

NEWSLETTER



DEPARTMENT OF GENERAL ENGINEERING

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SENIORS WIN FELLOWSHIPS

GERALD LASSON, genial President of Gamma Epsilon, the GE scholastic society, has been selected as an AEC fellow and plans to study Nuclear Engineering here at Illinois. This fellowship may be renewed for two additional academic years.

A fellowship for study in the MBA program at Stanford University has been offered to WILLIAM T. FRASER.

GAMMA EPSILON

Seven new members were recently selected by Gamma Epsilon, General Engineering Scholastic Honorary. Total membership is now 29, a goodly number considering that the Society was established just three years ago.

March initiates were: TERRY BRADLEY, sophomore from Kewanee; JACK D. BROWN, senior from Rock Island; JAMES E. FREED, junior from Rockford; CARL E. JASKE, junior from Bloomington; STEVE S. JONAS, senior from Winnetka; ROLAND B. WILSON, senior from Marion; and MICHAEL K. WYFFELS, junior from Geneseo.

Following the initiation and dinner, Mr. James D. Meyers of the Champaign office of Internal Revenue Service spoke on 1964 tax law changes.

HEDBLOOM, ZAKES GIVEN AWARDS AS OUTSTANDING STUDENTS

Winners of the 1964 \$100 awards for excellence as seniors were CHARLES F. HEDBLOOM, JR., as top-ranking scholar and ROBERT A. ZAKES for achievement in extracurricular activities and leader-

ship. CHUCK HEDBLOOM won the second E.S. Fraser prize, which is based 70% on scholarship and 30% on activities. He had a grade point average of 4.47 and held membership in ISPE, ISGE, Tau Beta Pi, Sigma Tau, and Gamma Epsilon.

BOB ZAKES received the initial Marcus-Phillips recognition, after its establishment last spring, for an amazing breadth of extracurricular activity. The vote of his own classmates as well as faculty endorsement was used in making the selection. With a 3.9 average, he made contributions in some 20 organizations and leadership areas. These included manager's rank on the varsity fencing team in epee for three years, captaincy of the water polo team, work as a Sunday School teacher, as captain and company commander in Army ROTC, University employment with the testing bureau, and summer employment with the Corps of Engineers. He was a member of Athletic Council, Tribe of Illini, Delta Phi social fraternity, Society of Military Engineers, NSPE, ISPE, and Wa-Na-See Activity honorary.

In addition to their awards, both graduates were given small desk plaques, and have their names engraved on appropriate permanent wall displays in the Transportation Building. HEDBLOOM is currently employed by the Western Electric Co., Chicago; ZAKES is taking graduate work at the UI and is serving as a Teaching Assistant in the GE Department.

FRASER GETS BRONZE CROSS

A GE senior receiving unusual University honors is WILLIAM T. FRASER, who at a formal ROTC parade was presented the Legion of Valor's Bronze Cross for

achieving the outstanding cadet record of the XI Corps area. BILL is ROTC cadet Major, has a 4.9 scholastic average, is on the Dean's List in Engineering, and has been voted a "Distinguished Military Student" by the ROTC.

ALUMNI RESPONSE DELIGHTFUL!

Response to post-card canvas of Alumni, through the Fall NEWSLETTER, was excellent. Several hundred replies have been received with a few more trickling in each day. Did you mail yours? We would like to hear from all of you. Particularly interesting were the numbers who have entered teaching and other professions ranging from medicine to the ministry.

TEACHING AND OTHER PROFESSIONS

CORLESS D. ANDERSON, '26, is a Professor of Finance, School of Business, Northwestern University. His comment, "Have 'strayed' a long way since 1926!"

Professor, Chairman of Engineering Mechanics Department, and coordinator of Biomechanics Research Center at Wayne State University, Detroit, is HERBERT R. LISSNER, '30.

We see frequently HERBERT O. IRELAND, '41, Professor of Civil Engineering here at Illinois. We see, even more frequently, JERRY S. DOBROVOLNY, '43, Professor and Head of our Department of General Engineering.

Lt. Col. JACK STEELE, '46, is flight surgeon and project engineer for the U.S. Air Force. He lists his location as "world-wide" and character of firm as "good." Presently he is engaged in research on "Bionics." He practiced medicine for awhile and asks "Are many General Engineering Alumni physicians?" He is the only one we have heard from. Any others?

Practicing law is JOHN T. HARMON, '48, partner in Wolcom and Harmon, San Francisco.

DONALD H. RIMBEY, '50, is another Alumnus we see frequently. Presently he is an instructor in the GE Department doing both teaching and research.

At the University of Missouri, teaching, research, and Headship of the Engineering Computing Department keeps JAMES W. BALDWIN, JR., '51, busy. He is an Associate Professor of Civil Engineering.

1951 classmate JOHN D. SOMMER comments, "General Engineering is an excellent foundation for study in philosophy of science and art." He is an Instructor in the Department of Philosophy at Miami University, Oxford, Ohio.

In the East, RICHARD H. LANCE, '54, is an Assistant Professor of Mechanics at Cornell, active in both teaching and research.

WAYNE E. LEIGHTY, '56, reports that he is in his second year of study at Colgate Rochester Divinity School and is Methodist minister at Churchville, New York. Also from the class of '56, NORMAN H. RACINE has moved to the legal field as partner in Racine and Racine, Sycamore, Illinois.

Instructor of Engineering Mechanics at Wisconsin, RALPH I. STEPHENS, '57, expects to leave in September with his Ph.D. degree. His comment section included, "Saw BOB MERRILL, '57, on his way back to Algeria with C.A.R.E."

Also at Wisconsin is ROBERT D. COOK, '58, Assistant Professor of Engineering Mechanics, teaching and doing research. Graduating in 1958 also, LEON W. FLORSCHUETZ has become Assistant Professor in Mechanical Engineering, Arizona State University, Tempe. He reports two sons now -- one two years, and one six months.

GENERAL ALUMNI NEWS

From the class of '22, CHESTER N. CLARK lives in Pittsburgh, retired since 1962 as Planning Engineer for the Duquesne Light Company.

EDWIN O. ROTHE, '25, sent an interesting letter about his 19 years in the U.S.

Bureau of Reclamation and present work as a tool room machinist for St. Louis Car Division of General Steel Industries.

ARTHUR F. ZITZEWITZ, '26, President, sent a number of brochures describing products of his Mid-Continent Metal Products Company of Chicago.

After four years in Germany as Captain, Corps of Engineers, JERRY HOGAN, '59, stopped by to see JERRY DOBROVOLNY during the late summer. HOGAN is now detailed to Fort Monmouth, New Jersey, attending a seven-month specialized school.

SENIOR PROJECT DESIGN, GE 242

Seniors this semester are working on diverse and interesting problems. LEON O. LINDLEY and RONALD W. MYTTY are designing a simple and inexpensive device which converts the standard dial telephone to push-button or slide operation. They expect to use a pulse generator, which will work with existing equipment in any local central office.

Design of a water supply and distribution system for a small housing development is the project of DENNIS E. LAFFERTY and ROBERT A. STANTON. The development was originally planned by Frank Lloyd Wright for about 250 inhabitants in Connecticut. Cost is an especially important consideration because of the moderate incomes projected for proposed inhabitants.

CHARLES W. ROWLEY started out to design a nuclear reactor but found it to be such a large undertaking that he is limiting himself to the reactor shielding. He will take into consideration the allowable radiation levels outside the shield and the location, energy, and intensity of the radiation sources in choosing his scheme. Design criteria for thicknesses will include materials, cost, weight, space, access, observation, and maintenance.

Cryogenic fluids are hauled and stored in large cylindrical tanks. Emptying is a problem because of changes in pressure and temperature as well as the vacuum and frost which develop inside the tank. WILLIAM T. FRASER is designing a heat

exchanger to overcome these difficulties. The problem is primarily one of mathematical analysis and is full of differential equations. BILL hopes he can program the problem for computer design of such tanks.

CARL N. ROEGNER is working on a mechanical device to pre-scan betatron photographs, tracing paths of ionized particles in physics research. CARL expects to select, sort, and catalogue the films showing unusual paths for inclusion in later computer studies.

Another problem is the design of an apartment building to insure most efficient and economical land use. WALTER W. ZIEL and RONALD J. KESSNER hope to determine correlations between design parameters and costs of constructing, and to plan in detail a typical high-liveability apartment unit for the building.

MYRON G. ODELL, LAWRENCE RZEWSKI and GERALD SCHOONHOVEN have a project in recreation facilities - design of a 40-sailboat harbor. Auxiliary facilities include slips or ways for getting boats in and out of the water, a crane for unstepping masts and removing ballast, and a loft in which masts and spars can be stored in the winter, a sail storage, and parking spaces for hulls on shore.

In Indiana a small, privately owned, machine shop grosses a million dollars a year. DAVID A. BURGE, RAY J. DEPAUW, and GERALD A. LASSON are charged with the design and layout for modernizing the plant. They will specify new machines to be purchased, arrange them to speed up production, and increase efficiency.

A particularly interesting project is that of H. CHARLES BUCHANAN. He is working out the mechanical design for a compact, easily transportable, high-frequency antenna with tunable elements. Instead of using linear elements, this antenna is to use helical dipoles tuned by moving in and out of fixed sleeves. The best design for this movement is a major part of the problem.

These students are working under Professors LARSON, BERKOW, SCHECK, and SCHEINMAN.

GE DESIGN SEMINAR

Sponsored by the Department of General Engineering, Dr. Morris Asimow gave a special seminar on "Engineering Design -- A New Approach" on April 15. As Time magazine put it "Morris Asimow is a U.C.L.A. engineering professor who has an unusual and valuable talent. He likes to build factories from scratch, preferably in distant and inaccessible places. That talent is particularly useful in Latin America . . . Asimow has proved to be in a class by himself as a one-man aid program."

ENGINEERING OPEN HOUSE - 1965

Close to 4000 persons visited General Engineering displays at Engineering Open House on March 12 and 13. The theme of the exhibit was the GE curriculum and content of selected courses. Required courses, technical electives, and courses available in secondary fields of concentration were listed. Included this year for the first time was content of the new G.E. design sequence. Typical problems and quizzes were used to illustrate the early courses. Student-selected problems from the terminal design course, G.E. 242, were featured with their solutions, explained by photographs, models, and notebooks..

Mr. DAVID O'BRYANT, Instructor in G.E., continued as a very competent Chairman of the College Open House committee for the second year. Professor ROBERT BOKENKAMP was Chairman of the departmental Open House Committee.

KAY LESTER, G.E. '66, was a finalist candidate for Queen of St. Pat, nominated by the Society of Women Engineers. Highest honors of all: KENNETH ARCHAMBAULT, student president of ISGE, and Professor ROBERT JEWETT, faculty adviser to the student chapter of ISPE, were recognized as Knights of St. Patrick at the Annual Engineer's Ball.

FACULTY ON THE MOVE

A big percentage of our faculty have attended professional meetings and conferences, giving papers, participating

in committee work and serving as consultants. Through the American Standards Association, Professors R. P. HOELSCHER and C. H. SPRINGER, both now retired, were for many years leaders in standardization of engineering graphics. This tradition is being continued by FRED L. SPALDING and BOB BOKENKAMP, both of whom have made several trips to New York City this winter.

Distance man of the department is BERT LARSON who was Chairman of a BUILD committee meeting in Boulder, Colorado, for a conference on the freshman curriculum. Later he visited the Philippines, Hong Kong, and Japan with several others from the University in connection with the United States government AID program.

JERRY DOBROVOLNY, '43, has made a number of trips to Springfield, Illinois, Chicago, New York, and Washington, D. C., making contributions to the developing Technical Education area as well as General Engineering education and Engineering Graphics. He was accompanied by WAYNE SHICK, DAVID O'BRYANT, and BOB BORRI as well as by Emeriti Professors HOELSCHER and SPRINGER to the Mid-Winter meeting of the Engineering Graphics Division of the ASEE. JERRY, RONALD PLACEK, and DON SCHECK also attended a BUILD Conference on EDEE Curriculum at Boulder, Colorado.

EDWARD D. EBERT was promoted last summer from Associate Professor to Professor. ED continues to handle all G.E. students' registration and advising, and is teaching courses in the design sequence. At the same time ROBERT W. BOKENKAMP was promoted to Assistant Professor of General Engineering. BOB who already had an M.S. in Industrial Education was granted a Bachelor of Architecture degree last year.

GRACE WILSON, G.E. 107 and 108, continues as faculty adviser to the student section of the Society of Women Engineers. At one of their meetings held at GRACE's home, PAULINE CHAPMAN, the Engineering College Director of Placement, addressed the SWE coeds.

A paper on the application of linear programming to mine production scheduling was presented in February by DON SCHECK to the convention of the AIME.