

# GENERAL ENGINEERING NEWSLETTER

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

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## DISTINGUISHED ALUMNI AWARD BEGUN BY GAMMA EPSILON



Kenneth W. Hamming '40



Barbara C. Johnson '46



Harry E. Hawkins '52

GAMMA EPSILON, the General Engineering honor society, established the "Gamma Epsilon Distinguished Alumni Award" to recognize General Engineers for their achievements in their profession and service to their community.

KATHRYN ANN DAVIS, '73, Avon, president, spearheaded the work to bring this idea to fulfillment. She made the presentations of certificates and medalions to the three winners at the Annual Awards Banquet, held 18 April. The initial three recipients were: Kenneth W. Hamming, '40; Barbara Crawford Johnson, '46; and Harry E. Hawkins, '52.

### HAMMING HEADS CONSULTING FIRM

KENNETH W. HAMMING is Senior Partner of Sargent & Lundy Engineers, Chicago.

Mr. Hamming received his B.S. in General Engineering in 1940. He joined Sargent & Lundy's Mechanical Engineering staff in the same year where until 1944 he was engaged in theoretical analysis, studies and reports related to the design of electric generating facilities. During World War II he spent two years with Consolidated Vultee Aircraft Corporation as a Weight Control Engineer. He returned to Sargent & Lundy in 1945, again as a member of the Mechanical Engineering staff and for many years was responsible for the design of several large steam electric generating stations. In 1956 he was admitted to the firm's partnership. In 1964 he was named Manager of the firm's Mechanical and Nuclear Department and in 1965 Director of Engineering. He assumed his present position as Senior Partner in 1966.

As the Chief Executive of his firm, Mr. Hamming has carried on the tradition of an 80-year history of providing professional engineering services to the electric utility industry. Under his leadership, the firm, with its current staff of over 1,500, has maintained its position as the largest consulting engineering firm in the nation. He has fostered the growth of his firm through the active recruitment of engineering graduates and establishment of various programs to encourage professional development.

### BARBARA JOHNSON A LEADER IN SPACE PROGRAM

BARBARA CRAWFORD JOHNSON (Mrs. Robert H.) was the first woman to graduate from General Engineering, earning her degree in 1946. She began her career with the Space Division of Rockwell International (then North American Aviation) and has continued with them ever since.

Mrs. Johnson has held positions of research and leadership for guided missiles and space flight. Early work included flight dynamic studies for Navaho and Hound Dog guided missiles, as well as space vehicles. For the Apollo missions she supervised the trajectory design for earth return (reentry) and the design and evaluation of Entry Monitor System. In 1968 Mrs. Johnson was appointed System Engineering Manager for mission-related system activities in support of Command and Service Modules. This was the highest position ever held by a woman at the Space Division. She officially represented the company in technical meetings with NASA management and astronauts at the Johnson Space Center in Houston. Since mid-1973 Mrs. Johnson has been Manager of Mission Requirements for the Shuttle System.

The Johnsons are a husband and wife team with a unique professional bond: Robert Johnson is presently a Project Engineer on a research program to improve the analytical and test methods for predicting air breathing propul-

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## OPPERMAN HEADS PLACEMENT OFFICE

In his new functions as Director of Placement and Cooperative Education Programs for the College of Engineering, Dean DAVID R. OPPERMAN reports optimistically on salaries and employment prospects for current graduates and future students. He says, "The energy crisis and a potential shortage of engineers in the late '70's have combined to make the practice of engineering among the most rewarding professions..." The average Dec. '73 engineering college graduate receives \$978 per month, \$60 more than a year ago.

Starting salaries given UIUC graduating engineers are likely to be higher than at other engineering schools because of the excellent reputation of the College of Engineering here. Even engineering graduates elsewhere, however, are recording higher starting salaries.

Though the energy crisis may cause some delays or cut-backs in expansion plans, and transportation industries may curtail recruitment, companies predicting increased needs include communications, nuclear power development, and construction. This spring minority groups and women enjoyed unusually favorable opportunities to find rewarding positions appropriate to individual interests and skills.

Counseling has become increasingly important in finding full satisfactory employment. Part of the blame may be placed on ignorance of opportunities or misinformation concerning industry demands and prospects. Counseling has not been confined to secondary schools, but has been continued and expanded in college.

Little used as counseling sources in the past, placement offices have survived repeated attacks by dissidents. Now more and more prospective graduates are turning to placement offices for job information and career advice or guidance. The extensive library of Engineering Placement at UIUC offers a wide variety of decision-making material for students. It seems apparent that spring 1974 was a busy time for the office in helping fledgling engineers find the most rewarding career possible.

A native Illinoisan, hailing from Piper City, Dean Opperman saw service in WW II and Korea with the weather branch of the Navy. Later he was an instructor at the Air Force Weather School at Chanute. In 1956, he joined the G.E. Department and a year later was appointed assistant dean. He has been in charge of academic guidance and counseling, cooperative engineering program, scholarships and honors. He has had numerous college committee assignments and community service activities. He relaxes in spare moments with his stamp collecting hobby.

Dave and Mrs. Opperman reside in Urbana. Their daughter, Mrs. Stephen Hackett, a graduate of the Jane Addams School of Social Work, is with the Adler Center. One son, Scott, is employed in the community while his brother, Mark, attends Stanford University.



David R. Opperman



Jerry S. Dobrovlny

## DOBROVOLNY ASSUMES TWO MAJOR POSTS

JERRY S. DOBROVOLNY, P.E., ('43). Professor and Head, Department of General Engineering, has moved into leadership in two distinct areas this spring.

Professor Dobrovlny became president of the Illinois Society of Professional Engineers for 1974-75 during the Society's annual meeting in Decatur. Jerry has served as president of the Champaign County Chapter of ISPE, and for several years was a state vice-president. His message appears in the ILLINOIS ENGINEER each month in the president's column entitled "Jerry's Journal."

Professor Dobrovlny has been appointed a Member of the Governor's Advisory Council on Manpower for the State of Illinois. There is a need to expand job opportunities through the economic development of the State and through upgrading educational and training opportunities for citizens. To meet this need, the Council has the three-fold objectives to establish statewide manpower policies and priorities, to recommend appropriate legislation, and to approve annual plans of local Manpower Planning Boards.

Jerry has worked closely with various government agencies, such as the National Science Foundations and U.S. Office of Education, and with the American Associations for the Advancement of Science, American Society for Engineering Education, and others to improve the curricula in traditional engineering education as well as to establish education in the new areas of engineering technology. He is currently serving as Chairman of the State of Illinois Advisory Council on Vocational Education.

## FRASER AWARD FOR SCHOLARSHIP

ROBERT C. EDSTROM, '74, Springfield, was selected for the Edward S. Fraser Award based on outstanding scholarship. Bob has been a member of Gamma Epsilon for two years, and secretary-treasurer this year. He was initiated into Tau Beta Pi this spring. In sports he was active in the ski club and ran the 440 in I.M. track.



Michael H. Pleck

### PLECK HONORED FOR EXCELLENCE IN TEACHING

The Everitt Award for Teaching Excellence which honors Dean Emeritus William L. Everitt, was established in 1968 at the time of his retirement. The award, consisting of a plaque depicting Dean Everitt and a check for \$500, annually recognizes two or more engineering faculty members for their outstanding undergraduate teaching.

MICHAEL H. PLECK is an assistant professor of General Engineering and a research assistant professor in the Coordinated Science Laboratory. He has been on our staff since 1964 when he began graduate studies. He received his Ph.D. in Mechanical Engineering in 1970.

Dr. Pleck's main interest is in the area of computer graphics technology and its application to engineering communication and computer-aided design. He has authored several design-oriented computer graphics programs and established a popular undergraduate course in computer graphics which received special student recognition in 1969. As chairman of his department's Computer-Aided Design and Computer-Aided Instruction Committees, he is currently active in the development of the Illinois Graphics Computing System, a mini-computer-based system for graphics, simulation, and engineering design education. In addition, Dr. Pleck is exploring the application of metal cutting to a high-efficiency device for energy absorbing automotive bumpers as an out-growth of his doctoral dissertation. He has published papers in the areas of computer graphics, computer-aided design, and metal cutting.

Dr. Pleck is a member of ASEE, and was selected as the Young Faculty representative from the University of Illinois to the ASEE annual meeting in June 1970. In 1972 he helped staff the ASEE Computer Graphics Summer School. He is also a member of the ANSI (American National Standards Institute) Y-14.26 subcommittee which is establishing standards for the industrial use of computer graphics.

### JOHN PEARSON RETIRES

Professor JOHN PEARSON retires from the General Engineering Department at the end of this summer. With the exception of four years during World War II when he was on active duty with the Army Air Corps, John has been associated with General Engineering since 1939.

In 1935 John graduated from Purdue with a BSME degree and prior to joining the faculty at the University of Illinois had four years of engineering experience with private industry.

In 1943 John received a MS degree in the field of Meteorology from California Institute of Technology. His interest in meteorology led to work in the air pollution field, and in 1971 he was appointed Associate Director of the Institute for Environmental Studies at the University of Illinois. During his teaching career he has had teaching assignments in Civil Engineering and TAM as well as General Engineering.

In the past years John has served as a Research Associate with the Illinois State Water Survey, the Brookhaven and Argonne National Laboratories and in 1968 he had the honor of being appointed by the Governor of Illinois to the Ohio River Valley Water Sanitation Commission (ORSANCO).

John and his wife's housing plans are for the moment somewhat indefinite, however having purchased an Airstream travel trailer, they can be expected to roam the highways for a time.

### THE ENGINEER IN THE BUSINESS ENVIRONMENT

A new course entitled "The Engineer in the Business Environment" was taught during the spring term at the request of the Department of Electrical Engineering. This course deals in depth with various aspects of the business world in which the engineer functions. Topics include business organizations and financial structures, economics and feasibility in decision-making, interaction of the engineer in the business model, psychology of human relations, professional development and continuing education, and ethical and legal factors in the engineering profession.

The Department of General Engineering provides the teaching team of HARRISON STREETER, HERBERT J. SPRENGEL, and EUGENE I. ODELL. Specialists are also invited to speak on their fields of expertise, while class members play an active role in analysis and solution of representative problems.

This course is a direct outgrowth of the vision and energy of William E. Buford, a junior in electrical engineering. A planning committee consisting of Buford, Elizabeth A. Richards, and Leo J. Thompson, faculty member JOHN P. HIPSKIND and the teaching team worked throughout the fall term developing course objectives and outline.



Kathryn Ann Davis



Marianne Andrasek

### HONORS HEAPED UPON KATHY DAVIS

KATHRYN ANN DAVIS added another laurel to her achievements by receiving the Grace Wilson Award. The outstanding graduating senior woman engineering student at UIUC is so honored each year by the Ladies' Auxiliary of the Champaign County Chapter of the Illinois Society of Professional Engineers. The presentation was made to Kathy by Mrs. Paul Manahan of the Auxiliary at the National Engineers' Week dinner in February.

Kathy won two awards this spring within the Department of General Engineering, Marcus-Phillips and Senior Project Design. The H.L. Marcus-L.B. Phillips Award recognizes excellence in extracurricular activities in addition to scholarship. Selection is based also on character and general attitude as evaluated by the G.E. senior class. Kathy was a team member of one of the two co-winners of the Project Design Award. Her team was sponsored by the Chicago Bridge and Iron Company of Oak Brook.

Last spring Kathy won the Randolph P. Hoelscher Award as the Department's outstanding junior. Two years ago she was initiated into Gamma Epsilon, becoming only the second coed to be thus honored. This year she is president of the honorary and under her leadership the society has been noticeably rejuvenated. In addition, she is secretary of Tau Beta Pi.

Kathy hails from Avon, Illinois. She graduated in December, 1973, and is working towards her master's degree in Civil Engineering. Her major is structures, with additional work in soil mechanics and materials.

### HOELSCHER AWARD TO JUNIOR LEADER

ALAN R. BELAIR, '75, Hickory Hills, became the seventh recipient of the Randolph P. Hoelscher Award. This honors a junior in the department who has "achieved exceptional scholarship and leadership." Alan is a member of Gamma Epsilon and involved with the junior high project activity. Basketball and softball occupy his energies in I.M. sports.

## ILLINOIS SOCIETY OF GENERAL ENGINEERS

Officers for this year are:

MARIANNE ANDRASEK ('75) president, is from Oak Lawn. Her secondary field is business administration. Marianne is also editor of TECHNOGRAPH, member of Engineering Council and Volunteer Illini Projects, a little sister of Pi Kappa Phi, and Knight of St. Pat.

MARK D. LARSON ('75) vice-president, comes from Blue Island. He is news editor of TECHNOGRAPH and a member of Engineering Council. Mark participates in intramurals and his hobbies include cooking, camping, and motor-cycling. His secondary field is bio-engineering.

GAIL F. WESTENDORF ('76) treasurer, hails from Pesotum. His secondary field is mechanical engineering. Gail is also member of Engineering Council, and his hobbies are pinball, bowling, hunting, and fishing.

GREGORY L. IVES ('76) secretary, is a native of Champaign. His secondary field is undecided. He is a member of the Mid-Illinois-Grotto and the University High Strategy and Simulations Club. Hobbies include game design, pinball, basketball, baseball, and photography.

I.S.G.E. in November sponsored "The Annual 'Strike' O'Bryant Bowling Tournament." Named in honor of the faculty's star bowler, Professor D.C. O'BRYANT, the tourney ended in the faculty nudging out a 142 to 140 victory over the students led by sophomore BRUCE R. BARTHOLEMEW. On December 5th, I.S.G.E. met at the Thunderbird Restaurant to hear guest speaker NANCY E. JAKSE, senior in General Engineering, tell of her experiences at the Technical University of Munich, West Germany.

This semester the Society plans to sponsor peer advising during advance enrollment for Fall 1974. In this service program advanced students explain courses they have taken, and requirements, to other students and prospective registrants.

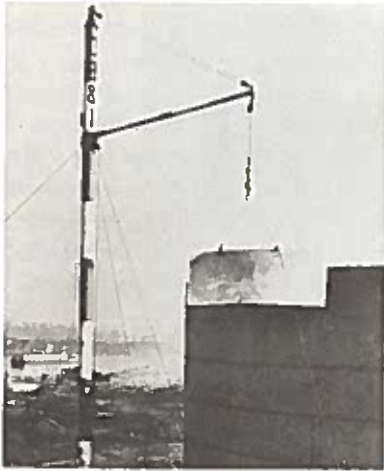
### ENGINEERING COUNCIL OFFICERS INCLUDE FOUR GE's

President, KENNETH M. GRACHAN, '75, Lockport, served last year as one of the vice-presidents, Knight of St. Pat; plays accordion professionally.

Executive vice-president, THOMAS W. TOBIN, '76, Park Forest, won first prize for his individual exhibit during Engineering Open House, 1973; newly elected to student senate.

Publicity vice-president, ROY A. KAELIN, '77, Flossmoor, specialty art and poster work; department student member for alumni committee.

Social affairs chairman, DAVID E. OLSON, '75, Oak Lawn; fall initiate into Gamma Epsilon.



**50-TON  
GUYLESS  
DERRICK**

### **CO-WINNERS FOR SENIOR PROJECT DESIGN AWARDS**

For the first time, two senior projects received awards for 1973 one from the spring semester and one from the fall semester.

#### **FIREWATER FLOW SIMULATION**

Spring semester 1973

**Project Team:** GARY M. KANTNER, Mahomet; THOMAS L. BURKE, Glen Ellyn; JAMES W. SMITH, Glenwood; ERIC TERLIZZI, Dundee

**Sponsor:** U.S. Industrial Chemicals, Tuscola, Illinois

**Advisors:** Bernt O. Larson and Gordon E. Martin, General Engineering

The firewater system at the U.S. Industrial Chemicals Co., Tuscola, grew like Topsy with little opportunity for proper planning as the company grew and expanded. There is no satisfactory way to quickly tell how much water this complex firewater system can supply at given locations in case of a large fire. This type of information is required by the fire underwriters. Operational information is also necessary for efficient, low-cost redesign of the system to supply more water at given locations as specified by the fire underwriters. Rapid simulation of the firewater system is highly desirable for on-site, operational use by the Fire Department during a fire emergency.

The firewater group has designed an efficient, low-cost electric resistance model to simulate the U.S.I. firewater system for rapid, on-site operation. This model is quickly and easily modified to show the effect of operational or design changes in the system. The success of the model depends upon the low-voltage, variable resistance characteristics of standard light bulbs as proved by test. Calibration and proof of the model is being accomplished by controlled flow tests at the plant and by computation using the Hardy Cross method on an IBM 360/75 computer.

#### **DESIGN OF A 50-TON GUYLESS DERRICK**

Fall semester 1973

**Project Team:** KATHRYN ANN DAVIS, Avon; ANDREW M. STEFANIK, Fairview Heights; MARVIN C. WILDENRADT, Sycamore

**Sponsor:** Chicago Bridge and Iron Company, Oak Brook, Illinois

**Advisors:** Bernt O. Larson and Morris Scheinman, General Engineering

This project involves the design of a 50-ton guyless derrick utilizing modified existing component parts of other derricks. The proposed structure is unique in size, configuration and load capacity. The derrick is to be 270 feet high and support a 90 foot boom. The upper 60 feet of the tower, which supports the boom, is cantilevered from the guyed point of the tower. A swivel at the foot of the boom and top of the mast permit the boom and rigging to rotate 360° about the center of the structure.

The design procedure involved the determination of structure geometry, derrick analysis and recommendations for modification of members to accommodate increased loadings. Evaluations of alternate solutions and revisions that might be considered in the design of future rigs are included.

#### **G.E. CO-EDS**

Of more than 100 coeds in the College of Engineering, 25 are enrolled in General Engineering. These are listed below with their home towns and choices of secondary fields:

**Seniors:** ADRIENNE F. HODANIK, Western Springs, business administration, will work for Union Carbide; NANCY E. JAKSE, La Salle, business administration, will work for Proctor and Gamble; KATHLEEN C. SCHMOLDT, Huntington Beach, California, management, with a career in the Air Force.

**Juniors:** MARIANNE ANDRASEK, Oak Lawn, business administration; DIANE DeMARCO, Morrison, computer science, co-op student with NASA Flight Research Center at Edwards Air Force Base, California; PATRICIA A. HUMPHREYS, Champaign, marketing; DIANE M. ZIELINSKI, Joliet, mathematics.

**Sophomores:** (At this level a choice of secondary has not yet been made, except as noted.) SHAUNA M. CLARKE, Canton, mining and geological engineering; CYNTHIA A. HODANICK, Western Springs; MARY E. LEBER, Mokena; CATHERINE C. LENTINE, Arlington Heights; BETH M. O'LEARY, Prospect Heights; LYNN RICHARDS (Mrs. L.K.), Champaign, Horticulture; DONNA L. SENF, Park Ridge.

Freshmen: MARY LOU COLLINS, Elmhurst; MARY K. CONNOVER, Oswego; LISA E. DOCHTERMANN, Chicago; AMANDA ROSE DYSART, Crystal Lake; MARY L. HILL, Chicago; JUDITH V. JENNINGS, Park Ridge; NATALIE A. MANKUS, Winnetka; SALLY A. McCONKEY, Belleville; CHERYL A. SCHWARM, Ohlman; G. NADINE TERRELL, Chicago Heights, KAY E. TULLY, Park Ridge.

(BARBARA JOHNSON, continued from page 1)

sion system performance at Rockwell International's Los Angeles Aircraft Division and Barbara Johnson is Manager of Mission Requirements and Integration at the Space Division of Rockwell International. Thus, both Johnsons are committed to space-age engineering.

Mrs. Johnson is active in community affairs and has been guest speaker at Rotary Clubs, Women Clubs, Girl Scout meetings, Parent and Teacher Association meetings, and American Association of University Women. Most recently she was a panel member of "Women in Engineering" at the University of Illinois, fall of 1973.

#### HAWKINS IS FOUNDER AND PRESIDENT

HARRY E. HAWKINS received his degree in General Engineering in 1952.

Upon graduation he accepted a job as a Sales Engineer with the Micro Switch Division of Honeywell. Mr. Hawkins was with Honeywell for five years, leaving as the Branch Manager of their Indianapolis office. He was then employed by the Industrial Timer Division of Eagle Signal, Moline, Illinois, as their Chief Design Engineer.

In 1958 Mr. Hawkins founded Rockford Controls Company, a manufacturers representative firm, and 10 years later he founded Reed Devices, Inc., a manufacturer of electrical components and solid state systems. In 1972 he formed a small computer service company Spindex, Inc., and he is currently President of all three companies.

Mr. Hawkins is married to Betty Lou Ott of Rockford, Illinois. They have five children and reside in Glen Ellyn, Illinois.

#### GAMMA EPSILON

Gamma Epsilon is becoming an increasingly active and productive honor society. Fourteen General Engineers were initiated last fall at the Fall banquet. This brings our active membership to 20 for the spring semester, up from four in 1970. Transferring business meetings from the student lounge to the Thunderbird Restaurant has seemed to promote interest, as did the field trip to Anheuser-Busch in St. Louis.

The first meeting for the spring semester included a spaghetti dinner at the apartment of president Kathy Davis, with assistance from vice-president Rob Edstrom and faculty adviser Professor Harrison Streeter and his wife, Imie. Plans for the remainder of the semester include helping at Urbana Jr. High with a mechanical drawing and landscape architecture class, touring Decatur Caterpillar plant, and hosting the Annual G.E. Department Spring Awards banquet. Faculty members will also be invited to attend informal meetings at the T-Bird on Friday afternoons.

Three students were recognized for leadership and activities by being made Knights of St. Pat for 1974: MARIANNE ANDRASEK, '75, Oak Lawn, currently president of I.S.G.E.; KENNETH M. GRACHAN, '75, Lockport, currently president of Engineering Council; JAMES W. REDLICH, '74, Winnetka, immediate past president of I.S.G.E. Professor ROBERT A. JEWETT represented St. Pat himself for the knighting ceremony.

#### THIRD DECADE OF LIFE MEMBERS

Our NEWSLETTER has carried the names of G.E. life members of the Alumni Association who graduated before 1940. For this issue information where available is given for those after 1940: present position, company title, and years of service:

- '40 KENNETH W. HAMMING, senior partner, Sargent and Lundy, Engineers, Chicago, 34 years.
- '41 DANIEL S. WILCOX, regional vice-president for Western Hemisphere, Westinghouse Electric Corporation, Rio de Janeiro, Brazil, 28 years.
- '42 ALVIN J. BLAKE, executive director Davis County Business Company, management consultant, Huntington Station, N.Y.
- '46 H. DONALD HALLBERG, manager for manufacturing, United States Gypsum Co., Chicago, 28 years.
- '47 JAMES M. PALM, secretary-treasurer, Rockford Engineered Products Co., Rockford, 23 years.
- '47 JOHN R. PALM, president, Rockford Engineered Products Co., Rockford, 23 years.
- '47 E.J.F. REGAN, president, Four Seasons Villages, Inc., Newport Beach, California, 5 years.
- '48 ARTHUR L. VINEYARD, management consultant, George S. May International, Pittsburgh, Penna.

Additional life members:

- '42 EDWARD V. LINDER, Taylorville, Ill.
- '42 CHARLES G. SCHOTT, Jr., St. Louis, Mo.
- '43 RAYMOND M. STANDAHAR, Alexandria, Va.
- '44 CARL R. DICK, Jr., Latham, Ill.
- '49 ROBERT W. NELSON, Louisville, Ky.



Charles F. Hedblom

### HEDBLOM BECOMES PRODUCTION MANAGER

CHARLES F. HEDBLOM ('64) has been promoted to Production Line Manager of Transducer Products. In this position Chuck will be fully responsible for engineering, manufacturing, and marketing aspects of Transducer Products activities. Notably these include weldable strain gages and medical transducers.

Mr. Hedblom, honors graduate of UIUC Department of General Engineering, holds membership in Sigma Tau and Tau Beta Pi. He was one of the founders of Gamma Epsilon and its first president during 1962-63. Currently he is active in the Society of Experimental Stress Analysts. He, his wife, and two children live in Pasadena, California.

### LASSON IS DIVISION MANAGER

As a result of rapid expansion in Industrial Nucleonics sales, the company has named GERALD A. LASSON ('65) Customer Services Western Division Manager. He will serve IN's customers in rubber, plastics, and metals industries. Customer Services has total systems responsibility for IN's computer-based automation systems. The service covers installation, maintenance, and assurance that IN's customers receive maximum product quality.

Gerry, who joined IN in 1966 as a Systems Engineer, has served for the past 4½ years as Systems Engineering Manager. He holds a bachelor's degree in General Engineering and a master's degree in nuclear engineering from UIUC. He is a registered Professional Engineer, and the 1974 edition of *Who's Who in Ohio* has selected him for listing in their publication. He resides with his wife, Joan, and daughter, Julie, in suburban Columbus, Ohio.

## ALUMNI NEWS

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'19 HARRY W. BUCKLEY, who now lives in North Palm Beach, Florida, was an executive of Sears, Roebuck & Co. until his retirement about twenty years ago. Before that he had seen army service in World War I.

'24 ALGER S. BARNARD retired from U.S. Steel Corporation in Gary, Indiana, in 1967, as supervisor, Engineering Department. Since then he has been working for Plumb Tuckett and Hubbard, Consulting Engineers and Architects, in their structural engineering division. One of the jobs he is presently designing is an Automotive Laboratory for Standard Oil Company, Amoco Research Center. The new laboratory will be in Naperville, five miles from the farm home where he was born.

'37 EDWARD F. DUDLEY, Jr., wears two hats in his occupation. He is Sales Engineer for B-Y Industries, Inc., of Fort Wayne, Indiana, designers and builders of special equipment for the manufacture of rubber products. He is also Special Consultant for Fuller Ultraviolet of Chicago, which produces ultra-violet equipment.

'46 JACK E. STEELE, recently retired from the U.S. Air Force, still lives in Dayton, Ohio. Jack earned his MD from Northwestern in 1950, and practiced medicine throughout his service career. He is now Medical Director, Drug Treatment Unit, Dayton Mental Health Center. Jack has almost completed a MS degree in Systems Engineering at Wright State University. Here is a good example of how "general" the general engineering graduates can become.

'50 S. DEAN ALBRECHT has been in business for himself as president and manager of Albrecht Well Drilling, Inc. During the summer of '73 he had a very interesting opportunity to be a part of a Goodwill People-to-People Mission, in which 34 members of the National Water Well Association traveled to Spain, Italy, Russia, Germany, France, and England. The group had an opportunity to talk with drillers and hydrogeologists as well as to see various operations, including the Krupp lignite mining enterprise near Cologne, Germany. Dean felt that it was a most valuable experience for all.

'50 PAUL C. JONES, calling himself "The Flying Farmer," took time out from his basic occupation to race his new Corvette to a National Championship First Place for 1974 in production racing, central division, Sports Car Club of America. Paul feels that racing will be curtailed by the fuel shortage because a full race 427 cubic inch engine gulps gas at 2.5 mpg to attain speeds up to 160 mph.

'51 RICHARD A. NORBERG has been promoted to Vice President of Sales, Rockford Products Corporation, Rockford, Illinois.

'58 WAYNE A. HAMILTON recently brought his son Larry down to campus for a visit to begin the process of enrolling at UIUC.

'59 JERRY H. HOGAN received his master's degree in Systems Engineering from the University of Arizona in 1967. Last summer he returned from Indonesia to begin his new assignment as professor of Systems Analysis at the Naval War College, Newport, Rhode Island. Jerry is still in the Army, and plans to remain at the War College for three years.

'61 DAVID A. WEAVER has been working with the Kankakee County Highway Department ever since leaving school. Dave has charge of design and construction of roads and bridges, and maintenance of approximately 250 miles of county roads. He was the project director for a one-day demonstration of slip-form paving project presented to Concrete Paving Association members assembled from the mid-west. Dave is a registered professional engineer in Illinois, and is now the president of the Kankakee Area Chapter of the Illinois Society of Professional Engineers.

'62 GLENN L. IRWIN last year became Regional Representative for the American Consulting Service of Minneapolis, an engineering firm specializing in study of sanitary sewer systems. Glenn covers the states of Illinois, Indiana and Michigan, and makes his home in Downers Grove.

'66 LOIS BACKER ROBERTS, registered professional engineer in both Connecticut and New York, and her husband, Louis, are going into business together as architect and mechanical engineer in Vinal Haven, Maine. They have just finished working on a large industrial complex in Connecticut. Their daughter, Guilietta, is four and a half years old.

'67 JESSE W. BOEHLER has just become Assistant Plant Manager for Oswalt Division, of Butler Manufacturing Company in Garden City, Kansas. He earned his MBA from Illinois in 1969. Jesse and his wife Michele have two children, Matt, age four, and Jill, age two.

'67 ARTHUR B. HILLMAN III completed his MBA in August, 1973 and Juris Doctor degree in December, 1973. He is now an attorney with Trans Union Corporation, Chicago.

'68 GEORGE A. PAGELS and wife Suzy will be living in Chiang Mai, Thailand, during the first five months of this year, while George carries out a research project on infectious disease. His work is being financed through a grant from Midwestern University Consortium for International Activity. He is scheduled to complete his MD degree in May and begin his internal medicine internship this summer.

'68 ANTHONY ZUMPARO is a Senior Civil Engineer with the Metropolitan Sanitary District, Chicago. He became a registered professional engineer in 1972, and completed his MBA from Loyola University in February of this year. Anthony plans to marry Peggy Tyszkiewicz, a graduate of St. Xavier College.

'71 E. JERRY KENNEDY, following nine months of training in California, now works for the MGD Graphics, Division of Rockwell International, in Downers Grove. He is involved with mini-computers as applied to printing presses, and has begun his graduate work at IIT.

'71 DANNY L. NELSON is now working with Daily and Associates, Engineers, Inc., on the project of the Champaign County Solid Waste Management Study. He formerly was with the U.S. Army Construction Engineering Research Laboratory in Champaign while pursuing his master's degree studies. His wife, Kathy, completed her degree in Home Economics last spring.

'72 FRANK J. FRONCZAK earned his M.S. in T & AM at the Urbana campus in January, 1974, and is now a research assistant at the University of Kansas, working toward his Doctor of Engineering degree. His research is sponsored by NASA, dealing with vibration in rocket fuel tanks and lines induced by the propulsion system. Frank finds time to watch the great K.U.'s basketball team, and notes that six of the top seven players are from Illinois.

'72 DENNIS D. LANE has passed his prelims for a PhD degree in Environmental Engineering.

'72 MICHAEL J. RIZZO is a Systems Engineering Coordinator working out of the Hinsdale, Illinois, office of Industrial Nucleonics. Mike is supervising installation and start-up of six computer systems for one of the company's largest customers. Sites range from Los Angeles to London, England.

'73 THOMAS M. SAUNDERS has completed a five-month Graduate Training Program with the Westinghouse Electric Corporation, and is working as an Assistant Sales Engineer in Denver, Colorado. Tom says to "Think SNOW."

'73 MICHAEL SCHOLTES is a safety engineer with Carbon Products Division, Union Carbide Corporation, in Greenville, S.C. He is responsible for OSHA compliance at the plant. Mike is learning much and finding the work interesting. He is definitely pleased that his senior design project taught him so much about OSHA that proves a distinct advantage in the present situation.

'73 ROBERT B. BURNS, Jr., is a design engineer with Stran Steel Corporation in Houston, Texas. Bob points out that the G.E. curriculum has been very helpful to him in the "real" world, especially background in structures, which is the core of his present position. He feels that his studies will serve him as he begins work towards a Juris Doctor degree in corporate law at the University of Texas College of Law. Bob's wife Marlee-Jo plans to earn her Master's in Social Work.

'73 JAMES MASON earned the highest grades of all students at the Northwestern Medical School on the final exams for the winter quarter. Jim's senior design project partner, JOSEPH J. SARMIENTO, visited the campus and was bragging about him.

'73 JOSEPH E. RILEY is one of four engineers in the group of 14 trainees with the Chicago & North Western Transportation Company. Joe is in the Engineering Department, concerned with maintenance of way. He speaks highly of C. & N.W., which is an employee-owned company that is really interested in people. Joe is already an enthusiastic P.R. man.