt machine with an 80-foot blade diameter. Both models, James adds, are downwind horizontal axis turbines supported by 80-foot towers.

**Thomas S. Zych**, 3401 Elm Drive, LaCrosse, WI 54601, married Linda Girzelak on June 9, 1984, who holds a BS in EE from Marquette University and is employed by the Trane Company as a marketing engineer. Tom is currently Trane's manager of variable air volume sales.

**1978 Glenn A. Betourne** was recently named sales and marketing account manager of the Schwitzer Division of Household Manufacture, Indianapolis, IN. He completed work on his MBA last December at Butler University in Indianapolis. The Betournes had their second child, Katerine Marie, last August.

**Thomas P. Fioch**, recently named Assistant Professor of Advanced Technical Studies at SIU's School of Technical Careers in Carbondale, IL, says: "I am glad to be teaching again, and it looks like I'll be here for a while."

**George W. Flathers II** is now group leader for the airborne navigation systems division of the Mitre Corp., McLean, VA, currently supporting research for the Federal Aviation Administration in the area of automatic landing systems. He and his wife, Jani, who reside in Leesburg, VA at 110 Carlton Street, had their first child, Meghan Leigh, in April of 1984.

**Sharon Stefanik Kelly**, now of 1518 W. Thomas Avenue, Arlington Heights, IL 60004, earned a masters degree in management in 1982 from Northwestern University, and was married to Kevin P. Kelly, a 1974 U. of M. business major, on June 2, 1984. She is advertising specialist for the Commonwealth Edison Company in Chicago.

**1979 David J. Coulombe** and his wife, Eileen Fitch Coulombe, B.S. in LAS, '79, of Skokie, IL, now have two children: a son, Timothy, age 2-1/2, and a daughter, Amanda, born last September. Eileen is taking time off from her career in personnel administration to be home with the children. David is a product engineer with Reliable Electric/Utility Products in Franklin Park, IL. He is also working on an MBA degree from DePaul University and expects to finish in late 1985.

**Jay R. Goldberg**, Glenview, IL, commutes to Racine, Wisconsin, where his new position as senior project engineer with the Medical Engineering Corporation involves design and development of silicone implants for urological and plastic surgery.

**Michael R. Huber** of 1500 Sherwood Drive, 1J, Fairfield, OH 45014 has taken a new job with General Electric's jet engine division in Cincinnati, in turbine frame design. He saw **Silvana A. Medina**, '80, recently in California and

reports that she is very happy with her job at Hewlett-Packard in Cupertino. (Editor's note: We regret that we assigned the wrong gender to Silvana in the last newsletter.) Daniel K. Mankivsky, now a sales engineer with Walter Process Corp. in Aurora, IL (a subsidiary of CBI Industries), recently spent two years in Abu Dhabi as project engineer of a liquified natural gas (LNG) tankage project. He is currently working on preparation of a proposal for construction of LNG storage tanks in Western Australia.

John W. Peterson, 1705 Richard West Drive, Glenview, IL 60025, who is pursuing a master's degree in engineering management at Northwestern University, has become an NROTC instructor in NU's Naval Science Department.

Larry D. Will, 617 W. Culhoun, Springfield, IL 62702, is now a pilot for American Airlines and is based out of Chicago's O'Hare Field. His wife, Elise, is a sales manager for Striglos' Office Furniture in Decatur, IL.

**1980** Peter M. Collins, now of 561 W. Vine Street, Hinsdale, IL 60521, earned his MBA in May of 1984 at Northern Illinois University. He now is a project engineer at Illinois Tool Works Deltar Division.

Jessica Dilworth Geary, who worked for the U.S. Army Patriot Project office on surface-to-air missiles systems for 3-1/2 years, left the federal government in April, 1984 and joined a small private firm, CAS, Inc., in Huntsville, Alabama, specializing in weapons systems analysis. She was married to Shawn Geary, a shop foreman for Chrysler Electronics Division, in March 1984. The Gearys, who live at 3704 C Squaw Valley Drive, Huntsville, AL 35805, are great hockey fans, especially when the Illini play U. of A.

Eugene V. Dunn, Jr., 237 Plum Street, Aurora, IL 60504, earned his master's degree in management last August at Northwestern University and became product engineer for AT&T Consumer Products in Montgomery, IL.

Brian G. Eberle now lives at 350 E. California Blvd., #120, Pasadena, CA 91106. Since graduating from UCLA's College of Law, Brian has been serving a clerkship with Judge Hall, who was recently promoted to the U.S. Circuit Court of Appeals, and Brian's work has taken him to Honolulu, Denver, San Francisco, and Seattle. He has accepted a position with Sherman and Howard, a large law firm in Denver, beginning next October.

Robert S. Gordon, 55 W. Broadway II-7, White Plains, NY 10601, earned his J.D. degree in June of 1983 at Stanford University in law and business. After working for various law firms and becoming a member of the California bar he clerked for Chief Judge Walter J. Cummings of the U.S. Court of Appeals, Seventh Circuit, in Chicago. Last August he finished his clerkship and accepted a position with First Boston, an investment bank, in New York, where he specializes in mergers and acquisitions. He finds both his legal and his engineering backgrounds extremely helpful in valuing and representing companies in merger situations.

Edward J. Jaselskis has been on assignment for Exxon as a field engineer at a large open pit coal mine in the Guajira Peninsula of Columbia, South America. Next fall he will embark on a Ph.D. program in Civil Engineering at the University of Texas, majoring in construction management. He earned his master's degree in 1982 from M.I.T.

**1981** Donald W. Balas, 425 Marcy Street, Apt. C, Ottawa, IL 61350, has recently become a civil/environmental engineer for Robert Renwick & Associates, Ottawa. Richard A. Lisa, 30 Suncrest Drive, St. Peters, MO 63376, serves as district sales manager to all divisions of the McDonnell-Douglas Corp. and Emerson Electric Co., the Motorola Semiconductor Products Sector, Inc. He married

the former Vicki Johnson (B.S. in Business Admin., '81, UIUC) and they are expecting their first child this spring.

Lisa R. Perenchio, who is an environmental engineer with the U.S. Environmental Protection Agency in Chicago, IL, writes: "My position in the Underground Injection Control Section is very challenging because it is a new section in the EPA. We are basically building from scratch and are regulating part of the business world which has never been regulated before.

Roger H. Stein, who since graduation has earned law and J.D. degrees, has been named an associate in the law firm of Neuman, Williams, Anderson, and Olson, 11 W. Washington St., Chicago, IL 60602, which specializes in patent, trademark, copyright, and unfair competition law, associated antitrust causes, and technology related matters.

**1982** Steve DuBois, 4662 Helpert Court, Pleasanton, CA 94566, is a sales engineer in Allen-Bradley's industrial automation controls division in Hayward, California. Peter M. Jarrell reports a career change to CAD/CAM systems support. Now a programmer-analyst in engineering information systems for Black & Decker Corp. in Towson, Maryland, Peter expects that his concentration will be on computer-aided engineering: solids, surface modeling, 2-D and 3-D IBM CADAM graphics, and finite element method modeling on analysis.

David M. Lipari, MBA '84, is now a market analyst for Motorola Communications and Electronics, Inc., Schaumburg. His new address is 1410 Valley Lake Drive, Apt. 325, Schaumburg, IL 60195.

**1983** Paul V. Fryling is now an applications engineer with Space Microwave in Santa Rosa, CA.

Michael W. Hartley, 301 Enterprise, #201, Mt. Prospect, IL 60056, is now attending Northwestern's night MBA program. He is a manufacturing engineer with Illinois Tool Works, Fastex Division, in Des Plaines, IL.

Michael I. Hutchens, 11155 Ruesta Drive, #9, St. Louis, MO 63138, was married in August, 1984, to the former Rose Salamanca, and has been working since his graduation as systems engineer for the McDonnell-Douglas Astronautics Co. in St. Louis.

Thomas K. O'Brien visited the campus for homecoming. Tom is with Danly Machine Corp. in Chicago.

Kim Voss Schuelke, 1030 Lime Spring Way, Louisville, KY 40223, recently married Marcus E. Schuelke, '83, aeronautical engineering. Both are employed as product design engineers by General Electric's major appliance business group in Louisville.

**1984** David Changnon expresses great enthusiasm for his program at Colorado State University, which will lead to a master's degree in meteorology, but he says his studies leave him with very little time to enjoy Fort Collins and its environs. His address is 1117 City Park Avenue, Ft. Collins, CO 80521.

Denise Flora, now of 1524 E. Lafayette, Alameda, CA 94501, is enrolled in a master's program in mechanical engineering at the University of California at Berkeley. She is working half-time at the Lawrence Berkeley Laboratory doing building energy use research.

Paul A. Hagberg, 4805 N. Wolcott #3B, Chicago, IL 60640, now serves as assistant manager, minicomputer methods and procedures for Illinois Bell Telephone Company.

Kevin W. Krak, 2429 Lake in the Woods #715, Ypsilanti, MI 48197, is now a project engineer for Mobil Oil Corp. and has begun an MBA program at the U. of M.

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## PARKHURST MEMORIAL

The active 416th Engineer Command Reserve Unit and many retired members as well as friends and associates of the late Don A. Parkhurst, '32, Park Ridge, Il. gathered recently at the Gibson Armory, Chicago, Illinois in honor of the memory of the first commanding general of this unit. Ms. Parkhurst presented his former brigade with a plaque highlighting the military career of Brigadier General Parkhurst who was Commanding General, 416th Engineer Brigade (USAR) from 1952 through 1960.

Throughout a distinguished military career of more than 29 years, General Parkhurst served his country with honor. During World War II he was stationed in Europe and commanded the 816th Engineer Aviation Battalion. He fought in battles and campaigns of Northern France, Normandy, Rhineland, and Central Europe and was awarded the Croix de Guerre. The honors bestowed upon him by the United States government included the Bronze Star and the Legion of Merit.

While on campus, Parkhurst was commissioned in ROTC his junior year. After graduation, he specialized in refrigeration engineering for 30 years as a manufacturer's representative, president of his own company, and consultant on overseas projects for the government.

Parkhurst's immediate family include the following alumni: his wife, Ruth Ellen (Shelley) Sheldon, '33 LAS, Park Ridge; his son, Todd Sheldon Parkhurst, '63 General Engineering, '66 Law, University of Pennsylvania, Chicago; and his daughter-in-law Beverly Susler Parkhurst, '66 LAS, '69 Law JD, Chicago.

Parkhurst died on November 4, 1981, after an extended illness.



The family of the late General Don A. Parkhurst '32, with a plaque highlighting his military career are, left to right, Ruth Sheldon Parkhurst, Todd S. Parkhurst, and Beverly Susler Parkhurst.



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