



GENERAL ENGINEERING NEWSLETTER

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

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GENERAL ENGINEERS ATTAIN DISTINCTION

FELDERMAN BECOMES COMPANY VICE-PRESIDENT

Appointment of STANLEY R. FELDERMAN as vice-president/domestic marketing of MARK IV Systems Company, an operating unit of Informatics Inc., Canoga Park, California, has been announced by John A. Postley, president of MARK IV Systems Company. Felderman is a General Engineering graduate of the University of Illinois (1957) and holds an MBA in marketing from Northwestern University. He has been active in the data-processing field for 12 years, starting as an IBM marketing representative.

Joining Informatics in 1967 as the first MARK IV marketing representative, he later became eastern regional sales manager, national sales manager and, for the past 2½ years, director/national sales. Under Felderman's direction are all marketing activities in United States, Canada, and South America for the company's software products. Founded in 1962, Informatics Inc. specializes in design, programming, and support services for computer-based systems and development of software products.

STANLEY H. PIERCE AWARD WINNER

William L. Everitt, Dean Emeritus of the College of Engineering, established the Stanley H. Pierce Award in 1969 on the basis that "these awards would be given annually, one to the student and the other to the faculty member selected as having done the most to develop empathetic student-faculty cooperation."



JOSEPH J. SARMIENTO, '73, was the student recipient this spring. Joe earned dual degrees in G.E. and L.A.S. biology. He served as president of Engineering Council, was a Knight of St. Pat, and a member of both Tau Beta Pi and Gamma Epsilon. This fall he begins the M.D.-Ph.D. program in bioengineering at Northwestern Medical School.



Stanley P. Felderman



Bernt O. Larson

LARSON HONORED BY CIVIL ENGINEERS

Professor BERNT O. LARSON was honored by the Civil Engineering Alumni Association of the University as a recipient of the Distinguished Alumnus Award. The presentation was made at the Annual Alumni luncheon held at the Ramada Inn Convention Center on October 6, 1973.

Professor Larson was recognized for "contribution to engineering education through his professional society activities, development of high quality students and especially his implementation of outstanding team project courses."

Bernt is in his fifth year as chairman of the Urbana Plan Commission, and one of the key committeemen for both the Peoria and Springfield Continuing Education Symposia. In our G.E. curriculum he was largely responsible for developing the senior design project course. He has been faculty advisor for two projects receiving national recognition in the James F. Lincoln Arc Welding Foundation Contest. The project "High Speed Mass Transportation System From O'Hare Field to Midway Airport in Chicago" won second place in 1970, and the project "Bridge Replacement for a Deteriorated Sewer-Line Crossing" won fourth place in 1973.

Bernt earned all three of his degrees in Civil Engineering at the University of Illinois, bachelor's, master's and professional. In the University Senate, he is Chairman of the Committee on Committees.

DOBROVOLNY REAPPOINTED TO STATE COUNCIL

Professor JERRY S. DOBROVOLNY has been reappointed by Governor Walker to the State Advisory Council on Vocational Education. Jerry has served as a member of the State of Illinois Council on Vocational Education since 1968 and for three years has been member of the National Advisory Council on Vocational Education. He was elected Chairman by Council members for fiscal '74.

In June, Professor Dobrovoly was also installed as President-elect of the Illinois Society of Professional Engineers, after having served for two years as an ISPE Vice-President. He has a long history of ISPE leadership at both the local and State levels, and is past President of Champaign County Chapter.

For the past several months, Jerry has been working with the Commission on Accreditation of Service Experiences for the American Council on Education. His background in working with Air Force Technical Schools as well as various regional accrediting associations has enabled him to make significant contributions in setting guidelines to be used by civilian agencies in evaluating military course work. Significant improvement over existing rules will be evaluation at three levels: one for traditional baccalaureate transfer collegiate work, another for post-secondary occupational time in technical education leading to associate degrees, and, finally, identification of vocational courses satisfying various apprenticeship requirements and vocational equivalencies.

Jerry was the recipient of the University Alumni Loyalty Award presented during the Department Awards Banquet in May.

GRACE WILSON RETIRES

Prof. GRACE WILSON retired from the General Engineering Department at the end of this summer. She has been teaching in the department since 1946, primarily architectural projection courses. Before joining the faculty, she taught mechanical and architectural drawing at Champaign High School.

Grace received her B.S. and M.S. degree in architecture from the University of Illinois and was certified as licensed architect in 1942. She has been active in the National Society of Women Engineers as well as being advisor for the local student chapter. She has for many years worked closely with the Dean's office in counseling co-eds enrolled in the College of Engineering.

Recently, the Ladies Auxiliary of the Champaign County Chapter of the Illinois Society of Professional Engineers honored Grace, establishing "The Grace Wilson Award" in recognition of her continued leadership of the University of Illinois chapter of Society of Women Engineers.

Grace plans to remain in the Champaign-Urbana area as well as to be active professionally.



Eugene I. Odell



Donald P. Schneider

NEW FACULTY MEMBERS

EUGENE I. ODELL, Assistant Professor, received his B.S. degree from the University of Michigan in Mechanical Engineering (1955) and his M.S. and Ph.D. degrees in Engineering Mechanics from Ohio State University (1969 and 1973).

Before completing his Ph.D., Gene worked with the Drake Corporation, Grand Haven, Michigan from 1955 to 1963, where he directed research and development work in hydraulic presses and in nail-processing and packaging machines. From this work four significant patents evolved. During his stay at Ohio State, Gene also did consulting work for the Metal-Flo Corporation, involving deep drawing presses, computer study of machine dynamics, and analysis of tool design for increased strength.

Since 1967, Gene has been a Teaching Associate in the Department of Engineering Graphics at Ohio State. During summer months he was a math instructor for the National Science Foundation High School Summer Program at Columbus.

Gene is married and has three children (ages 3, 9, and 12), who thrive at 2305 Barberry Drive, Champaign.

DONALD P. SCHNEIDER, Assistant Professor, received his B.S. in Aerospace Engineering from the University of Cincinnati in 1968, his M.S. in Systems Engineering from the University of Florida in 1970, and his Ph.D. in Systems Engineering from the University of Florida last June.

From 1965-1967 Don was a Co-op student working in mission planning and analysis for several Apollo flights at the Manned Spacecraft Center in Houston, Texas. From 1968-1970 he worked as a flight dynamics engineer for Martin-Marietta Corp. in Orlando, Florida. While a graduate student at the University of Florida, 1970-1972, he taught courses in numerical analysis, transform analysis, and operations research. In 1972 Don also worked for the National Institutes of Health, Bethesda, Maryland, planning national medical manpower procurement and training. Last semester he taught Engineering Economics (G.E. 288) here.

Don's research interests are in the development of new methods of health care in the U.S., particularly in terms of improving health-maintenance organizations and utilization of new types of medical manpower, such as physician assistants.

Don is originally from Streator, Illinois and lives with his wife Ester and son David — 2½ years old — in Urbana.

METZ COMBINES VACATION WITH BUSINESS

Dr. and Mrs. L. DANIEL METZ report an interesting trip to Western Europe in May and June, culminating with presentation of a technical paper by Dr. Metz at Delft University, The Hague, The Netherlands. Entitled "Human Sagittal-Plane Torso-Bending Response: Lumped and Distributed-Parameter Models," the presentation was given at the Third International Federation on Automatic Control (IFAC) Symposium on Identification and System Parameter Estimation. In addition to his talk at the Symposium, they also visited several universities and the Grand Prix of Monaco, gathering information for his research work in simulation, systems theory, and vehicle dynamics.

During their 3½-week trip, the Metzses visited Austria, West Germany, France, Switzerland, The Netherlands, and Monaco. Mrs. Metz reports that French cuisine is indeed superb, but French self-service laundries could use some of her husband's engineering!

Dan also recently completed a 25% time appointment as a research fellow for the College of Engineering. The project involved work on a \$300,000 grant from the Alfred P. Sloan Foundation, designed to "infuse social science and humanities values into engineering education." Some 25–30 other distinguished faculty in the College, plus representatives of other disciplines across the entire University, participated in the year-long program.

Currently, Dan is preparing a research proposal which will investigate behavior of drivers during emergency maneuvers, using techniques of mathematical modeling and simulation. He reports that such research is unfortunately not applicable to his own personal (junk) automobiles, which are incapable of emergency maneuvers.

CONRY PRESENTS PAPERS AT CINCINNATI CONFERENCE

Dr. THOMAS F. CONRY gave two talks at the ASME Design Engineering Technical Conference held in Cincinnati in mid-September. Titles were "On the Stability of Porous Journal Bearings" and "Design of Multi-Recess Hydrostatic Journal Bearings for Minimum Total Power Loss." Prof. C. Cusano of the Mechanical Engineering Department was co-author for both projects.

Throughout this past summer, Tom carried out course development work with funds derived from an Undergraduate Instructional Award. This program at UIUC encourages innovative approaches to undergraduate instruction.

SPRINGFIELD ENGINEERING SYMPOSIA SERIES

Professional Engineers in the Springfield area will be able to satisfy some of their needs in continuing education through the Engineering Symposia Series which began in September and will continue on a monthly basis through March, 1974. The first program was attended by 150 engineers. This series is a cooperative effort sponsored by colleges, industry, consulting engineers in Springfield, and the College of Engineering here. Professor BERT O. LARSON is the college representative.

The seminar Series held in Peoria during 1972–1973 was such a great success that four more sessions are planned for early 1974. In addition, two short courses were started this fall in response to requests.

SUMMER PROGRAMS FOR HIGH SCHOOL STUDENTS

This summer, as it has for a number of years, the Department coordinated three different programs for high-ability high school students.

NSF

Professor Dobrovolny was director of the fourteenth National Science Foundation Summer Science Training Program. This year's students represented eight states and Puerto Rico, in addition to Illinois. Participants were on campus for six weeks and were involved in laboratories, lectures, demonstrations, and other academic activities. They were in class and laboratory an average of 9 hours a day and still managed a full schedule of extracurricular activities.

JETS

The Junior Engineering Technical Society conducted their twelfth two-week summer program for 38 students. The JETS follow a schedule similar to that of the NSF group.

INNER-CITY PROGRAM

The Fifth Inner-City Engineering Orientation program was held this summer for 37 students from the Chicago and East St. Louis Areas. This was the largest number of participants we have had in this program to date. These students participate in a program which attempts to acquaint them with and attract them to careers in engineering and science. Results from previous programs indicate that this effort has been highly successful.

Working in all of the programs from the Department were Professors GORDON E. MARTIN, DAVID C. O'BRYAN, L. DANIEL METZ, and DON P. SCHNEIDER.

IN MEMORIAM

Those who remember Professor Howard C. Nelson will be sorry to hear of the death of Mrs. Nelson. Since his retirement, they had continued to live at 709 W. Vermont Ave., Urbana.

STUDENT ACHIEVEMENTS



Air Force undergrads in G.E. are (l. to r.) Jim Gaines, Kathy Schmoldt, Ed Mayfield and John Kuhn.

AIR FORCE STUDENTS IN GENERAL ENGINEERING

The United States Air Force recognizes the importance and necessity of education to the success and welfare of military services in completing mission requirements. It therefore offers opportunities for service men and women to advance their education through AFIT (Air Force Institute of Technology), Air University Command. AFIT offers degree-winning and continuing-education programs at over 300 civilian colleges, universities, medical centers, and industrial facilities in the United States.

Five Air Force members (four undergraduates and one graduate, both enlisted personnel and officers) are currently enrolled in the University of Illinois G.E. curriculum under AFIT sponsorship.

DARRELL D. GIFFIN is pursuing a master's degree program. After being graduated from the U.S. Air Force Academy in 1965, he served two tours as instructor pilot, one in Air Training Command T-37's, and the other in Taiwan with C-130-E's in Combat Airlift. His hobbies are sail-plane flying, handgun competition, and motorcycles. Darrell is married, holds the rank of Captain, and hails from Bucyrus, Ohio.

KATHLEEN C. SCHMOLDT, from Huntington Beach, California, worked in aerospace industry before joining the Air Force in 1971. Before coming to campus last spring semester, she had served as an air traffic controller at Elmendorf AFB, Anchorage, Alaska. Kathy is treasurer for ISGE, enjoys bowling, golf, hiking, and camping.

JAMES W. GAINES, of Hollywood, Florida, was born and raised in Gainesville, Florida, eventually moving to the Miami area. He joined the Air Force in 1961, and was trained at Chanute AFB. He has been stationed in the South and West, overseas in Viet Nam and Thailand, as well as in England. In addition to photography, Jim is active in sports.

JOHN E. KUHN, of Daytona Beach, Florida, joined the Air Force in 1970 and spent almost a year at electronic technical school, Lowry AFB, Denver. His next tour was at Tyndall AFB, where he worked in the precision measuring equipment laboratory. A true Floridian, John likes water sports, especially scuba diving and fishing. His wife is also an Air Force member.

EDWARD D. MAYFIELD, '74, from Gainesville, Florida, was stationed in Tacoma, Washington, as a Fuels Specialist for a year and a half before entering UIUC. His rank is staff sergeant. His main hobby is furniture refinishing and related crafts. Ed and Karen have two children, Charlie, age 3, and Jenny, age 9 months.

Upon completion of their bachelor's degree in G.E., the A.F. students will attend the three-months School of Military Science - Officer (SMS-O), formerly known as Officers' Training School, at Lackland AFB, San Antonio. Following graduation from this training each will be commissioned a second lieutenant in the U.S. Air Force.

ILLINOIS SOCIETY OF GENERAL ENGINEERS

Officers for this year are:

JAMES REDLICH, president, is a senior from Winnetka, planning to graduate in May of 1974. He is presently a U-C Senate Representative and the finance vice-president of Engineering Council. His secondary field is pre-law.

HAL HARZ, vice-president, is a senior from Park Ridge, who plans to receive his degree in May. His secondary field is marketing and he plans to attend graduate school in pursuit of a master's in business administration. Hal is past chairman of the Christian Science College Organization, past vice-president and counselor of his independent house, and a member of Sachem (Junior Men's Honorary) and Gamma Epsilon.

KATHLEEN SCHMOLDT, treasurer, is also a senior planning to graduate in December of 1974.

GREGORY IVES, secretary, is a sophomore from Champaign. He expects graduation in May of 1976 and his secondary field is undecided. He is a member of Mid-Illinois-Grotto (a student spelunking organization) and the University High Strategy and Simulations Club. He is interested in game design and is an avid professional basketball fan.

The Illinois Society of General Engineers (I.S.G.E.) held its first meeting for the 73-74 school year on September 19th. Dr. L. DANIEL METZ took the Society from Monaco to Indy in his presentation on the world auto racing scene. His excellent slides, coupled with his vast personal knowledge and experience in racing made the meeting an exciting one.

For the future, the I.S.G.E. Executive Board has planned programs to interest all General Engineers. The October meeting features a member of the U.G.S.A. Steering Committee who will discuss its program and services. In November the society holds the annual Faculty-Student Bowling Tournament. A panel discussion between environmentalists and Engineers is in planning stages for the December get-together. New officers will be elected at the beginning of second semester in February.

To help to keep students aware of I.S.G.E. activities, an area has been set aside on the Department bulletin board for Society notices. Meetings will be held as close to the first Wednesday of each month as possible. New members and alumni are always welcome.

OUTSTANDING ACHIEVEMENT AWARDS

The G.E. Department Awards Banquet, held at the Levis Faculty Center, served to introduce and recognize those who had received honors throughout the year. Four students and one faculty member were presented awards during the evening.

SENIOR DESIGN AWARD

MICHAEL D. CLARY, '72, Homewood, and JERRY A. WAGNER, '72, of Garden Prairie, jointly received the senior design award for their "Truck Tire Changer." It represented "outstanding excellence in development of a creative solution for a complex original engineering problem." Each man received a certificate and check for \$25.00. Mike is now serving in the armed forces and Jerry is working in his father's truck tire shop in Garden Prairie.

JUNIOR YEAR AWARD

The Randolph P. Hoelscher Award was presented to KATHRYN A. DAVIS, '74, of Avon, as the junior in the department who had "achieved exceptional scholarship and leadership." Kathy received a certificate and \$75.00. She is president of Gamma Epsilon, and member of Phi Kappa Phi, national scholastic honorary. In addition to having been a church organist and playing in summer band, Kathy ushers at Krannert Center. She is student representative on Engineering Honors Council and Alumni Association.

HIGHEST SCHOLARSHIP RECORD BY SENIOR

ROBERT J. NOVARIA, '73, of Green Bay, Wisconsin, was selected as the "outstanding scholar in General Engineering" for the Edward S. Fraser Award, including a plaque and \$100. Bob was also recipient of the Randolph P. Hoelscher Award for spring, 1972. He was a member of a three-man team developing maintenance-management logistics for the Belvidere Assembly Plant of Chrysler Corporation. This fall he has begun his MBA program at Champaign.

SENIOR CHOSEN OUTSTANDING BY CLASSMATES

KARL J. SCHAULIN, '73, won the H. L. Marcus-L. P. Phillips Award. Selection is based in a large measure on character and general attitude as evaluated by fellow members of the G.E. senior class. Scholarship and excellence in extra-curricular activities are also considered. Karl was president of ISGE and a Knight of St. Pat. A member of Triangle Fraternity, he was very active in Engineering Council, participated in intramural sports, and sang in the University Chorus. He now works for Proctor and Gamble Co., Food Division, Jackson, Tennessee.

Three of our G.E. Alumni officers were in attendance and assisted: Vice President ARNOLD B. BANDSTRA, '68, Secretary RICHARD J. COLVER, '67, and Treasurer SAMUEL L. LEEPER, '63.



Truck Tire Changer. Award-winning duo Mike Cleary (left) and Jerry Wagner demonstrate their prototype. This equipment is adjustable for tire sizes from 16" to 22" rims, yet it is priced less than half the cost of currently available equipment.

NANCY STUDIED A YEAR IN MUNICH

NANCY JAKSE, senior in General Engineering, is back at the University of Illinois after a year at the Technical University of Munich, West Germany. She was participating in the College of Engineering's exchange program, under which two students from both universities receive scholarships and tuition waivers to spend their junior year abroad.

At Munich, Nancy was enrolled in the mechanical engineering curriculum and attended regular courses in that area. In preparing to attend the Technical University and participate in engineering classes with German students, Ms. Jakse attended a two-month intensive language course in southern Germany.

The first semester at the Technical University began in mid-October and ran until mid-February. After a two-and-a-half month semester break, the second semester began in May and continued through July. Due to the ample vacation time and central location of Munich in Europe, Nancy was able to travel extensively and visit a total of six different countries.

In Munich, housing for the exchange scholars is provided through the university in various student housing units. This year she and the other exchange student, Mark Schaefer, E.E., were placed in the student quarter of the Olympic Village, which had been renovated into apartments.

The scholarship is open to University of Illinois students who feel they will be able to benefit from junior-level courses in various specified engineering curricula and have completed an equivalent of German 104. Further information on requirements and possibilities is available from the Dean's Office in Engineering Hall.

ENGINEERING MANPOWER NEEDS OF THE MINING INDUSTRY

The Department of General Engineering held a Conference on Engineering Manpower Needs of the Illinois Mining Industry on September 11, 1973 at Urbana, Illinois. Over twenty representatives from various mining companies and related agencies participated in the conference. Topics discussed included manpower needs, the mining option in General Engineering, cooperative education opportunities, and recruitment of students into the mining engineering program.

As a result of this conference, it was agreed that the University staff and industry representatives should continue to cooperate in two special projects. The first project is to develop a program that can be presented to high school and junior college audiences to show the opportunities and need for mining engineers in Illinois. The other project is the formation of a committee to review and discuss the mining option in the General Engineering curriculum and to recommend whatever changes needed to provide qualified engineers for the Illinois mining industry. Professors G. R. EADIE and E. D. EBERT, co-chairmen of this committee, have already conferred with the Illinois Mining Institute in Springfield, Illinois.

RUHL TAKES LEAVE OF ABSENCE

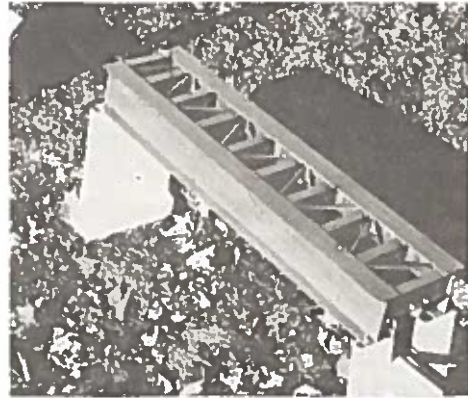
Prof. ROLAND RUHL has been granted a year's leave of absence from the department. Because of his father's ill health, it has become necessary for Rolly to take over management of his father's women's wear store. His address is 1334 Monticello Lane, Freeport, Illinois, 61032.

DEPARTMENT SCHOLARSHIP RECIPIENT

EDGAR R. MAURER, '76, Murphysboro, is recipient of the G.E. \$500 Scholarship for 1973-74. He ranked second in his high school senior class of 203, and earned a grade point of 4.188 his freshman year at the University. Edgar is enthusiastic about his G.E. courses which he feels "bring together learning, interest, and purpose." He plays chess and does woodcrafting, though he is most interested in electronics and mechanics. In high school he was president of his school's National Honor Society. On campus he participates in IM sports.

GAMMA EPSILON SERVICE-ORIENTED

New Gamma Epsilon officers are KATHRYN A. DAVIS, '74, of Avon, president, and ROBERT C. EDSTROM, '74, Springfield, secretary-treasurer. Initiates are being considered and the possibility of a first-semester initiation banquet is being investigated. Other plans include continuing help with a mechanical drawing and landscape architecture class at Urbana Jr. High and arranging tours through the engineering campus for these students. Also, a field trip to Anheuser-Busch in St. Louis is being arranged.



A balsawood model, shown above, about 3 feet long and 5 inches deep, served as a part of the final report from Pete Siems' design project.

G.E. PLACES AGAIN IN LINCOLN ARC WELDING CONTEST

For the fifth time in the last six years, a General Engineering student has received national recognition for his project design. W. PETER SIEMS, '73, won fourth place in the undergraduate structural division of the Lincoln Arc Welding Contest for 1973 with his "Bridge Replacement for a Deteriorated Sewer-Line Crossing." Pete receives a check for \$250.00 and the department \$300.00 and an appropriate wall plaque. Professor BERNT O. LARSON was project faculty adviser. After graduation in February, 1973, Pete joined Daily & Associates in Champaign. Pete, Congratulations!

Pete's design project included provision for the all-welded bridge to be shop fabricated. On the site, the unit was to be lowered onto newly constructed concrete piers. Then the pipeline would be secured by U-bolt hangers, after which the old bridge and masonry would be demolished.

ALUMNI — Please send us your job descriptions, accounts, and suggestions for the young

YOU THINK YOU WERE UNCERTAIN WHAT DIRECTION TO TAKE IN OR WITH ENGINEERING? ??

—YOU SHOULD SEE TODAY'S FRESHMEN—

Please include slides, photos, visuals — especially those suitable for Engineering 100 Orientation lectures — which will illustrate the versatility of General Engineering as a discipline. Your materials will be a great help to us, as well as interesting to your classmates.

Bob Jewett, Editor



Earl "Sandy" Moldovan

MOLDOVAN BEGINS PARTNERSHIP

EARL "SANDY" MOLDOVAN ('70) opened a consulting engineering office in Washington, Illinois, during mid-October. The firm, known as Keefauver, Hillengonds, Moldovan Engineers, Inc., will engage in municipal and civil engineering work.

On the Champaign-Urbana campus, Sandy served as president of the Illinois Society of Professional Engineers student chapter. Through his leadership and energy, engineering students from four schools participated in joint conferences at the state level. He was part of the senior design team to improve the Boneyard, involving a great deal of planning with municipal authorities. Sandy presented the final report before a number of civic groups, using excellent slides that he had taken himself.

Sandy was raised in Salem, Illinois, and began surveying for his dad's consulting firm while still in high school. During his college days, he worked part time for Daily & Associates, Champaign, and for the past year has been the head of that firm's Peoria branch.

ALUMNI NEWS

'24 CYRIL C. YOUNG has retired from industry. He will continue to live in Kansas City, Missouri.

'26 CHARLES E. CLIFTON, Jr., has retired from the United States Savings and Loan League of Chicago. He will continue to live in Wilmette.

'29 WILLIAM JESS GILDHAUS retired a half-dozen years ago, but still lives in Downers Grove.

'39 GEORGE S. TREES worked for Chicago Bridge and Iron Company, Oak Park, during his entire industrial career. By the time of his retirement, he had moved up to Vice President and Director. For a decade George had responsibility for the Special Products Department, developing challenging new products such as super-cold cryogenic vessels, basic oxygen steelmaking furnaces, and saline water conversion plants. His department designed and built the first space simulation chamber to be used by U.S. astronauts as they prepared for America's first manned expedition into outer space.

'50 RALPH H. VUYLSTEKE has been the Principal Sanitary Engineer for more than a decade for Jenkins, Merchant & Nankivil, consulting engineers in Springfield, Illinois.

'54 ROBERT T. MEYER last year became Senior Industrial Engineer for the Bessemer and Lake Erie Railroad, with headquarters in Greenville, Pennsylvania. His major duties are to prepare written descriptions of the intended purpose of proposed expenditures, and their anticipated effect on the company's system of standards. He then must revise those affected standards whenever the project is approved and installed. In his work with maintenance of way, he deals with track, structures, signals and communications, and engineering. Bob finds all this involvement enjoyable, rewarding, and challenging.

'55 RAYMOND D. DOWSETT has been appointed Manager of Panel Operations with the Honeywell Company in Arlington Heights.

'58 JON PEACY received his M.S. in Civil Engineering from the University of Washington, Seattle, two years ago and is now a mechanical engineer with Pioneer Service and Engineering in Chicago.

'58 ROBERT H. LITTLE completed his MBA from Harvard Business School in 1960 and is now Treasurer for Owens-Illinois, Inc., in Toledo, Ohio.

'59 RICHARD K. KEYSER received his MBA from U.C.L.A. in 1965 and is now President of National Child Care Centers, Inc., Houston, Texas.

'59 WILBUR L. KNUTSON has recently become Engineering Project Manager for Riviana Foods, Houston, Texas.

'59 CLARK COGSWELL is currently Construction Control Supervisor for the City of Hollywood, Florida.

'61 DAVID L. THOMAS completed his law degree from the University of Illinois School of Law in 1971, and is now the Assistant Corporation Counsel, City of Peoria, Illinois. Dave married Sue Speiser (U. of I. '63) in June, 1972.

'61 DENNIS J. DULIN has established his own project-management consulting firm, Dulin Associates, Inc., in DeKalb. Dennis has had several years experience in the design, construction, and management of building projects. In addition, he has had two years of intensive study in management. His consulting work involves him intensively in critical phases of the project cycle. Back-up skills of computer scheduling and estimating, legal work, and accounting, are employed as needed.

'62 RALPH T. HOCKING received his DBA from Kent State in August, 1972, and is now Associate Professor of Business Administration and Economics at Shippensburg State College, Shippensburg, Pennsylvania.

'63 EDWARD C. WAHL joined the planning staff of Sangamon State University two years ago, serving as Educational Facility Planner. Ed has been responsible for architectural program statements recommending four new buildings for the permanent campus. In December, 1972, Ed married the former Mrs. Maebeth Irwin of New Berlin, Illinois.

'63 BENNIE D. BABB has recently moved from the Midwest to assume the position of Production Operations Consultant with Linde Division of Union Carbide in Tonawanda, New York.

'64 GEORGE R. "DICK" ARMSTRONG has been serving as Supply Officer with the rank of Lieutenant Commander aboard the U.S.S. Dale, operating in the Mediterranean during the summer. At the beginning of next year, he will be stationed in Florida waters.

'64 JOSEPH M. CABLK has been promoted to Marketing Engineer Specialist with the Natural Gas Pipeline Company of America in the Chicago area.

'65 C. WESLEY ROWLEY has just moved to Kewaunee, Wisconsin, as Project Engineer at the site of the Kewaunee Nuclear Power Plant. Wes is employed by the Nuclear Services Corporation, an engineering consulting firm providing design, construction, start-up, and operations assistance to the nuclear power industry. The NSC is about four years old, with some 150 employees.

ALUMNI NEWS

'65 JOHN A. REDIN returned from the West Coast to earn his Master of Divinity this year at Grace Theological Seminary, Winona Lake, Indiana. He plans to assume a pastorate in a Baptist Church.

'66 MYRON G. ODELL completed his MBA in 1968 at the Urbana campus, and now serves as Management Consultant for Arthur Andersen & Company, Chicago. Myron was married last December.

'67 RICHARD J. COLVER and Laverne announce the birth of their daughter, Deborah Rae, on 13 September 73. Dick is Chief of Facilities Data Systems Branch for the Corps of Engineers Construction Engineering Research Laboratory in Champaign.

'67 GARY L. MARCUCCI completed his MBA in 1969 at the Urbana campus. He has recently become head of the Communications and Community Relations within General Electric Company, and is located in the Large Gas Turbine Department in Greenville, South Carolina. Gary and his wife Florence are proud parents of a baby boy.

'67 LOUIS A. FRIEDRICH earned his MBA in Finance in 1969 from Columbia University, and became a certified public accountant early in 1972. Louis is currently a senior accountant for Ernst & Ernst in New York City. A date in October, 1973, has been set for his marriage to Christine Tischler.

'68 ALTEN "SKIP" GRANDT earned his Ph.D. in Theoretical and Applied Mechanics from the Urbana campus in June 1971. Skip is a Captain, USAF, serving at the Air Force Materials Laboratory, Wright-Patterson AFB, Ohio. His first child, Jennifer Susan, was born 6 May 73.

'68 JAMES S. SCHMORE completed his master's degree in Theoretical and Applied Mechanics at Urbana in 1970, and is now working for Sundstrand Aviation in Rockford.

'68 ARNOLD B. BANDSTRA, Jr., has been promoted to Associate in the consulting firm of Daily and Associates, Engineers, Inc., of Champaign. He received his Illinois State Professional Engineer's registration certificate last summer, and is now studying part time on his master's degree in Environmental Engineering. Arny and Arlene's second son, Aaron Daniel, was born in March.

'69 ARDELL W. NEASE is employed by Rockwell International, Downey, California, as a System Design Engineer.

'70 JOHN D. COCHRAN moved to California during the summer of 1972 as management consultant with S.D.S. Management Services. This company offers management consulting in the health care field, assisting hospitals to make their facilities more efficient and effective. He is now on a temporary assignment in Idaho. John and Karin (University of Illinois '69) have a 2½ year old son, Peter.

'71 RODNEY G. KITICK is a Staff Application Engineer for the Liquid Carbonic Corporation in Chicago. He is involved in design of apparatus and installations to apply the company's cryogenic and compressed gases for industry requirements.

'71 JOHN G. HRIVNAK has worked for the past two years as Regional Cost Estimator for the Sandvik Conveyor, Inc. Chicago office. This summer he was transferred to the company's headquarters in Fairlawn, New Jersey, to become Corporate Cost Estimator.

'71 CHARLES W. FELLMAN has been based in Springfield as an Environmental Protection Engineer for the State of Illinois.

'71 DANNY L. NELSON received his master's degree in Environmental Engineering from the University in February, 1973. He practices as a Sanitary Engineer for the U.S. Army Construction Engineering Research Laboratory in Champaign.

'71 BRUCE A. HUBER begins the second half of his MBA program at Harvard Graduate School. This past summer he worked in the Office of the Administrative Vice-President of Harvard. Bruce has also just received word that his Senior Design, sponsored by Industrial Nucleonics, Inc., Columbus, Ohio, has been patented.

'72 RICHARD A. DOTY is employed by the Firestone Tire and Rubber Company, Pottstown, Pennsylvania, in the development of Firestone Radial 500 and the Radial Town and Country tires.

'72 RONALD A. MANGELDORF started work with Commonwealth Edison Company in January as a member of their six-month graduate engineer training program. His first assignment was at the Zion Nuclear Power Station, working with M.E.'s in construction of Units I and II. The next phase of training consists of technical sales—selling electric heat.

When Ron was interviewing, he was frequently told that a degree in General Engineering was ideal for being an Edison Engineer. Since being with the company, he finds that their engineers are management people rather than designers. They call it "Technical Management," drawing decisions from technical experience and data.

'72 DAVID J. MITCHELL is now working as a Mechanical Engineer with the U.S. Army Foreign Science and Technology Center in Charlottesville, Virginia.

'72 JAMES B. BLANDFORD earned his M.S. in M.E. this past June at Urbana, and is now beginning work on his doctorate at the University of California, Berkeley.

'72 JAMES H. WILDEMUTH enlisted in the Army last fall and is serving his tour of duty at the Pentagon, Washington, D.C.

'72 TERRY G. DYSERT has served as Field Engineer with Babcock & Wilcox carrying out several assignments in the Midwest. This past Spring he was assigned to develop starting procedures for American Electric Power's 1300-megawatt plant in Scary, West Virginia. This is largest in existence, with an output of 9,750,000 pounds of steam per hour. In September, 1973, Terry is returning to Xavier University in Cincinnati to complete his MBA.

'73 ROBERT B. BURNS, Jr., is a design engineer with Stran Steel Corporation in Houston, Texas. His wife is employed by Prudential Insurance Company as a Claims Adjuster.

'73 PAUL NEWHAGEN is on the West coast, working in Production Control in the Metallic Oxide Semiconductor Division of Fairchild Semiconductor Company in Mountain View, California. He schedules and provides raw materials and engineering products for production valued at \$800,000 per month. Although Paul spends 10 to 12 hours a day at the plant, he has found time to be a "vacationer" both at the ocean and in the mountains.

'73 THOMAS R. ZIECH has worked for two summers with the Inland Steel Company at their East Chicago, Indiana, plant, and is now stationed in their engineering department. His work deals with pollution abatement for blast furnaces, as well as water purification and recirculation. Tom feels that both steel production and pollution engineering are exciting fields. He is pleased to be involved in both. He is also thankful for his G.E. academic training, which he finds most advantageous for his needs. This fall he will begin studying for an MBA.

'73 JAMES A. SULLIVAN is employed by the Shure Brothers Company at their Evanston, Illinois, plant. He is currently practicing as a Manufacturing Engineer.

'73 ALLAN T. BARTZ began work for the Michigan Consolidated Gas Company in Detroit this summer, and reports that he is enjoying what he considers an "ideal job for a General Engineer." His work is with the Transmission Design Section on assignments varying from compressors to pipelines, buildings, foundations, and roadways.

'73 ARTHUR F. SNYDER now works for Parker-Hannifin in Des Plaines. As a manufacturing management trainee, Art spends a month or two in each department as an assistant foreman. He is in the Cylinder Division, which manufactures a complete line of air and hydraulic cylinders.