



GENERAL ENGINEERING NEWSLETTER

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GE Alumni Directors Will Meet on May 20 For Election Planning

A meeting of the board of directors of the General Engineering Constituent Alumni Association has been called for Friday, May 20, in Urbana.

President Gary Allie of Chicago said the annual Spring meeting of the board is for the election of officers and to discuss future plans for the organization.

"Anyone who graduated from General Engineering is welcome to attend the meeting" Allie said. "We are looking for new ideas and new interest to make our organization more effective and more enjoyable to our alumni."

The directors will gather at 12 noon for a luncheon in the Illini Union. The business session will begin at 1:15 p.m. in Room 117 Transportation Building.

Allie also announced that the annual meeting will be held on Friday, Oct. 7, with a reception and meeting in the Transportation Building.

A tent-party for the alumni, faculty and friends of the College of Engineering will be held on Saturday, Oct. 8 just west of Memorial Stadium. Following the buffet luncheon the group will attend the Illinois—Purdue football game.

Present officers of the Association include:

President—Gary Allie, Chicago; First Vice President—Thomas Flock, Carterville; Second Vice President—Bradley O. Motier, Rockford; Secretary—Treasurer—Bob Roads Springfield; Past President—George R. Armstrong, Elk Grove; and Board Members—David Burge, Cleveland; Ron Hausch, Des Plaines; Leroy Kendricks, Urbana; and Dick Reynolds, Rockford.

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

Professor Streeter Receives Annual Pierce Award

Prof. Harrison Streeter is recipient of the Stanley H. Pierce Award given annually by the College of Engineering.

It was announced at the St. Pat's Ball on March 5.

The award established in memory of Stanley H. Pierce is given to the faculty member judged to have "done the most to develop empathetic student-faculty cooperation."

GE Faculty Receive 25 Grants Totalling More Than \$895,500

Faculty members of the Department of General Engineering have been awarded 28 grants for research or educational innovation during the 1987-88 academic year.

The grants range in amounts from \$140,167 to \$3,398. Some are for more than one year on a renewal basis.

Sponsors include National Science Foundation; National Wheelchair Athletic Association; Ralston Purina Co.; US Bureau of Reclamation, Department of Interior; Association of American Railroads; US Army Construction Engineering Research Laboratory; Sundstrand Advanced Technology Group; DOE Lawrence Livermore Laboratory; NASA; Monsanto; Teletronix, AutoCad; Weyerhaeuser; SIU Technology Commercialization Center; and several University of Illinois funding agencies.

Faculty recipients and the title of their projects include:

—Prof. Scott A. Burns:

"CAE Laboratory"

"Mathematical Sciences Research Equipment"

"Cutting Tool Analysis"

—Prof. Thomas F. Conry:

"Fundamental Design of Rail Car Roller Bearings"

"Failure Mechanisms and Final Stage Failure Analysis of Railroad Roller Bearings"

—Prof. Wayne J. Davis:

"Hierarchical Simulation with Parallel Computing"

—Prof. W. Brent Hall:

"Reliability Models of Load Testing"

—Prof. Edward N. Kuznetsov:

"Evaluate Functional, Structural, and Development Performance of a Prototype Membrane Antenna"

—Prof. Manssour H. Moelzadeh:

"Design and Development of a Wheelchair Locomotion Specific Arm-Crank Ergometer"

"Design and Development of a Novel Propulsion System for Human Powered Hydrofoil"

"Application of Biomechanic Techniques in Early Diagnosis of Canine Hip Dysplasia"

(Continued on page 2)

Department Head Corner



Dickens' opening lines of the *Tale of Two Cities*, "It was the best of times, it was the worst of times . . .," could be used to describe the situation we face at the University of Illinois. We have excellent students who are eager to learn and progress to even higher levels of accomplishment. Our faculty are among the best in the world and they provide a unique resource to the University and the State of Illinois that, if lost, would be extremely hard to replace. As many of you already know, the University suffered a budget cut placed on all of education in the State for this fiscal year and, unless priorities are reordered for education or an increase in tax revenue is approved, the University will again have to reduce its budget for the next fiscal year.

Our faculty have not had an increase in salary for over twenty-months. Funds for operating costs have been severely curtailed. It is both sad and frustrating that the level of support for education in the State of Illinois puts us near the bottom of all states in support of education.

Last year many of our alumni(ae) rallied to our support and this year the need for your support and goodwill is even more important.

The department continues to experience an acute shortage of space—primarily in faculty office space and laboratory space. Several proposals for remodeling have been forwarded to the College.

Despite the gloomy situation we face, our morale is reasonably high; we are hopeful that this is just a short term problem. We are actively planning the development of a new Computer Aided Engineering Laboratory under the direction of Professor Scott Burns and new initiatives in the *Theory of Design* are underway. Our future must remain bright and full of hope for our mission is to educate our future leaders of the State and Nation.

Faculty Assistants Rated "Excellent"

Three faculty members and five teaching assistants received "excellent ratings" by student evaluations during the fall semester.

Profs. Manssour H. Moeinzadeh, Harrison Streeter, and Thomas R. Woodley received excellent status.

Teaching assistants receiving the designation were **Edward Dougherty, Lisa Metzger, Mike Murphy, Joan Olson, and Karin Weidner.**

Faculty Grants (Continued from page 1)

—**Prof. Juraj V. Medanic:**

"Modern Controls Design Methodology"

"Large Scale Systems Control"

—**Prof. Michael H. Pleck and Prof. Thomas R. Woodley:**

"Support of an Ongoing GE 103 Micro—CADD Laboratory"

"Extension of Micro-CADD Laboratory Services"

—**Prof. Henrique L. M. dos Reis:**

"Nondestructive Evaluation/Characterization of Advanced Ceramic Matrix Composites"

"Nondestructive Evaluation of the Zirconia Ceramic Bearings"

"Nondestructive Evaluation of Adhesive Bond Strength in Safety Glass"

"Nondestructive Testing of Wood Products"

—**Prof. Mark W. Spong:**

"Intelligent Forging/Interfacing Robot and Programming"

"Nonlinear Methods in Robotic Control"

—**Prof. Mark G. Strauss:**

"Engineering Student Project for the Disabled"

—**Prof. S. Daniel Thompson:**

"Aggregate Planning for Capacitated Problems by Integrating Simulation and Linear Programming"

—**Prof. Louis Wozniak:**

"Develop Speed Governing Control Equipment"

Gifts Being Accepted For Dobrovolny Fund

Donations are still being accepted by the Department of General Engineering for the Jerry S. Dobrovolny Leadership Scholarship Award.

The special fund was established last fall in honor of Dobrovolny who retired in November after 28 years as head of the department.

The goal for the fund is a \$10,000 endowment. Each spring a \$500 grant will be awarded to a student who has completed 90 semester hours in the GE curriculum and has attained a minimum of 4.0 grade-point average.

Other criteria include demonstrated outstanding qualities such as active participation in student professional societies campus organizations legislative initiative or any other recognized efforts.

Contributions may be sent to Department of General Engineering, 117 Transportation Building, 104 S. Matthews, Urbana Il. 61801.

A paper, "A Decision Support for Part Width Inspection Using a Vision System" will be presented by **Adjunct Prof. R. L. Ruhl** and **M. L. Death**, MicroSwitch Honeywell Division, at the Robots 12 Vision 88 Conference, June 5-9 at Detroit, Mi. It will later be published in the Proceedings of the Vision 88 Conference SME.

J. V. Medanic has named an Associate Editor of the IEEE Transactions on Automatic Control with responsibilities for processing papers related to design methodologies and techniques.



Student award winners at the Annual Banquet are (L to R) Harry S. Wildblood and Mary Ann Widing, William A. Chittenden Award; Sharon Lee Ward, Elizabeth Ruff Award; and Jacquelyn S. Beller, first recipient of the Jerry S. Dobrovolny Leadership Scholarship.

Lincoln Arc Welding Cites Six GE Students

Six General Engineering students have received recognition and cash awards in the 1987 Student Engineering Design Competition of the Lincoln Arc Welding Foundation.

Ethan Franklin, Barrington; **John Lach**, Arlington Heights; and **Pamela Miller**, Pittsfield; won the Silver Award and split a \$750 cash award for their project, "Design Optimization of Chair Back Mechanism." **Prof. Scott Burns** was faculty advisor.

The second award of \$250 will be shared by **Mun Young Chsi**, Chicago; **Gabrielle Robinson**, Midlothian; and **Michele Wierman**, Rockford; for their project "Thermal Properties of Intercalated Graphite Fiber Composites." Their faculty advisor was **Prof. H. L. M. Reis**.

The annual awards recognize student achievement in the design, engineering or fabrication of welded manufactured products, structures or related research.

In the past 17 years, G.E. students have received 20 awards.

Professor Wayne J. Davis is continuing to conduct research in automated manufacturing. Recently he received a National Science Foundation Equipment grant to develop a Hierarchical Simulation Laboratory to test computational algorithms under development. His primary focus has been toward addressing the issues of real-time decision-making in an uncertain environment. Such problems arise in the area of real-time production scheduling. During the last year, Prof. Davis has made numerous presentations of his research. He recently returned from a two stay in Europe where he attended an international conference on production research and visited INRI-Lorraine Research Institute at the University of Nancy in France. This institute also is addressing the issues of automated manufacturing. This summer, Professor Davis plans to spend another month at the Automated Manufacturing Research Facility which is located at the National Bureau of Standards in Gaithersburg, Maryland.

Gamma Epsilon Names '88 Spring Initiates

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

They are: **Laura A. Antonacci**, Hampshire; **Elizabeth A. Auer**, Park Ridge; **Philip J. Blizzard**, Elgin; **Tony Matthew Carr**, Milan; **William L. Chapin**, Chatham; **Stephanie A. Connolly**, Deerfield;

Cyrus Ratan Daboo, Bloomingdale; **Kimberly A. Duckett**, LaGrange; **F. Andrew Duerkip**, Park Ridge; **Linda Marie DuPont**, Granite City; **Robert Leif Erickson**, Park Forest; **Linda M. Gogola**, Oak Forest;

Joseph Martin Hughes, Jr., Wheaton; **Tani Husak**, Chicago; **Pamela A. Lappin**, Naperville; **Angela Locascio**, Des Plaines; **Brian L. McKay**, Elgin; **Jayanti Reddy**, DeKalb;

Carolyn S. Strittmatter, Bolingbrook; **John Eric Vogl**, Itasca; **Gregory M. Vydra**, Chicago; **Michael K. Walter**, Chicago; **John D. Whittenbarger**, Charleston; and **Timothy K. Wickstrom**, Park Ridge.

Lisa Marie Dullam, Champaign; **Valerie Elizabeth Keller**, Peoria; **Tracey L. Mears**, Springfield; **Richard B. Sugarman**, Skokie; **Brent S. Virgin**, Lebanon; and **Kris A. Warmann**, Elmhurst.

J. V. Medanic presented an invited paper, coauthored with **W. R. Perkins** of the Dept. of Electrical and Computer Engineering, at the International Conf. on Computational Engineering Science held in Atlanta, April 10-14, 1988.

Prof. Manssour H. Moeinzadeh attended the joint annual meeting of the Orthopedic Research Society of America and American College of Orthopedic Surgeons held in Atlanta, GA., Feb. 5-8, 1988. At the meeting, he presented to the Executive Committee of the American Society of Biomechanics, his chairman's report on the 1988 annual meeting of the Society to be held at UIUC in September, 1988.



Three persons from the GE Department have won College of Engineering Awards. Shown (L to R) **Prof. Harrison Streeter Stanley H. Pierce** Award; **Elizabeth Riordan**, Grace Wilson Award; and **Prof. L. Daniel Metz** Outstanding Engineering Advisor Award. (See Honors P. 5)

J. S. Dobrovolny Named Distinguished Alum By Gamma Epsilon

Jerry S. Dobrovolny, former head of the Department of General Engineering, has been named recipient of the 15th Gamma Epsilon Distinguished Alumni Award.

The plaque was presented by **Chris Crawford**, President of Gamma Epsilon, at the Annual General Engineering Honors Banquet on April 21, 1988.

Dobrovolny retired from the University of Illinois in November 1987 after 42 years service. He served as General Engineering head since 1959.

Born in Chicago and reared in Riverside, IL, Dobrovolny attended the U. of I. He received a B.S. degree in General Engineering in 1943 and a M.S. in Mechanical Engineering in 1947. He also did extensive graduate work towards a M.S. in Geology in 1951-52.

Dobrovolny became a part-time instructor in the G.E. drawing department in 1945 and became full-time in 1946. He was named assistant professor in 1953 and associate professor in 1957.

He was promoted to professor and became head of the G.E. Department in September, 1959.

During his long tenure as head of the G.E. Department, he recruited a high quality faculty and established a national reputation for quality and innovative instruction in project design offered to G.E. students. Also he established strong ties with industry.

Dobrovolny is a registered Professional Engineer in the State of Illinois.

He has been very active in state, regional, and national educational and professional organizations and has served as chairman/president and board member of many. Also he is widely sought as a consultant in these fields.

Early in his career, he worked summer vacations with the Illinois State Highway Department, the State Geological Survey, and did research in soil mechanics and foundation engineering.

A prolific writer and speaker on technical education, he has been involved in a long list of research projects within the University and for the state and nation. He also is frequently called on for public service both nationally and locally. He has served on many major University committees during his tenure.

Dobrovolny holds membership in many professional societies and has been conferred with numerous honorary memberships and citations.

He is devoting much of his time to writing a history of the G.E. department. He also continues his interest and study in the history of engineering, philosophy and methods of engineering, as well as special problems.

Dobrovolny and his wife, Jo, maintain their home in Champaign, although they spend some of their time in Florida. They are the parents of a son and a daughter, both attorneys.



Distinguished Alumni Award Recipient Jerry S. Dobrovolny (right) is shown receiving his certificate from Christopher A. Crawford (left) president of Gamma Epsilon.

GE Open House Exhibits Capture High Awards

On March 4-5, the Department of General Engineering proved to the world that we have "Accepted the Challenge". Four separate awards were won in the individual exhibits categories, making this Open House the most successful ever.

The Presentation entitled "The Walk of Life", showing the immense capabilities of computer graphics with Auto-CADD, won first prize in the category of projects that show engineering in today's society. The success of the presentation was largely due to the many hours of computer work by **Jim Michaels, Eric Hedlund, Jacki Beller, Jeff Baker, Laura Hoffman** and especially **Eve Sierocki**. A graduate student, **Eve Sierocki** in GE, organized this exhibit and with the help of three other GE 103 teaching assistants, **Mike Simmons, Karin Weidner, and Spiro Deligiannis**, showed presentations every hour.

Three exhibits prepared under the supervision of **Prof. M. H. Moeinzadeh** won 2nd place awards. These exhibits were the Robotic Feeding Device, the Wheelchair Athletic Training Device, and Chaotic Dynamics in the CAEDS lab.

The Robotic Feeding Device was an interdisciplinary project shared with the Bio Engineering department. The device shows one of the latest advances in aids for the handicapped.

Another exhibit winning second place was a Wheelchair Athletic Training Device. This project is the work of graduate students **Dean Brushingham** and **Rob Leland**.

Finally, Chaotic Dynamics was a graduate project making use of the Computer-Aid-Engineering-Design (CAED's) lab to model Newton's Method.

This year, the Open House was organized by student directors, **Laura Hoffman**, Illinois Society of General Engineers; and **Bob Kosberg**, Gamma Epsilon. They expressed their thanks to all the students and faculty who made the week-end a tremendous success.

**Send us *your* personal items.
Keep your *address* current.**

G.E. Department Honors Presented April 21 at Awards Banquet

General Engineering awards were presented April 21 at the annual awards banquet at the University Inn.

Among the recipients were several students, a faculty member and an alumnus. The event is jointly sponsored by Gamma Epsilon and the G. E. Department.

James E. Michaels, Peoria, received the Edward S. Fraser Award as the outstanding senior scholar in GE. The award includes \$200 in cash and a plaque. The student's name is added to a permanent wall plaque in the Transportation Building.

The Randolph P. Hoelscher Award was presented to **Sharon Lee Ward**, Chicago. The \$100 grant and certificate is annually given to the outstanding junior student based on scholarship, leadership promise, activities and cultural development.

Jerry S. Dobrovoiny, '43, retired head of the GE department, was selected by Gamma Epsilon for the Distinguished Alumni Award. (Details appear in a separate item.)

Prof. David C. O'Bryant was recipient of the Outstanding Professor Award. The honoree is determined by Gamma Epsilon and receives \$500 and a plaque.

The Elizabeth Ruff Award of \$500 was presented to **Sharon Lee Ward**. The prize goes to a sophomore or junior female student who has earned a 3.75 or higher grade-point average who shows sincerity, unpretentiousness, consideration and a supportive nature.

The first recipient of the newly established Jerry S. Dobrovoiny Leadership Scholarship also was announced at the banquet. The award went to **Jacquelyn S. Beller**, Pontiac. Criteria for the award is demonstrated outstanding leadership qualities as evidenced by such activities as participation in student professional societies, campus organizations, academic scholarship, faculty-student senate, off-campus organizations, legislative initiative or any other recognized efforts.

The College award for the Outstanding Engineering Advisor was given to **Prof. L. D. Metz**. It was made by the Dean's Student Advisor Committee.

Other awards included:

Brent O. Larson Project Design Award (for 1987 calendar year): \$150 each to **Mun Young Choi**, Lincolnwood; **Gabrielle Robinson**, South Holland; and **Michelle G. Wierman**, Rockford, for their design "Thermal Conductivities of Intercalated Granite Fiber Composites." It was sponsored by Sundstrand Corp., Rockford. **Prof. H. L. M. dos Reis** was faculty adviser.

Herbert J. Sprengel Award: \$100 to **Kent A. Miller**, Urbana, for a balsawood project.

Two graduate students received the William A. Chittenden Award. **Mary Ann Widing**, now of Argonne Laboratories, and **Harry S. Wildblood** an independent engineering consultant, will each receive \$1,000 cash awards and a certificate.

Criteria for the award are high-quality scholarship, research skills teaching and/or research accomplishments and professional promise.



The four top award winners at the Annual Awards Banquet were (left to right): Prof. David C. O'Bryant, Outstanding GE Professor Award; James E. Michaels, top graduating senior; Sharon Lee Ward, outstanding junior student; and Prof. Jerry S. Dobrovoiny, Distinguished Award.

It also was announced that two GE students and a faculty member had won University or college honors.

Michaels has been designated as a Bronze Tablet Scholar. His 4.971 grade-point average places him in the top three percent of all University graduates.

Elizabeth A. Riordan, Herscher, is recipient of the Grace Wilson Award given annually to the most outstanding senior woman in the College of Engineering.

Faculty Notes

Prof. Manssour H. Moeinzadeh presented a paper, "Effect of Trunk Position of Wheelchair Athletes Upon Coasting Speed," at the 16th National Conference on Physical Activity for the Exceptional Individual held at the California State University in Fresno, CA, Oct. 22-24, 1987.

Adjunct Prof. R. L. Ruhl and **J. D. Rowe** non-resident GE master's candidate presented a paper, "Combining Scene Data with Trajectory Information for Effective Accident Simulation," at the International Congress and Exposition Society of Automotive Engineers Feb. 29-March 4 at Detroit, Mi. The paper will be published in "Accident Reconstruction—State of the Art" by SAE.



The 1988 Outstanding Professor Award winner Prof. David C. O'Bryant was cited by Gamma Epsilon at the annual GE Awards Banquet. Left to right are Christopher A. Crawford, GE president; Troy R. Pawelko, GE secretary and presenter of the award; and Prof. O'Bryant.

G.E. Junior Starts Own Computer Firm

An article in the Daily Illini recently featured **Louis Wozniak, Jr.** who has built his own computers, calculators, and even started a computer software and hardware company.

The 20-year-old General Engineering junior founded Chipper, a firm that markets two of his products: Porta-Link and Databus. His father, G. E. Prof. Louis Wozniak, is his business partner.

Required to take Electrical Engineering 260, a circuit design class, Wozniak went one step further, he marketed the computer programs that helped him do well in the class.

Wozniak programmed his Sharp pocket computer to aid him in his calculations when he took EE 260 exams. Because his pocket computer had such a tiny keyboard, it was frustrating for Wozniak to peck in long programs with one finger.

So Wozniak created software and a peripheral card to hook up the portable Sharp computer to a desktop IBM or Apple computer. Programs written in Basic could then be typed on the keyboard of the larger computer and then loaded into the small pocket computer.

"This program is not only good for students who use computers during tests but also good for engineers and estimators who travel a lot and need to use their programs wherever they go," Wozniak said.

Wozniak also invented Databus, which gathers data on the Sharp Computer and loads it into a larger computer for analysis.

"A meter reader can walk from meter to meter, clicking in the readings on the portable Sharp computer, and later connect the Sharp to an Apple or IBM, which would be waiting with a database program," Wozniak said.

Wozniak also said that Porta-Link and Databus are inexpensive when compared to similar products in the market. He is the first person to have designed such a system for the Sharp Electronics Corporation.

Currently, companies are manufacturing Porta-Link and Databus for the Wozniaks. The United States

Department of Transportation and the University's Construction Engineering Research Lab have already bought some Chipper products. Porta-Link and Databus were displayed during the 1988 Engineering Open House.

Designing high-technology computer systems is nothing new to the young Wozniak. He has been at it since he was a high school student in Mahomet, Ill.

Wozniak began his programming career when his father forbade him from playing video games.

While a high school junior, he programmed for CERL, the Construction Engineering Research Laboratory of the United States Corps of Engineers. He was flown to different areas of the country to write computer programs for government inspection needs.

At age 16 he created a voice-recognition program for a pocket computer at CERL.

Wozniak also won first prize at a science fair with his voice-operated calculator. "You can say, 'Two plus two equals . . .'" and the calculator would display the number four," he said.

The computer whiz later built his own computer during his freshman year at the University. The computer could only be programmed in machine-language, however.

Wozniak has been working on designing another computer for the United States Bureau of Reclamation during the last two years — a digital speed sensor for hydrogenerators. His machine can figure out the speed of a rotating turbine shaft as it is turned by water. This spring, the Wozniaks will travel to the New Melones power plant in California to test it.

Both Wozniaks have invested a lot of capital and time into their new company. "I spent hundreds of hours working on Databus and Porta-Link," said Wozniak, Jr. "Last summer, I'd work at CERL during the day and work at my programs during the night — every night."

Even if the company doesn't work out, young Wozniak said he still benefited from the experience. "Porta-Link helped me get a high grade in EE 260," he said. "I still use it in my other engineering classes."

ALUMNI NOTES

1915 Word has been received that **Edward Tilden Brown** of Burlington, N.C. passed away on July 25, 1987.

1952 **Harry E. Hawkins** has retired and moved to 1008 Dartmouth, Wheaton, IL.

1953 **William E. Hamrick**, Crest Hill, IL., has retired after 35 years with the U.S. Dept. of Energy, Chicago operations office. He says "my engineering degree with its quantification and analytical qualities have held me in good stead throughout my career."

1957 **Rob Little**, MBA '60, Harvard, is president of Waddle Manufacturing, Inc. of Longmont, CO, a firm he acquired last spring. For the past 28 years he has been in the corporate world most recently with Owens-Illinois.

Prof. R. I. Stephens of Univ. of Iowa, MS '60, has been re-elected to the executive committee of the SAE Fatigue Design and Evaluation Committee and the ASTM E-9 Committee on Fatigue. He is task group Chair of the SAE round robin low cycle fatigue program of A356-T6 cast aluminum and will be editor of a book on that metal.

1958 **Dennis Paul Galle**, MBA '73, Univ. of Chicago, of Mokena, IL. is Vice president of Commonwealth Edison Co., Chicago.

1963 **John Graham Laurenson, Jr.** of Jacksonville, Fl., is President of American Bio Tech in that city.

1967 **Brian R. Bachman**, MBA '69 Univ. of Chicago, is President and CEO of General Semiconductor Industries, Tempe, AZ. He resides at Paradise Valley, AZ.

Richard Lewis Bacht, MBA '87, Old Dominion Univ., has moved to 2529 Inlynnview Rd., Virginia Beach, VA. He is in the U.S. Navy.

1969 **Thaddeus S. Figus**, JD '72, has been employed as chief counsel of Daig Corp., Minnetonka, MN. He resides at 1823 Fremont Ave., South, Minneapolis, MN.

1970 **J. P. Krakora**, MBA '86, Univ. of Chicago is Director of Network Strategy at Ameritech, Chicago. He lives in Naperville, IL with his wife and four children. A son is planning to enroll at the U. of I. in 1989.

Bruce A. York, MBA '76, Univ. of Del., has been named Director of Nonoperating Personnel Services, Omaha NE.

1971 **Mark A. Brenner**, Glencoe, Mo., is Vice President of TMI, Chesterfield, MO.

1973 **Michael S. Meronek** of Williamsburg, VA., has been appointed Supervisor-Material Control, Allied-Signal/Bendix Electronics, Newport Nes, VA. The Bendix Newport News facility builds automotive electronic fuel injectors, anti-skid braking valves and engine controls. Meronek received Certified Purchasing Manager designation from the National Association of Purchasing Managers in October, 1987.

Michael F. Purcell, MS Computer Science, Villanova Univ., has been named staff software engineer at Baxter Healthcare Corp., McGaw, IL. His responsibilities include research and design of the future computer system architecture including implementation of distributed data bases and distributed business systems on the corporate network.

1974 **Mark C. Benton**, M.S., Ph.D., M.E. '75-'78, Univ. of Wisconsin, has been promoted to senior supervisor of the DuPont Engineering Technology Lab, Experimental Station, Wilmington, DE. He lives at Newark, DE.

Hardin T. James, Jr. is a Manufacturing Engineering Group Leader at Carnes Co., Inc., Verona, WI. He writes that he is interested in the manufacturing programs being developed in the GE Department. James who is working toward an MBA at the Univ. of Wisconsin resides at Mt. Horeb, WI.

D. Mike Saville has been named a project engineer at Hilco Technology, St. Louis, MO. The firm is involved with selling and applying factor automation software and services. Saville lives at Webster Groves, MO.

1975 **Alan R. Belair** of North Tonawanda, N.Y., has been named supervisor of air separation plant design of Union Carbide Corp. His group engineers the design of the cryogenic distillation equipment required to separate air into its constituents.

1976 **Bruce R. Bartholomew**, M. of Management '80, Northwestern, is now Vice President, Manager-Major Buildings for Citizen and Southern National Bank, Atlanta. He manages a staff of 26 and is responsible for the operation of six office buildings (comprising an area of 1.5 million square feet) in metro Atlanta. He resides at 3644 Longfellow Trail, Marietta, GA.

Louis Estes Gantz, Northbrook, IL., is President of Louis Estes Gantz, P.C. his own accounting firm. His company specializes in management advisory services including computer installations. The firm also provides business accounting services and tax services for business and individuals.

John B. Holz, M.S. (GE) '81, was recently married to the former Veronica Stroup. Holz is manager, field operations, IBM Corp., Milford, CT. and his wife also is with IBM. The couple resides at 67 Down St., Fairfield, CT.

1977 **Jeffrey Scott Carlson**, M. of Divinity '86, Fuller Seminary, is pastor of the Oakhill Presbyterian Church, Grand Rapids, MI. He writes "believe it or not, my engineering degree and business experience was good preparation for the ministry. I look back on my GE degree and U.I. experiences as a great time in my life."

John Albert Metz has been transferred by John Deere to the Industrial Equipment Division at Dubuque, IA. as a design engineer. For the past three years he was supervisor of the John Deere Laredo (Tx.) Test Site. He says "the proving grounds shop was located in the middle of a 100,000 acre ranch, seven miles from the nearest paved road."

William C. Payden, Moline, IL., is announcing the birth of a son, Brian.

Samuel A. Yee, MBA '83, DePaul, has accepted a position as senior investment analyst for the E.I. DuPont Pension Fund, Wilmington, DE.

Thomas S. Zych has been promoted to Manager, Business Development, Commercial System Group, Trane Co., LaCrosse, WI. He is responsible for developing and executing group level marketing direction for the commercial systems group which includes eight separate business units.

1978 **George W. "Bill" Flathers**, M.S. Ind. Engr. '80 Ohio State, is a Boeing 747 Flight and Simulator Instructor, Trans World Airlines, Inc., JFK International Airport, Jamaica, N.T. He resides in Leesburg, VA.

1979 **Todd C. Green** is a senior project engineer, Cobe Laboratories, Inc., Arvada, CO. The Greens who live at 1256A Milo Circle, Lafayette, CO. are announcing the birth of their first child, a daughter.

Daniel K. Mankevsky, Naperville, IL. announces the birth of his first child, a son. He is a sales engineer with Walker Process Corp., Aurora, IL.

Eric M. Smiertka is an engineering specialist with Lockheed Space Division, Sunnyvale, CA. He is working on the Milstar Satellite program. Smiertka lives in Santa Clara, CA.

1980 **Eugene V. Dunn, Jr.**, MBA '84, Northwestern, has taken a year's leave of absence as Product Manager, Data Communications Products, AT&T, Montgomery, IL. He is pursuing a M.A. degree in Japanese history and language at Univ. of Chicago. He says "I feel it necessary for American engineers and managers to become familiar with far eastern cultures. There is a vast amount of technological material related to manufacturing that requires translation and understanding." Dunn hopes to work in Japan in some business, engineering or government related capacity upon completion of his graduate work.

Rose Oreher Lowry is on leave from Northwestern Bell. She became reacquainted with a college friend, David Lowry, BS Chem. Eng. '80, while in China. They were married in September and will spend the next year in South Africa, where he will start up a refinery for Mobile oil.

Silvana A. Medina, MBA '84, Harvard, has accepted appointment as Regional Accounts Manager for Latin American and European Accounts for Hewlett-Packard. She works out of Cupertino, CA.

Jeffrey D. Nelson has been named Product Manager, Actuation Systems, Sundstrand Aviation, Rockford, IL.

Henry A. Neicamp is a sales engineer for Pennzoil Products Co., Marion, IL. He is responsible for sales of industrial lubricants in Southern Illinois and Southwestern Indiana.

Kurt C. Simon is Engineering Operations Manager, AT&T Network Systems, Rolling Meadows, IL. His division sells engineering services for power systems to Telecommunication Companies.

1981 Navy Lt. John W. Peterson is Combat Services Officer, USS Gary (FFG-51), APO, San Francisco, CA. He recently completed the department head course (as a distinguished graduate) at Surface Warfare Officer's School in Newport, R.I. Lt. Peterson resides at 5421 Santa Gertrudes, Garden Grove, CA.

1982 Bruce A. Heimerich has been named Manager of Manufacturing, Incosym Inc., Westlake Village, CA.

Mark Jankowski has accepted a position as senior electrical engineer at Lenox China, Pomona, N.J.

Edward P. Juraco of Lakewood, CO., is a structural test engineer with Martin Marietta of Denver, CO.

1983 Kevin L. Ayers is a GS-12 Mechanical Engineer for the Federal Bureau of Investigation, Lorton, VA. His chief responsibility is as a mechanical CAD/CAE specialist in the design of mechanical system.

Marianne Dickerson is employed as a systems engineer at Decision Applications in Arlington, VA. She is working on a very large scale air combat simulation. A marathon runner of note, she has qualified for the 1988 Women's Olympic Marathon Trials in May '88. She writes, "My G.E. education is certainly proving invaluable in my current working endeavors."

James Richard Gnaster has been employed as an account executive by Marsh and McLennan, Inc., Chicago. He deals with insurance risks of professional agricultural, medical and engineering associations nationwide. Gnaster lives in Park Ridge, IL.

Dewey T. Holland, MSME '85, MBA '87, Univ. of Mich., recently accepted a position as a Product Planner with Ford Truck Division, Dearborn, MI. Previously he worked for Chrysler Corp. He lives in Belleville, MI.

Edward L. Leslie III, Forest Park, IL., has been employed as a quality assurance engineer for R. J.

Frisby Mfg. Co., Elk Grove, IL. He has passed the written examination as a Certified Quality Engineer for the American Society for Quality Control.

James A. Muenzenberger, MS '85, has accepted a position as product engineer for Eaton Corp. Suspension, Southfield, MI. He has total responsibilities for all the leaf springs sold to Ford Motor Co. at an estimated cost of \$65 million.

1984 Ronald J. Borre is an engineer with the Allison Engine Division of General Motors Corp., Indianapolis, IN.

David L. Lukens is employed as a service engineer with Combustion Engineering, Inc. He presently is working with different utilities including Southern California Edison and Kerr-McGee Chemical Corp. He resides in Englewood, CO.

Catherine O'Brien, Mt. Prospect, IL., has been named Systems Engineer at Sargent & Lundy, Chicago. Her responsibilities include coordinating and performing design/calculations for various power plants.

Michael C. O'Connor of Holliston, MA., has accepted a position as Account Manager, Laser Printing Systems Division, Xerox Corp, Boston, MA.

1985 Kaan Rasim Aytogu, MA (GE) '85, is a consultant with the Prime Ministry, State Planning Organization, Ankara, Turkey.

Bradley G. Lane will receive a Juris Doctorate from Univ. of Mich. in May '88. He will join the firm of William, Brinks, Olds, Hofer, Gilson and Lione, Chicago. The firm specializes in patent, trademark and copyright law.

Donna R. Lee has moved to Flint, MI. She is completing work on a M.S. degree in Administration at Central Michigan (Flint branch).

1986 Thomas Walter Fifer of Greenbelt, MD. is Director, Plans and Programs Construction, USAF Andrews AFB, Malcolm Grow USAF Medical Center, Andrews AFB.

Scott Wilson Holmes is a Stock Options Analyst, with G-Bar Partnership, Chicago, IL.

Lisa M. Kempf is employed as an engineer by Quaker Oats Co., Lawrence, KS.

Robert A. Link of Afton, VA., has accepted a position as Plant Manager of Virginia Feed and Fuel, Inc., Madison, VA. He also is president of a new company called Duracoat, Inc. which specializes in custom powder coating, a dry industrial painting process.

Abinash Singh has been named as associate engineer with Martin Marietta Orlando Aerospace, Orlando, FL. He is working as a design engineer on electro-optic systems for the US Army's forward area air defense system.

1987 Dan Grill, who resides in Prospect Park, PA., has become a safety engineer with Brand Mid-Atlantic, Aston, PA. The Chicago-based company deals in asbestos abatement and insulation.