



# NEWSLETTER

Vol. XII, No. 1, Fall, 1969

## DEPARTMENT OF GENERAL ENGINEERING

University of Illinois · Urbana, Illinois

### STUDENTS RECEIVE DEPARTMENT AWARDS

On May 7, the Department of General Engineering honored its outstanding students at the annual spring banquet. GERALD PINE, '69, Urbana, received the seventh E. S. Fraser Award in recognition of his outstanding scholarship. Since 1963 this award has been given annually to the G.E. senior with the highest average.

STUART E. WILKENING, '69, Cissna Park, was chosen from 50 graduating seniors to receive the sixth Marcus-Phillips Award. Selection for this honor is based 50% on extracurricular activities within the University, 10% on extracurricular activities outside the University, 10% for professional activities and organizations, 10% on faculty ratings, and 20% on student vote.

The second R. P. Hoelscher Award went to PAUL LITHERLAND, '70, St. Francisville. Selection criteria for this award are scholarship, participation in technical and professional societies, and cultural development - choice of social-humanistic electives and non-technical activities both on and off campus. Paul also received the College of Engineering's Honeywell Award, given to recognize unusual scholastic accomplishment, participation in technical and professional societies, and other campus activities by an engineering junior. (Continued on page 2)



Paul Litherland, left center, received Hoelscher Award from Profs. Larson, Hoelscher, Dobrovolny.

### ALUMNI RETURN FOR TECHNICAL SESSIONS

The G.E. alumni expanded their annual return meeting this fall to include three technical sessions, each led by one or more general engineering graduates. A total of 18 G.E. graduates participated in at least some facet of the program; nine alums were accompanied by their wives. Also attending were faculty and current students.



Technical Session Leaders: left to right, Gerry Larson, Bob Anderson, Ken Gablin, and Bill Ziel.

Oceanography was the topic of the first technical session Friday afternoon. Two of the leaders of Mechanical Research, Inc. of Long Beach, California, and of Tacoma, Washington, joined to describe the unlimited resources of food and minerals potentially available through technology, as well as the part being played by their company. KENNETH A. GABLIN, '56, is Associate Director, and Dr. ROBERT H. ANDERSON, '53, President and Board Chairman of the company. Bob is also 2nd Vice President, Pacific Western Region of the American Society of Oceanography.

The second session dealt with bionics, which utilizes living systems as energy prototypes. JACK E. STEELE, '46, M.D. '50, Northwestern Medical School, Col. USAF (MC) of Dayton, Ohio, illustrated his talk by showing how the shape of a fish was the pattern for ship hull designs, and the contour of a bird's wing the prototype of a plane's airfoil. (Continued on page 3)

## STUDENTS RECEIVE DEPARTMENT AWARDS (cont'd)

The first annual presentation to the outstanding GE 242 Project Design was presented at this time for the 1968 calendar year. Recipients were GARY FARISS, '68, and BURR LOGEMAN, '68, for their "Design of a Vehicle for Expressway Operation for a Quadriplegic." Prof. MORRIS SCHEINMAN served as principal consultant for the project. Each team member received a certificate and a check for \$25. You may recall that this project won second prize in the national Lincoln Arc Welding Design Contest.

In addition, two other teams tied for honorable mention in the national contest. DAN COMPTON, '68, and ROBERT JONES, '68, designed "An Electronic Locking System" with Prof. LOUIS WOZNIAK as principal consultant; STEVEN STADNICK, '68, developed a "Design of an Eddy Current Braking System for High Speed Trains." Mr. UFFE HINDHEDE was his principal consultant. Each of these students received a certificate and a check for \$10.



*Award recipients, left to right: Robert Jones, Stuart Wilkening, Dept Head Jerry S. Dobrovolsky, Gerald D. Pine, and Steven Stadnick.*

## GAMMA EPSILON NOTES

Gamma Epsilon closed the 1968-69 school year May 14 with its annual initiation banquet, at which Professor CLETUS BOWMAN spoke on "Biomechanics." In addition to the members added last fall, four more were tapped in the spring. They were BRUCE A. HUBER, '71, Fairbury; RICHARD E. KANNENBERG, '70, Champaign; LARRY S. SAXBY, '70, Rosiclare; and DAVID SCHNEIDER, '72, Metropolis.

Officers for '69-'70 are: President, GEORGE E. CONWAY, '70, Rock Island; Vice President, DAN NELSON, '71, Varna; Secretary BRUCE HUBER; and Treasurer, RICHARD KANNENBERG. Plans are under way for the annual field trip, this term to a steel mill near Chicago.

DEAN HARVEY H. JORDAN  
1885 - 1969

Professor emeritus HARVEY H. JORDAN, 84, Associate Dean of the College of Engineering and first Head of the General Engineering Curriculum, died June 28, at his home at 809 South Busey Avenue, Urbana. He was buried at Mt. Hope Cemetery on the south edge of the campus.

Born in Waltham, Maine, Prof. Jordan received his B.S. degree from the University of Maine in 1910. The next year he came to Illinois as a graduate student and Instructor in engineering. In 1919 he married SARA SLATER of Polo, Illinois. Other members of his family include a daughter residing in Urbana, three grandsons, a sister, and four brothers.

Dean Jordan was on the faculty for 42 years, attaining full Professorship in 1921. He was Associate Dean of the College from 1934 until his retirement in 1953. He was Head of General Engineering Drawing from 1922 until 1949.

Many former General Engineering students will remember Dean Jordan for his strict admission procedures for the curriculum, his counseling activities, and his rich Maine accent.

Outside the University, he served for many years as Alderman of Urbana, was a member of numerous professional societies, and senior author of several important textbooks. He held several offices in the American Society for Engineering Education. His other community activities included Presidency of the Champaign-Urbana Family Services Organization and of the Champaign-Urbana Kiwanis Club.

A man with many friends in the community, the University faculty, the student body, and the alumni, his memory is held in high regard by those of us privileged to have known him. He has made both personal and departmental contributions.

## CARL EDSTROM TO AFRICA

CARL EDSTROM and his family departed for the dark continent on October 6, where he has accepted a position with the "Free University of the Congo" at Kisangani, formerly Stanleyville. His duties will include coordinating the extensive building program of this new University. He will also act as "on site" campus architect. The University, located on a 250-acre site, presently has an enrollment of 500 students to be expanded to 5,000. Sixteen nations are presently represented on the faculty.

While in the Congo, Carl will compile data for his doctoral dissertation in vocational education, investigating "how men in the Congo construction industry have attained their skills." On the way, Carl plans to stop off in Switzerland to visit the International Labor Office.

The Edstrom family are Congo veterans, having lived there at intervals since 1951. Carl speaks both French and native Lingala. We in General Engineering wish them "bon voyage" and a productive and happy tour of duty.

## STUDENTS SERVE ON FACULTY COMMITTEES

G. E. students are active on both University and College of Engineering committees. DAN NELSON, Varna, a James Scholar, has recently been asked to serve on an all-University group to study the James Scholar Program of the past ten years and to recommend the direction it should follow for the next decade.

Five College of Engineering committees also include undergraduates: Awards, College Honors, Placement, Student-Faculty Liaison, and Teaching Improvement. Of the 11 appointed by Engineering Council, two are G.E.s. WALTER SCHNEIDER, Villa Park, is a member of both Student-Faculty Liaison and Teaching Improvement Committees. DAN NELSON petitioned for and was appointed editor of Tech-nograph, engineering student magazine. JAMES DOBROVOLNY, Champaign, is student colonel of the University R.O.T.C.



Dan Nelson



James Dobrovolny

## ALUMNI RETURN FOR TECHNICAL SESSIONS (cont'd)

For the Saturday morning technical talks, WILLIAM W. ZIEL, '66, and GERALD A. LASSON, '65, described the organization and operation of their company, Industrial Nucleonics of Columbus, Ohio. Nuclear material is used to measure the output of, let's say, continuous plastic sheeting, and by computer control the desired thickness can be maintained to close tolerances.

During the brief business meeting, the following slate of officers was elected: President, LEON O. LINDLEY, '65; Vice President, PHILIP DECKOWITZ, '63; Secretary, WILLIAM F. WIESE, '55; Treasurer, RAY J. DePAUW, '66. Board of Directors includes: JOHN D. RAFFL, '63; MARVIN MRNKA, '59; JAMES GAFFNEY, '59; and Prof. JOHN PEARSON.



Newly elected officers, left to right, Treas. R. DePauw, Pres. L. Lindley, V-Pres. P. Deckowitz.

The meeting date for next fall has been set as the weekend of October 17, 1970. Mark your calendar and plan to come. But get your hotel or motel reservations early! - Why not now?

## WHATEVER HAPPENED TO . . . ?

Have you ever wondered what has happened to some of your former classmates? A surprisingly high percentage of the G.E. 1966 class attended the alumni dinner and enjoyed exchanging information. This is one way to keep track of your fellow-alums but not all can get here. We are therefore seeking volunteer Class Secretaries to write their classmates occasionally and keep us in touch. At our October 11th Alumni Meeting, BOB ANDERSON volunteered to serve for the Class of 1953 and KEN GABLIN for 1956. Good start! Who else will step forward?

To those who volunteer as Class Secretaries, we can furnish print-outs of names and latest addresses of all of their classmates. In no case is the list very long. Won't you let us hear from you soon?

#### ALUMNI OFFICER GIVEN AWARD

Past President of the GE Constituent Alumni Group JAMES GAFFNEY, '59, was presented a merit award at the Friday evening fellowship dinner by LOUIS LIAY of the Alumni Association. The citation read as follows: "The Alumni Association presents this MERIT AWARD to James Gaffney who, within fifteen years after leaving the campus, has rendered notable service to the University of Illinois." Thirty-seven alumni, faculty, and guests attended the banquet at the Brass Rail Restaurant. A social hour, a short musical program, and much informal visiting completed the program. Nearly one-fourth of the total members of the 1966 class attended the dinner and, obviously, enjoyed seeing each other again.



*Louis D. Liay, left, presents Alumni Association Merit Award to James Gaffney, right, at banquet.*

#### FACULTY FEATURES

##### Activities by Jerry S. Dobrovolny

In June, Prof. Dobrovolny was appointed by Governor Ogilvie to the State of Illinois Advisory Council on Vocational Education. The council is charged with the responsibility of acting as an audit agent to see that funds appropriated under The Vocational Education Act are expended for the best interests of the State to meet manpower needs, particularly for skilled craftsmen and technicians. Prof. Dobrovolny's broad background in the area of technical education will enable him to make significant contributions.

Prof. Dobrovolny has also been appointed an associate examiner for the North Central Accrediting Association to assist in the evaluation and accreditation of two-year schools offering programs in engineering technology. During the summer he has been working with the National Industrial Conference Board, the National Advertising Council, and the U.S. Office of Education in developing a national advertising campaign design-

ed to publicize generally the opportunities for youngsters in two-year associate-degree programs in various semi-professional occupations.

In October he addressed the Engineers' Council for Professional Development on the need for well-prepared technical instructors in junior college pre-engineering and two-year associate-degree programs in engineering technology.

Prof. Dobrovolny has been appointed chairman of the American Society of Civil Engineers Committee on Technicians and Technician-Education Programs. ASCE has taken a leading role in helping differentiate the various levels of engineering manpower needed for engineering projects.

##### Engineering and Technological Conference

Prof. R. A. JEWETT attended a two-week conference on "Engineering and the Technological Society," held at the Univ. of Santa Clara, California in August. Thirty faculty members from across the country met to study and discuss the relationship of technology to society and the influence of society's needs and problems on engineering decisions. Prof. Jewett will be using various ideas and projects from the conference in further developing his new course, Engineering Aspects of Contemporary Society.

##### Probabilistic Approaches to Engineering Design

During July, Prof. H. J. SPRENGEL attended a UCLA seminar on Probabilistic Approaches to Engineering Design, led by Prof. EDWARD B. HAUGEN, Univ. of Arizona. Under discussion was the random nature of the variables in any design problem. Material physical properties, stresses, strains, resistances, and other quantities are treated by a two-parameter statistical algebra which assists in tracing the effects of both averages and variability.

##### Motorcycle Licensing Program

Instr. LeGRAND L. MALANY has been working as Chief Investigator for the Motorcycle Driver Licensing Evaluation Committee, a joint project of the State of Illinois and the University. The committee's report has been submitted to the Secretary of State's office to recommend establishment of a motorcycle driver's licensing program for the State. Lee is now preparing an administrative manual for driver-licensing personnel. The book will be used to train new license examiners, improve methods of testing, and update testing techniques and tests.

##### 1969 Annual ASEE Meeting

Several faculty members attended the annual meeting of the American Society (cont'd, page 7)

## NEW FACULTY MEMBERS

JERRY E. STONEKING, Asst. Professor, earned his B.S. in Engineering Mechanics at the Georgia Institute of Technology, and the M.S. and Ph.D. degrees in Theoretical and Applied Mechanics at the U. of I. His major fields of interest were Mechanics of Solids with a minor in Mathematics,



and his thesis topic was "A theory for the free vibration of anisotropic shells of revolution." Prior experience has been as a design engineer with General Motors in Atlanta, and as a teacher in the U. of I. TAM Department. He is a member of Tau Beta Pi, Phi Kappa Phi, Society of Sigma Xi, and has held a NSF Traineeship for four years. "The

Boundary Value Problems for the Sphere in Classical Elasticity," by Stippes and Stoneking, will be published in the report of the Fourth South-eastern Conference on Theoretical and Applied Mechanics. Jerry and KAYE reside in Urbana.

JACK K. HAMM, Instructor, earned a B.S. in Civil Engineering, structures option, at the University of Illinois in 1941. Upon graduation he accepted a commission with the U. S. Naval Reserve and saw active service to 1945. Following Naval service, he was engaged in retail building, wholesaling steel, and operating as a general contractor. He returned to Illinois study and received his M.S. degree in 1969. He lives in Sheldon with his wife, JANE, '41, P. E., a physical education teacher at Watseka Junior High School. A son, sophomore in Commerce, and two married daughters, Illinois alumni engaged in high school and elementary education, complete this all-Illini family.



ARNOLD R. NESS, Instructor, has served the Department for several years as a Teaching Assistant. He holds the B.S. and M.S. degrees in Mechanical Engineering and is presently working toward a Ph.D. in Machine Design, investigating the effect of cyclic loading in bolted assemblies. He has worked summers in the research and development labs for Westinghouse Co. in Pittsburg, Pa., duPont in Wilmington, Delaware, and International Harvester in



Melrose Park, Ill. His wife, SHARON, is a teacher at Kenwood Elementary School in Champaign.

## NEW JETS SUMMER PROGRAM

This year marked the start of a new summer program offered by the Illinois Junior Engineering Technical Society (JETS) designed to serve the "Inner City Youth."

Modeled after the regular two-week programs, this new offering was held on the Urbana campus from July 20 to August 2. Participants were selected from the inner city schools of both East St. Louis and Chicago.

Eighteen students participated in this program, all seniors from high schools in the inner city. Historically, graduates of these schools have not gone into Engineering and Science. With the need for Engineers at an all-time high, and for inner city dwellers to improve their economic status, this program should be most helpful. Already, four of the eighteen participants in the summer program have registered in Engineering for the 1970 fall semester.

It is anticipated that the program will be repeated next summer. Sponsors for this year included the following companies: Motorola Foundation, Western Electric, Commonwealth Edison, Illinois Bell Telephone, Electro-motive Division of General Motors, and the Bodine Fund (administered by the College of Engineering).

## SEOP - SECOND YEAR

After intensive recruiting by volunteers in city ghettos, the University of Illinois, last fall, began its Special Educational Opportunity Program (SEOP) for approximately 500 students who had been disadvantaged educationally, financially, and culturally. Twenty-eight enrolled in the College of Engineering, seven in G.E. By June, this number was reduced to sixteen in the College, one in the Department. The others had either transferred into other colleges on campus or dropped out of school. All of these sixteen engineering students returned to college this fall; one to Chicago Circle, and the other fifteen to the Urbana campus.

New recruits are also being added this year. Seven students, six of them freshmen and one a transfer, have entered the College of Engineering. Two of these are freshmen in General Engineering. This drop in numbers of students entering under SEOP is the result of three factors: reduced funds available from the federal government; upgrading of admission requirements for the program; and more careful screening of applicants by University staff members who cooperated with school counselors in choosing participants. We hope that all of these young people will be successful engineering students.

## ILLINOIS SOCIETY OF GENERAL ENGINEERS



Members present at September meeting were, left to right: [first row] Prof. Harrison Streeter, Prof. H. J. Sprengel, Instr. and Faculty Adviser Monte Phillips, Engr. Council Rep. George Conway, Treas. Dennis Polhill, Jo Blind, Vice Pres. Rick Kannenberg, Pres. John Cochran, Engr. Council Rep. Roger Crawford, Instr. Allen Krug, Prof. R. P. Borri; [second row] Brian Renwick, Terry Phelan, Jim Mason, Larry Saxby, Ronald Little, Walter DeLise, Daniel Jee, Marvin Glazer, George Voss, Dan Nelson, Glenn Long, Benny Siew, Richard Hoffman; [third row] Sam Hopwood, Mike Pretnar, Bill Murphy, Kevin Mix, Steven McLatchie, Mark Kuchefski, Tom Koehler, Mike Beawman, Karl Schaulin, Rick Moburg, Bruce Huber

The Illinois Society of General Engineers is embarking on a new and, hopefully, a prosperous year. I.S.G.E.'s membership drive this year has been quite successful and the society numbers are 150 strong, including both faculty and students. The society was founded to promote professional development and to further the mutual concerns of its members. In light of these goals, the scope of I.S.G.E.'s programs has been widened and the activities of the society diversified. Approximately once every two or three weeks, industrial representatives will be speaking to the society on such topics as marketing, sales, management, maintenance, research and development, and even, for the more adventurous, the possibilities of starting new companies. In order to supplement

the industrial representatives' views, seminars are scheduled throughout the year covering areas of discussion such as critical analyses of the five-semester design sequence, opportunities for G. E.s in graduate school, and current changes occurring in the College of Engineering. In a lighter vein, the members of I.S.G.E. are participating in intramurals, editing a student newsletter, and making plant trips. The officers aspire to complete successfully this ambitious schedule in an attempt to develop a rewarding and beneficial year for the society as a whole. Any suggestions or recommendations from Alumni will be welcomed; simply write: Illinois Society of General Engineers, 117 Transportation Building, University of Illinois, Urbana 61801.

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## C - E - R - B

This acronym, "Concerned Engineers for Restoration of the Boneyard" is the characterization chosen by a design team in G.E. 242. ROBERT J. CHIAFFREDO, '69, Westville; JAMES KRAKORA, '69, Chicago; RONALD E. LITTLE, '69, LaGrange; BRUCE McINTOSH, '69, Piper City; E. SANDER MOLDOVAN, '69, Salem; JEFFREY MORRIS, '70, Morton Grove; LARRY S. SAXBY, '69, Rosiclare; BRUCE A. YORK, '70, Lombard; and SAMUEL C. HOPWOOD, '70, Champaign. Sam Hopwood has also chosen this problem for his special project in G.E. 393.

The men expect to identify types and sources of Boneyard pollution both by referring to published information and by taking samples. They

will then examine a particular section of the stream and propose a feasible regeneration to preserve and develop natural resources. The group intends to establish interdisciplinary exchange with engineers, city planners, architects, lawyers, and public officials.

Long-range team objectives are establishing the physical need for such a project, developing good relationships with local civic groups plus University and municipal officials, and gaining public confidence and support. It is hoped that future G.E. 242 students may be able to continue the project. Champaign County Development Committee is already committed to assisting them.

## FACULTY FEATURES (cont'd)

## ALUMNI NOTES

of Engineering Education (ASEE) held at Pennsylvania State University in June: Professors JERRY S. DOBROVOLNY, ROBERT P. BORRI, EDWARD D. EBERT, GRACE WILSON, and ROBERT W. BOKENKAMP. An interesting item at the meeting was the Engineering Graphics display of some 175 student projects from 50 schools. The purpose of the display was to stimulate fresh ideas for freshman-sophomore graphic design.

Allerton Park Conservation Drive

As Director of the Committee to Save Allerton Park, Instructor BRUCE HANNON has been active in efforts to avert possible damage from construction of the proposed Oakley High Dam.

This unique 1500-acres of flood-plain woodlands was given to the University in 1947 by ROBERT ALLERTON, and is used for ecological and biological studies of mature forests, wildlife, plants, landscape architectural design, and as a badly-needed public park and recreational area.

Committee members include engineers, lawyers, biologists, artists, economists, botanists, and zoologists. These people have combined their techno-political skills to devise alternate plans of impounding adequate water supplies without permanent or serious intermittent flooding in the low park areas.

Computer Mapping Symposium

Asst. CHARLES STONE attended a training symposium on "Computer Mapping of Quantitative and Qualitative Information," at North Carolina's Research Triangle Park this summer. The conference was co-sponsored by the National Air Pollution Control Administration and the Harvard Univ. Laboratory for Computer Graphics and Spatial Analysis. The use of computer graphics as a means of clearly portraying data related to the sources, distribution, and community effects of air pollution was covered by the conference.

Airborne Engineers

Several students and one faculty member of the General Engineering Department have earned their private pilot's license at the University airport in recent months. Willard Airport ranks second in the State of Illinois in terms of number of takeoffs and landings, due to the large number of students who learn flying from the Institute of Aviation. The University maintains a fleet of 51 aircraft, ranging in size from two-place Champion trainers to a DC-6 airliner. Prof. HARRISON STREETER and G.E. students DICK HOFFMAN and PAUL LITHERLAND are among the latest fledgling certificate holders.

Class:

'25 ARTHUR C. REHM has retired as Building Official of West Palm Beach, Florida.

'31 RENATO ALGHINI, Morton Grove, Illinois, is a registered representative of Reynolds and Co.

'34 ROGER S. FABRI, Chicago, is working for a large industrial complex in Mexico which requires a great deal of traveling.

'37 ROBERT B. STAMPFLE is with Bethlehem Steel Corp., Pennsylvania, and works with steel railroad products as a metallurgical engineer.

'38 ROBERT W. DALRYMPLE has accepted the position of Asst. Professor of Civil Technology at Metropolitan State College, Denver, Colorado.

'38 ALFRED H. HUNTER is living in St. Louis, Mo. He is Vice President for Soils and Foundations with Fruco and Associates, Inc.

'42 ALVIN J. BLAKE, Ph.B. '47 Northwestern, was hospitalized for two months with a back injury. He is presently recuperating at home in Oak Park.

'44 CHRIST D. KACALIEFF, President, Chris Kaye Plastics Mfg. Co., Madison, Illinois, reports developing a new plant in St. Louis County.

'47 THAXTON HANSON, J.D. '50 Univ. of Michigan, Judge of the Superior Court of Los Angeles County, California, is also active in Army Reserves.

'50 WALTER J. OLIVER, MBA '59 University of Chicago, has a new position as Chief Engineer for Autoquip Corporation in Chicago.

'51 DONALD M. BRAUGHT, Senior Analysis Engineer, Lockheed Aircraft Co., is currently assigned to Torino, Italy. Don and family enjoy skiing in the Alps and swimming in the Mediterranean Sea.

'51 D. EDWARD WRIGHT is living in Albuquerque, New Mexico, where he is the owner of Newmark Co. Ed's new business venture is dedicated to the evaporative roof cooling system market.

'53 SHERMAN BREMER, Champaign, has a patent on a tool for tapered reaming and facing of plastic pipes. A novel feature is detachable facing cutters, providing adaptability to all pipe sizes.

'53 RICHARD W. REYNOLDS, M.S. '58, is employed in the research division of Sundstrand Aviation, Rockford, as an advising engineer.

'54 ROBERT MEYER, Train Master, Penn. Central in Philadelphia, supervises freight for 200 miles of track, 250 employees, and terminal operations. Traffic includes fuel, steel, lumber, and autos.

## A L U M N I N O T E S

## Class:

'55 WALTER W. FASTER, MBA '60 Univ. of Penn., is Marketing Director-New Enterprises, Betty Crocker Division of General Mills, Wayzata, Minnesota.

'56 LAURANCE S. STAPLES is Director of Customer Service for Tempmaster Corp., Kansas City, which specializes in high velocity air conditioning.

'57 RALPH I. STEPHENS, M.S. '60, Ph.D. '65 Univ. of Wisconsin, is Assoc. Prof. of Mechanical Engineering, Univ. of Iowa. He still recalls fun he and fellow classmates had in metallurgy class.

'57 DOYLE WILHITE, Merchandising Manager, Emko Co., St. Louis, is commanding officer of a Naval Reserve Surface Division and Officer-In-Charge of the Naval Reserve Training Facility, Wood River.

'58 JON L. PEACY, M.S. '67, is working on his Ph.D. at the University of Washington, Seattle.

'60 WILLIAM A. GUETSCHOW, Evanston, holds the position of Planning Coordinator for the Bell System Center for Technical Education.

'62 RALPH T. HOCKING, MBA '64, reports working on a DBA at Kent State after four years in industry. He plans a teaching and consulting career.

'62 ARTEMUS W. PULFORD, Senior Design Engineer with Micro - Switch, Division of Honeywell, Freeport, added twin boys to his family this year for a total of four children. Congratulations!

'63 JACK M. PUNZAK, M.S. '69 Rensselaer Polytechnical Institute, is employed as a Research Engineer with Monsanto Company, Hartford, Conn.

'64 ROBERT D. LEONARD, B.S. '65 Communications, lives in Morton Grove. He is presently writing technical bulletins for new electronic data communications equipment for Teletype Corporation.

'65 KENNETH ARCHAMBAULT, still with 3-M Co., recently moved to Rutland, Vt., where he is a process engineer and quality control supervisor.

'65 JEFFREY D. DEMBO, MBA '66 Univ. of Chicago, Senior Systems Analyst for Abbott Labs, Chicago, married BEVERLY MEYER, M.S., Harvard, in June.

'65 RONALD J. KESSNER is residing in Burnsville, Minnesota, and is employed as a sales engineer with the Carrier Air Conditioning Company.

'65 SHELBY D. LAWDER is a F-100 pilot with the United States Air Force, Pacific Command.

'65 CHARLES ROWLEY, M.S. '67, is a submarine officer stationed at Holy Loch, Scotland. Charles has a daughter and a son.

## Class:

'66 LOIS BACKER ROBERTS, New Canaan, Conn., is working at home designing heating, ventilating, and air conditioning systems for an architect.

'66 BRUCE L. SAMLAN, J.D. '69 DePaul, a patent attorney for Westinghouse Electric Co. in Pittsburgh has one son and a newborn daughter.

'67 RICHARD J. COLVER, MBA '69, is working toward a Ph.D. in Business at the U of I studying organizational theory and systems analysis.

'67 GARY MARCUCCI, MBA '69, a former Grad. Asst. in this Dept., is now in General Electric's Manufacturing Management Program in Danville, Ill.

'67 JAMES E. SKIERSKI, MBA '69, is employed by Esso Standard Eastern (Standard of New Jersey) in New York City as a supply analyst.

'68 DANIEL J. COMPTON, B.A. '68 St. Joseph's College, Ind., is a control engineer with Allen-Bradley Company in Milwaukee, Wisconsin.

'68 PHILLIP KASIK, M.S. '69 Univ. of California, will be attending Officers Candidate School in New Port, Rhode Island and expects to be commissioned an Ensign in the U. S. Navy by January.

'68 LARRY K. LEKOVISH has been commissioned an Ensign in the U. S. Navy and is working in naval communications in London, England.

'68 CHARLES MAHAN, studying law at Ohio State, reports plans to marry a Buckeye graduate.

'68 PAUL R. SAHLIN is employed by the McDonnell Douglas Corporation, Long Beach, California, as an Associate Engineer/Scientist.

'68 LONNIE SEYMOUR, Design Engineer, FMC Corp., Canning Machinery Division, Hoopeston, married Miss SUE KENTNER of Rossville, Ill., in August.

'68 THOMAS J. VOKAC is employed as a Missile Launching and Handling Engineer for Westinghouse Electric Company in Sunnysdale, California.

'69 ARDELL W. NEASE is a component engineer in the Space Division at North American Rockwell in Downey, California.

'69 Second Lieutenant DOUGLAS C. OETTING, USMC, is in jet pilot training at Meridian, Miss.

'69 LESLIE J. PAPERNER is a patent examiner at the U. S. Patent Office in Washington, D. C.

'69 ROBERT G. WITHROW, Second Lieutenant, USMC, is training at the Marine Tactical Basic School in Quantico, Virginia.