



NEWSLETTER

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DEPARTMENT OF GENERAL ENGINEERING

University of Illinois · Urbana, Illinois

STUDENT SENIOR DESIGN PROJECT WINS NATIONAL AWARD

The solution to an engineering class project involving design of devices which could enable a severely handicapped quadriplegic to drive his own automobile has won a \$1,000 prize for two alumni of the University of Illinois at Urbana.

The project on which they worked as seniors last year has received the national second place award in the James F. Lincoln Arc Welding Foundation 1968 Student Engineering Design Competition.

Recipients are GARY B. FARISS of 919 Sharon Drive, DeKalb, now a customer engineer with Control Data Corporation in St. Paul, Minnesota, and BURR W. LOGEMAN of 301 Coventry St., Peoria, now a field engineer with Schlumberger Wells Services in Wooster, Ohio.

The problem was to design vehicle controls and modifications for GEORGE STUPP of Frederick, Md., a quadriplegic who is an honor student in the University of Illinois. As a result of polio 12 years ago he has no use of his legs and limited use of arms and hands.

The goal was that he "should be able to independently operate the highway vehicle with the same dexterity, comfort, and safety as an able person." The prize-winning design includes both controls and vehicle modifications, which Fariss and Logeman estimate would cost \$7,000-\$8,000. They reported driver licensing possible, depending largely on performance in a road test, but said insurance might be costly.

One-hand control is through a single "joystick" handle and two electrohydraulic servo systems to actuate steering, brake and throttle. This is similar to the control with which Stupp handles his electrically-powered wheelchair in buildings and on walks.

Since Stupp could not transfer himself from the wheelchair to an automobile seat, the project included modifications to convert a parcel delivery truck to personal transportation while he remains in the wheelchair. Modifications include provisions for independently entering and leaving the vehicle, locking the wheelchair in place in it, and for restraining the driver's upper torso.

Fariss and Logeman were students in the senior project design course which has been given for several years by the General Engineering Department at Illinois. Focusing on "engineering for people" in social and environmental projects, it is aided by a grant from the Ford Foundation.

This was the first project entered in a competition. Among 20 others last year were new types of buildings, investigation of railroads with 18-foot track gauge, marinas, farm facilities, and low-cost housing.

Many projects are carried on by successive groups with students of one year taking up from those of the preceding. If funds can be obtained, this year's class is considering building a prototype of the vehicle for which Fariss and Logeman made plans.

The course is under a committee headed by Prof. BERT O. LARSON under the department head, Professor JERRY S. DOBROVOLNY. Adviser for the prizewinning project was Prof. MORRIS SCHEINMAN.

In addition to the award shared by the students, the University received a plaque and \$300 from the Lincoln Foundation. The awards were presented for the foundation by Dean WILLIAM L. EVERITT of the U. of I. College of Engineering at a dinner meeting of the General Engineering faculty.



Receiving awards for the GE Department from Dean W. L. Everitt, left, are Professors Bert O. Larson, center, and Morris Scheinman, right.

CREATIVE DESIGN TEAM AWARDS

Two teams of students in G.E. 104, Graphics II, have each received an award of excellence on solutions for an assigned design project at the Introductory Creative Design Graphics Display in June. The display was part of the program of the Graphics Division at the annual meeting of the American Society for Engineering Education, UCLA.

In the competition students were given the drawing of a small machine part and required to design machine and procedure for making a large number of pieces, 500 per month for five years. After instruction in how engineers approach such problems to choose the most economical design, the class was divided into groups of two or three. Each team was required to keep a notebook in which they recorded their activities, the development of their ideas, including justification for rejection of proposed designs, and solutions.

Students involved were: TERRY R. TEEPLE, '69, Belvidere, ROBERT E. DEMMERT, '71, Mt. Prospect, and ROGER M. RASK, '71, London Mills; GEORGE E. STOLLER, '71, Eureka, STEVEN L. SWEARINGEN, '71, Melvin, and JOHN C. WHITE, '70, Champaign. Rask, Swearingen, and White are G.E.'s.

ANNUAL ALUMNI MEETING

The second General Engineering Alumni Association meeting was held September 27 - 28 at the Brass Rail, Urbana. Two dozen alumni, faculty, and wives attended the Friday evening fellowship dinner, the Saturday meeting and luncheon, and the football game against Missouri.

The Friday evening dinner highlighted rib roast and plenty of opportunity for visiting. A formal program had purposely been omitted. From Belleville, WILLIAM, '41, and PHYLLIS SHIVE were early arrivals. Late-comers were ALVIN J., '42, and Mrs. BLAKE, in their own plane, somewhat delayed (two hours) by hazardous flying conditions. They were given dinner anyway, courtesy of the management. Commiserating were GEORGE A., '48, and WANDA ANDERSON, Champaign; he a World War II pilot. The distinction of coming from farthest away belonged to WILLIAM, '66, and SHARON ZIEL, of Columbus, Ohio. Treasurer DOYLE, '57, and MARGE WILHITE, from Webster Groves, Mo., brought their two children. RAY J. DePAUW, '66, Cary, was also in attendance.

Comparison of experiences by GRANT BEVERLY, '26, Milwaukee, and JEFFREY D. DEMBO, '65, vice president from Highland Park, was lively and enjoyed by the other guests, as the two reminisced about their separate boat trips during July and August down the Colorado River.

Saturday's business meeting was held in the General Lounge of the Union. JAMES F. GAFFNEY,

'59 (accompanied by his wife DONNA) led active discussions. Association By-laws were adopted and ways and means to secure participation by more alumni were considered. Officers were continued from last year, except that a new secretary, WILLIAM F. WIESE, '55, was elected.

PHILIP DECKOWITZ, '63, Chicago, has volunteered as chairman of the membership committee and will initiate a program to reach all alumni through volunteers in local areas. Another goal of this committee is updating the membership roster. LEON LINDLEY, '65, Rochester, was appointed alumni representative to a statewide junior college guidance-program board being sponsored by the Illinois Society of Professional Engineers.



Among alumni attending the meeting were, left to right: seated, James Gaffney, Rockford, president of the association, and Jeffrey Dembo, Highland Park, vice pres.; standing, Phil Deckowitz, Chicago, membership chairman, and Leon Lindley, Rochester, chairman of the education committee.

NEW PUBLICATION

"Group Decisions in Industry," a 108-page manual by Prof. WILLIAM F. BERKOW, is to be published by the American Society of Tool and Manufacturing Engineers as a part of their Manufacturing Practice Refresher Series. Topics covered are material and lessons in writing engineering specifications, considerations of economic factors, purchasing, and illustrated with numerous "Case Studies." When published, the manual will be used in our design course sequence.

NEW DEAN OF ENGINEERING COLLEGE

Prof. DANIEL C. DRUCKER of Brown University, Providence, Rhode Island, has been named Dean of the College of Engineering effective November 15, 1968. At Brown since 1947, he had earned bachelor's, civil engineer's, and doctor's degrees from Columbia University, and is a registered PE in Rhode Island. He was chairman of the Division of Engineering from 1953 to 1959 and chairman of the Physical Science Council from 1961 to 1963. He has also been professor of engineering and L. Herbert Ballou University Professor.

Dean Drucker has been described as "extraordinarily productive as a research scientist and at the same time outstanding in educational and professional leadership." In 1966 he received the American Society of Civil Engineers' von Karman Medal for contributions to mechanics of solids and engineering structures, and in 1967 was elected to the National Academy of Engineering.

Beyond teaching and research, his experience includes work in the field office for construction of the New York City Queens - Midtown Tunnel and two years as full-time supervisor of industrial research on mechanics of solids at Armour Research Foundation in Chicago. He is technical editor of the Journal of Applied Mechanics and on the editorial board of Quarterly of Applied Mechanics; author of a textbook, "Introduction to Mechanics of Deformable Solids," and of portions of other technical books. He has published more than 90 papers in technical journals.

Dean Drucker is chairman of the U.S. National Committee of Theoretical and Applied Mechanics, and has been a U.S. delegate to the General Assembly of the International Union of Theoretical and Applied Mechanics, past president of the Society for Experimental Stress Analysis, and past chairman of the Applied Mechanics Division of the American Society of Mechanical Engineers.

He is a fellow of the American Academy of Arts and Sciences, American Society of Civil Engineers, American Society of Mechanical Engineers, American Association for Advancement of Science, and an associate fellow of American Institute of Aeronautics and Astronautics.

He succeeds Dean WILLIAM L. EVERITT, retiring after 29 years with the university and 19 as dean of engineering.

Dean Everitt has achieved eminence for his work in industry, government, private consulting, and higher education. He has served on countless government and military panels and committees. He was a Founding Member of the National Academy of Engineering, and was recently elected to the

ASEE Hall of Fame. For his many achievements in engineering and in higher education he has received numerous medals and awards, including eight honorary degrees.

Dean Everitt leaves the University with an equally full career ahead of him. He will continue to work with various governmental groups, to serve on committees, to consult for industrial companies, and to edit and write technical articles and books. Perhaps the most notable evidence of his reputation is his recent appointment as Chairman of the National Academy of Engineering's Committee on Telecommunications. He will continue to reside in Champaign-Urbana.

FACULTY FEATURES

Activities of Department Head

During the year, the presidency of the American Technical Education Association has kept JERRY S. DOBROVOLNY busy attending conferences including keynote talks at regional meetings in Connecticut, New Jersey, and Chicago. He also attended the National Clinic on Technical Education in Albuquerque as chairman of a technical session.

The American Association for the Advancement of Science has also asked him to serve as adviser on technical education. During July he helped plan a two-day conference for 60 leaders in science and technical education to be held in Washington, D. C., and is writing papers as well as organizing programs for the annual AAAS convention to be held in Dallas December 29.

UI-NSF Technology Institutes

Over the last ten years an increasing need has become apparent to provide upgrading opportunities for teachers in community colleges, technical institutes, and Associate-Degree programs. Under the directorship of JERRY S. DOBROVOLNY, Head of the General Engineering Department and the sponsorship of the National Science Foundation, the University has conducted eight successive summer and five academic-year institutes to meet this need.

Latest of these, the 1968 Summer Institute in Engineering Technology, helped 41 staff members of post-high school technical curricula to extend and up-date their subject-matter competency in electronics and machine design technology. University faculty offering courses in the Institute included Professors Dobrovoly, EDWARD L. BROGHAMER, Mechanical Engineering Department, DANIEL S. BABB, Electrical Engineering Department, and BRUCE M. HANNON, GE Instructor.

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FACULTY FEATURES (cont'd)

Currently the 1968-69 Academic Year Institute in Electronics Technology is also being offered, with 14 students in residence. Subject matter being covered includes linear network theory for circuit analysis, electronics, special problems in computer techniques, differential equations and orthogonal functions, theory and fabrication of solid state devices, and application of differential equations to electrical engineering problems. Director Dobrovolny, Assoc. Director Babb, and Assoc. Professor RONALD J. PLACEK are teaching staff.

Advanced Science Seminar

Professor BERNT LARSON this summer attended a NSF (National Science Foundation) eight-week advanced science seminar on computer-aided design in engineering education at the University of Houston. The group spent one week at the NASA space center working with the Hybrid Computer. Computing center facilities included a SDS SIGMA 7. The 25 participants were offered courses in morphology of design, modeling and simulation, introduction to computer-aided design, analysis by computer, software management, optimization, decision theory, man-machine interface, planning graduate design courses, and individual computer-aided design projects.

Airphoto Interpretation - Site Selection

In June MONTE PHILLIPS, Instructor, attended an intensive two-week short course in airphoto interpretation and site selection at Purdue University. For the eleven-week Engineering Technician's Training Program sponsored by the Illinois Division of Highways he also taught a course in highway materials from June 16 to August 30. To round out a busy summer, Monte, with two other staff members, W. D. MARTIN and D. C. O'BRYANT, enjoyed a fishing trip to northern Ontario.

Law, Case Methods, and Human Factors

Asst. Prof. HARRISON STREETER attended the ASEE convention this summer as a member of the "Legal Phases of Engineering" committee. He participated in sessions on the role of law courses in engineering education, the teaching of such courses, and the teaching of engineering design.

He also attended a three-day Stanford University conference on the use of case materials to teach engineering. Although long standard in law and business administration schools, only recently have case studies become important for engineering. Because a case presents problems with all the complexities encountered in industry, students learn to deal with and appreciate actual practice rather than oversimplified text-

book versions. This method is not adaptable to every course, however, and he feels maximum benefit can be derived only through selection of cases appropriate for classroom use and employment of skilled, experienced instructors.

A three-week short course at North Carolina State University on ergonomics (human factors) in engineering was attended in July and August. Ergonomics deals with the relationship between man and his working environment, such as vibration, noise, heat stress, and visual strain. Experimental work proved especially beneficial. Harry will be teaching ergonomics this year on a part-time appointment in industrial engineering.

As a "vacation" he attended a one-week seminar on patents and related problems at the John Marshall Law School in Chicago.

Motorcycle Licensing Program

LeGRAND MALANY, Instructor, is project coordinator for the Illinois motorcycle operator's licensing evaluation program to formulate written, skill, and road tests for applicants under a new state law which goes into effect January 1. The work is being done by the University of Illinois Highway Traffic Safety Center in conjunction with the Drivers Licensing Division of the Secretary of State's Office. Included will be writing of an examiner's manual and an educational workshop to train state examiners.

Scotland for Engineers

THOMAS P. GROSZCZYK, Graduate Assistant, was afforded the unique opportunity to participate this summer in the International Association for the Exchange of Students for Technical Experience program. IAESTE is a private non-profit organization which enables students of engineering and the sciences to obtain on-the-job training in foreign countries. Founded in 1948 by universities and industries of nine Western European countries, the program now has 5,000 industries providing experience for 10,000 students a year.

Assoc. Dean HOWARD WAKELAND is campus representative, and helps arrange traineeships in the students' fields of interest and, whenever possible, in the country preferred.

Tom's assignment was the Euclid Gear Plant, Peterhead, Scotland, which manufactures transmissions for Euclid earthmoving equipment. During his eight weeks there he was assigned to four different shop areas: testing, assembly, gear-cutting, and heat treatment.

He found the people extremely friendly, helpful, and as inquisitive about our way of life as he was of theirs. He considers his summer an unforgettable experience.

G.E. STAFF CHANGES

Promotions: RONALD J. PLACEK and DAVID R. OPFERMAN to Associate Professors. Ron will be on a part-time appointment with the Mechanical Engineering Department.

Departures: Asst. Professor R.W. DALRYMPLE; Instructors PAUL A. DANNER and JOHN L. SCHLAFER.

New Faculty Members: HERBERT J. SPRENGEL, Asst. Professor, received his B.S. in Engineering Physics and M.S. in Physics at the University of Illinois. Before returning to Urbana, he had extensive industrial experience with the General Electric Co. of Milwaukee as an Advanced Manufacturing Engineer for the X-Ray Dept., and with the Continental X-Ray Corp., Chicago as Manager of Engineering and Manufacturing. His activities have been numerous including product and equipment design, production tooling, plant design and layout, and process development. He has also supervised shop operations of special-order engineered products and served as assistant superintendent in charge of vacuum tube products.



GEORGE F. McKEAGE, Instructor, earned a B.E. in Education at Keen State College, New Hampshire, and a M.S. in Education at the State University of New York. He is married, with two children. After serving with the Air Force, he taught industrial arts and general science in New Hampshire secondary schools, and was Associate Professor of Mechanical Engineering Technology at the State of New Hampshire Technical Institute of Concord. He was attracted to the University by attending three NSF-UI Summer Institutes in Engineering Technology - 1965, 1966, 1967.



JOHN T. PENDLETON, Instructor, received his Bachelor's and Master's degrees in Industrial Education at Bowling Green State University of Ohio. He is married, with one child. His three years teaching experience include both engineering graphics and process photography for printing or communications. At Bowling Green University he organized and directed television-taped lectures in engineering graphics, and helped pay his educational expenses with construction carpentry.



STUDENT-FACULTY DIALOGUE

The Department is continuing its program of entertaining at luncheon all students in the GE curriculum. Last year, the first year of the program, every student above freshman level was invited. This year, guests in the early semester have been limited to those in GE 221, Introduction to General Engineering Design, with graduating seniors. Each group is composed of some ten students and four faculty members.

Purposes of the program are several: to introduce students and faculty to each other; to acquaint the students with the history, activities, and goals of the Department; and to inform the students of the many employment opportunities open to them through their secondary field. All groups were urged to join and participate in the Illinois Society of General Engineers, seniors to enroll in the constituent alumni association. In addition, the seniors are encouraged to comment both favorably and unfavorably on their reactions to the curriculum. Everyone is urged to carry the story of General Engineering back to the counselors at his high school. Through this faculty-student activity a stronger and warmer esprit de corps is already developing.

ILLINOIS SOCIETY OF GENERAL ENGINEERS

The Society is again offering monthly programs to acquaint students with opportunities in a wide spectrum of industries. Other activities include: summer job placement, freshman orientation, high school and junior college visitations, industry tours and field trips, and projects to finance these activities. Several Society members have also volunteered individually to tutor students attending the University under the Special Educational Opportunity Program.

Interested alumni can support the Society by (1) providing leads to more summer employment, and (2) offering to speak on topics of interest at meetings. Please address offers to: MONTE L. PHILLIPS, ISGE Faculty Adviser, 217 Transportation Building, University of Illinois, Urbana.

G.E.'s IN I.S.P.E.

General Engineering students are active in administration of the University of Illinois student chapter of the Illinois Society of Professional Engineers. The president for 1968-69 is EARL S. (Sandy) MOLDOVAN, '69. DAVID E. WHITE, '69, is liaison chairman for all contacts between the local student chapter and the Champaign County Chapter of I.S.P.E. One of the society's two representatives to Engineering Council is HERBERT W. LINNE, '69. Faculty adviser for the local chapter is Prof. ROBERT A. JEWETT.

VIDEO-TAPE INSTRUCTIONAL-IMPROVEMENT PROJECT

Continuing a study initiated two years ago to explore ways of improving instruction through the use of video-tape recordings and microteaching techniques, the Department is in the process of video-taping staff members and orienting new instructors to assist both groups in perfecting their teaching skills. D. C. O'BRYANT and W. D. MARTIN are co-chairmen of this project.

Taping and replaying of student presentations in 291 Seminar are proving valuable by affording speakers opportunities to view their own demonstrations, to spot their weaknesses, to evaluate other students' work, and to be evaluated themselves. Hopefully these exposures will result in better talks and a higher level of confidence in speaking and thinking.

W. H. MILLER is exploring the feasibility of making video-taped class lectures available to students. Absentees or others having difficulties in specific areas would view the lecture at his own convenience. Solutions to many student problems could quite possibly be solved by this process with a minimum of instructor involvement.

Much interest has been generated among the staff and students as the Department explores the possibilities inherent in this new approach to learning and presentation of ideas.

EDUCATIONAL OPPORTUNITY PROGRAM

This fall a new, university-wide Special Educational Opportunity Program has been started, known officially as SEOP but locally as the 500 Program, and designed to encourage young people to obtain a college education. Five hundred new freshmen from varied ethnic groups were accepted.

Many of those in the program have been given limited grants from the federal government, aid from private funds, and 100 of them have received tuition and fee waivers from the University. In addition, a number of participants work to contribute toward their support while they study and a large majority plan to provide for a portion of their educational expenses through the use of loan funds.

Thirty SEOP students hope to be engineers, five of them general engineers. Fourteen are now enrolled in G.E. 103, Engineering Graphics, under Mr. CARL A. EDSTROM and his assistants, GE seniors JOHN ROGERS and PAUL LITHERLAND. In an effort to assure success in the course, student members of ISGE have also volunteered as tutors, to the extent that potential teachers outnumber scholars. Other departments, such as mathematics and chemistry, are also making every effort to insure that the young people in this program succeed in their efforts for a college education.

JOHN SCHLAFER AWARDED Ph.D.

A June Ph.D. degree in Engineering Mechanics with a minor in Mathematics and Mechanical Engineering was awarded to JOHN L. SCHLAFER for his thesis on "Mathematical Theory of Plasticity." John was a G.E. Instructor last year. At present he is a Research Engineer in Stress Analysis at Whirlpool Research Center, Saint Joseph, Mich.

JUNIOR ENGINEERING TECHNICAL SOCIETY

New Director

Mr. DAVID C. O'BRYANT, Instructor, has been appointed Director of the JETS program for the State of Illinois to replace ROBERT W. DALRYMPLE, who has accepted a position in Colorado. Dave has also been named ECPD (Engineers' Council for Professional Development) Guidance Coordinator for the state.

National Engineering Aptitude Search

Featuring a series of tests for high school students in grades 9-12, a national search for engineering aptitude in pre-college students is conducted by JETS each year. The objective is to help students determine their qualifications for college-level engineering study. Program values have been recognized with a place on the Approved List of National Contests and Activities as prepared by the National Association of Secondary-School Principals. If alumni sons or daughters or their friends are interested in engineering as a possible career, they are invited to write or call JETS Headquarters, 214 Transportation Building, University of Illinois, Urbana for further information and test dates.

High School JETS Clubs

Director O'Bryant urges and challenges alumni to help set up JETS chapters in local high schools, to act as advisers, and generally to become involved with science-minded youth. If this type of extracurricular activity appeals, he offers further information and suggestions.

FACULTY DINNER FEATURES PACEMAKER

The Gen. Eng'r. annual faculty dinner meeting, featuring KEITH CORMIA, General Electric Co. of Milwaukee, provoked lively discussion of the cardiac pacemaker and its applications. Topics included methods of installation inside or outside the heart, reliability, and visual displays of manufacture. Also covered were external battery-powered units for emergency heart stimulation, control analyzers, and patient-monitoring systems for hospitals.

ALUMNI NOTES

DONALD J. AKERS, '63, holds the position of Sales Engineer with General Electric, Chicago.

RICHARD L. BACHTA, '67, is undergoing flight training in Meridian, Mississippi, as an Ensign in the Navy. He plans to marry DIANE KRAUSS, a former U. of I. student, in the near future.

WILLIAM R. BIERBAUM, '50, was recently appointed Director of Auxiliaries and Services of New Mexico University after completing ten years as Director of that University's Union. He feels the broad GE course coverage is now being called upon more than ever.

NORMAN G. BITTERMANN, '40, M.S. '42, is serving as a manpower resources deputy for the Secretary of the Air Force at the Pentagon. His wife, ANNETTE, '41, M.S. '63, George Washington University, spent the summer in France on NDEA scholarship in the University of Oregon's Language Institute Tours.

CHARLES C. BLOOM, '34, has recently moved to Warren, Pa. with his wife and two children. He is employed as an evaluations engineer with the Struthers Wells Corporation. He contends Warren holds a record for maximum cloudy days.

HAROLD C. BRISSENDER, '30, has retired from Commonwealth Edison Company, Chicago, and is making his home in Rolling Meadows, Illinois.

JAMES E. BURGESS, '63, is a heating and air conditioning market specialist with General Electric of Ft. Wayne, Indiana.

VIRGIL J. COX, '25, has been working part-time for the Sanitary District of Muncie, Ind., since his retirement from Ball Brothers Company in 1961. Virgil's word to retirees is "Get interested in civic work and KEEP BUSY."

DALE CURTIS, EE '47, University of Wisconsin, is currently serving as Industrial Sales Supervisor for Central Illinois Public Service Company in Mattoon, Illinois.

MICHAEL D. DINITZ, '67, is attending evening classes at Northwestern Graduate School of Business Administration for an MBA in Marketing. He is employed by Honeywell in Morton Grove as a quality control engineer. Michael married ISABEL SAWYER last May.

ARTHUR G. DIXON, '24, is Board Vice Chairman of the Modine Manufacturing Co. in Racine, Wisc. In 1921, Arthur welcomed the new general engineering curriculum by being one of the first enrolled. He states that the breadth of exposure it provided has served him well. Arthur reports that he is essentially retired.

DENNIS J. DULIN, '61, is in construction work and holds the position of Vice President of Paul Jacobson and Company. Dennis believes that a GE background is the best training for any business. He is the father of three daughters and one son and resides in DeKalb, Illinois.

OLGA M. ERCEGOVAC, '59, has become Mrs. TOM MOSILLO, '60 M.E. Olga is a planning engineer with Western Electric Company, Chicago.

GARY B. FARISS, '68, Customer Engineer with Control Data Corporation, Minneapolis, reports his marriage to MARCIA KLAIN, '64, Speech Correction, M.A. '65, Audiology.

JOSEPH H. FIELD, '33, has been promoted to Vice President and General Manager of Production and Exploration Division, Sohio Petroleum Co. He lives in Oklahoma City, Oklahoma.

JAMES E. FREED, '67, is with Sunstrand Aviation in Rockford, Illinois as a research engineer. Jim was a Graduate Assistant in the G.E. Department during the Spring of 1967.

GEORGE P. FRIEDRICHS, '68, is a technical writer with the Fisher Governor Company of Marshalltown, Iowa. George was married to ALICE LUNDGREN, '67, Education, in June.

KENNETH A. GABLIN, '56, Associate Director of Mechanics Research, a computer-oriented structural consulting business, reports the firm is managed by another G.E., BOB ANDERSON, '53. Ken resides in Tacoma, Washington.

ROBERT H. GIBSON, '61, M.S. '68, Industrial Engineering, Texas A & M University. As a USAF Captain, Bob has been assigned to the 1876th Communications Squadron, Ton San Nhut Air Base, South Vietnam. He has three boys and one girl.

ROBERT A. GILES, Jr., '66, MBA '68, is a manufacturing control specialist with General Dynamics in San Diego, California.

JOHN R. GREEN, Jr., '60, MBA '62, Wayne State University, S.M. '66, Industrial Management, MIT, holds the position of Plant Manager of Chrysler Corporation's Indianapolis Foundry.

PETER F. HAYS, '65, is a research scientist with Owens Corning Fiberglass Company, Granville, Ohio. Peter reports a daughter born in January.

CHARLES F. HEDBLUM, Jr., '64, Engineering Specialist with Microdot, Inc., South Pasadena, California, is in charge of lighting systems development for the Apollo, Saturn, and MOL programs. He was married last May.

A L U M N I N O T E S

JAMES M. KOEPKE, '65, MBA '67, is an Ensign in the Coast Guard and working in data processing. James and MARILYN reside in Alexandria, Va.

SHELBY D. LAWDER, '65, a pilot with the Tactical Air Command, is stationed at Luke Air Force Base, Arizona. Shelby was married last June.

HENRY MARCHESCHI, '53, holds the position of President of the American Telecommunications Corporation in Los Angeles, California.

LAURANCE O. MILLARD, '25, formerly a consultant for Exportadora DeSal, Cedros Island, Baja, Mexico, is now retired and living in Scottsdale, Arizona. Laurance is listed in "World Who's Who in Industry and Commerce."

JON PEACY, '58, M.S. '67, is Chief Engineer of the Air and Water Pollution Section, Commercial Testing and Engineering Company, Chicago.

DENNIS A. RATHJE, '66, MBA '68, is a plant engineer with Sherwin-Williams Paints, Deshler, Ohio. Dennis is married and has one son.

JOHN A. REDIN, '65, reports he will begin study for the ministry this fall at the Baptist Bible College, Springfield, Missouri.

CHARLES W. ROWLEY, '65, M.S. '67, a US Navy Lieutenant, has finished nuclear power and prototype training and is now attending submarine school. He expects a submarine assignment this fall. Charles resides with his wife and two children in Norwich, Connecticut.

JAMES R. SACHTSCHALE, '64, M.S. '66, is a research engineer with Chevron Research Company, Richmond, Calif. A daughter was born in June.

ROBERT E. SEYLER, '64, MBA '68, University of Michigan, holds the position of Plant Engineer with the Chrysler Corporation in Detroit.

HERBERT SINGER, '63, J.D. '66, Loyola Univ. Law School, reports he is a patent attorney with Silverman and Cass. His practice is limited to patent, trademark, copyright, and related causes of action. Herbert and ROCHELLE, '65, Education, live in Oak Lawn, Illinois.

HAROLD J. SLAIGHT, '53, MBA '68, Creighton University, is a senior engineer with Western Electric Company of Omaha, Nebraska.

JACK E. STEELE, '46, BM MD '49, Northwestern University, a Lt. Colonel in the Air Force, is stationed at Wright-Patterson AFB, Ohio. Jack found general engineering a bit narrow and has changed his field of interest to bionics.

GEORGE P. TAYLOR, '49, holds the position of Special Program Manager of Bausch and Lomb in Rochester, New York.

ELDEN LEON VOLLING, '64, is General Manager of the O'Brien Corp. of St. Louis. He has started a company manufacturing process instrument accessories. Leon, his wife, and two sons live in East Alton, Illinois.

JOHN R. WEIBEL, '66, is stationed in Alaska as a USAF Lieutenant. John's wife and son are making their home in Wheaton, Illinois.

HERBERT R. WICKENDEN, '47, is employed as a marketing administrator with the Goodyear Tire and Rubber Company of Akron, Ohio.

WALTER WILLIAM ZIEL, '66, MBA '68, works for Industrial Nucleonics Corp., Columbus, Ohio. He was a Graduate Assistant in this Department for two years while working toward his degree.

ROBERT G. ZILLY, '42, Associate Professor, University of Nebraska is doing research as well as teaching construction science.

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EDITORIAL

This current issue records the continuing progress and widening scope of Department and faculty activities and contributions bringing the University closer to industry and to engineering for people. We find ourselves filling two eight-page issues per year, with more material available. We would, therefore, like your ideas as to what is of greatest interest to you, what items can be played down from your point of view, and how we can help you most. Comments, activities, faculty notes and personal items should be addressed to: Newsletter, Department of General Engineering, University of Illinois, Urbana 61801.

Thanks and a Happy Holiday Season!