GENERAL ENGINEERING NEWSLETTER

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

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RICHARD L. HOARD

ALUMNUS HONORED

In recognition of his service to the profession, the department, and his community, General Engineering graduate RICHARD L. HOARD '59 was presented the Sixth Annual Distinguished Alumni Award by Gamma Epsilon at the Annual Awards Banquet last spring.

Upon graduation, Mr. Hoard joined A.T. & T., Long Lines Department as a management trainee. During his employment with A.T. & T. he served in various positions in the plant operations and sales departments. After six years Mr. Hoard moved to Waldie and Briggs. He worked there for two years as Vice President – Market Research.

Since joining Trans Union Corporation in 1967 he has progressed from the position of Manager of Market Research and Planning for Union Tank Car Division through Assistant to the President of Ecodyne Corporation, Vice President – Marketing for Smith and Loveless Division of Ecodyne, and President of the Graver Water Division to Vice President of Ecodyne Corporation and President of the Water and Waste Treatment Group. In this position Mr. Hoard has five subsidiaries and seven divisions under his supervision.

Ecodyne is a wholly owned subsidiary of Trans Union Corporation. That part of Ecodyne known as the Water and Waste Treatment Group is composed of three profit centers. Each center is involved in the design and supply of different types of custom designed process equipment to treat industrial, utility and municipal water and wastewater.

Besides having a B.S. in General Engineering from the University of Illinois, Mr. Hoard has a master's degree in Business Administration from the University of Chicago. In addition to his professional activities, he has served as a member of the District #163 School Board, Park Forest, Illinois, and has been active in his church as an organizer and teacher in Christian Education for both adults and children. Mr. Hoard was a founding member of the board and is presently chairman of the Environmental Industry Council, headquartered in Washington, D. C. The council is a non-profit industry association respresenting corporations involved in supplying equipment and material to all areas of environmental protection.

ANNUAL AWARDS BANQUET

The Department of General Engineering and Gamma Epsilon honorary sponsored the Annual Awards Banquet at Jumer's Castle Lodge Restaurant on April 19, 1979. MICHAEL R. HUBER, vice president of Gamma Epsilon, presided as master of ceremonies.

The spring group of Gamma Epsilon initiates received their certificates of membership from Professor Streeter, faculty advisor for the honorary. Included in the group were: ROBERT J. AARON '81 from Skokie; BRIAN G. EBERLE '80 of Park Ridge; MICHAEL R. GABRIELLI '80, Springfield, Virginia; MARGARET E. GIBSON '81, Rock Island; JAYNE A. GLEMZA '81 of St. Charles; JOHN M. OLSZEWSKI '81 from Chicago; MARK R. PAVLAT '81 from Galesburg; STEVEN R. REYNOLDS '80 also from Galesburg; ERNEST E. SENN '81 of Hanover park; RICHARD P. SCHNELL '80, Berkeley Heights, New Jersey; MICHAEL C. STITT '81 of Danville; PAUL R. STOEFFELS '81 from Glen Ellyn; TEVIN R. THOMPSON '81, Morton Grove; and TIMOTHY E. TUCKER '81 from Blue Mound. These students received this honor in recognition of their academic success.

Professor HOWARD W. KNOEBEL was named honorary member of Gamma Epsilon for 1979. SUE ELLEN KLECKNER, president of the society, presented the certificate of membership to him.

Professor L. Dan Metz announced the design team of DAVID H. COYLE, JOHN A. NOTARDONATO, STEVEN D. RAK, and GARY R. STEERE as winner of the Bernt O. Larson Award for the project, "A Two-Way Weld Positioner." Chicago Bridge and Iron Company sponsored it with Professors Hugelman and Ramamurthy serving as advisors. This project also received the Second Place Undergraduate Award of the Structural Division of the James F. Lincoln Arc Welding Foundation Student Engineering Design Competition.

Professor Knoebel presented the Herbert J. Sprengel Award to the design team of GREGORY C. GIVLER '80 of Woodridge, ROBERT S. GORDON '80 from Chicago, JOHN M. OLSZEWSKI '81, Chicago, and JOHN R. REGAN '81 from Park Forest for their development of the project "A Simplified Hand-Held Kitchen Faucet" with Professor Hipskind as consultant. This award of $60 is made to that team in a freshman General Engineering

course that develops the best design and submits the best report during the past calendar year. The project is judged on the basis of problem identification and design specifications, technical analysis and solution development, and graphic and verbal communications.

BARBARA L. EDSTROM '79, Springfield, received the Edward S. Fraser Award from Professor Martin. This award, conferred in recognition of high scholarship and participation in university activities, consists of $100 and the placing of the recipient's name on a bronze tablet located in the Transportation Building. Barbara also received the Lisle Abbott Rose Memorial Award, a College of Engineering award, and was named to the Bronze Tablet, an all-university honor.

Professor Ebert presented the L. B. Phillips Award to PHILIP M. ANDERSON '79 of Western Springs, an outstanding senior in General Engineering, in recognition of his scholarship, character, and activities. Philip received a check for $100 and an inscribed plaque and his name was placed on a bronze plaque in the Transportation Building.

JOHN T. LINDERMAN '80 from Danville, winner of the Randolph P. Hoelscher Award, received it from Professor Pleck. This award, consisting of a certificate and $75, is presented each spring to the outstanding junior in General Engineering as recognition of scholarship, leadership promise, activities, including Illinois Society of General Engineers, and cultural development. In addition, the name of the winner is placed on a bronze plaque located in the Transportation Building.

SILVANA A. MEDINA '80 from Joliet and ROBERT L. SCHULTZ, Jr., '80 of Chicago were presented their Ingersoll-Rand Awards by Professor Dobrovolny. These awards of $500 each, established by the Ingersoll-Rand Company, are given to two outstanding juniors in General Engineering on the basis of academic achievement, leadership qualities, professional promise, and career interest.

Professor Ebert introduced PATRICK J. ANDERSON '79, Oak Lawn, recipient of the General Engineering department's scholarship for 1978–1979.

As climax of the evening, Sue Ellen Kleckner presented the Sixth Annual Gamma Epsilon Distinguished Alumni Award to RICHARD L. HOARD. '59. Mr. Hoard is President, Water and Waste Treatment Group, subsidiary of Ecodyne Corporation which is part of the Trans Union Corporation.

ANNUAL FUND CAMPAIGN

The 1979 College of Engineering Annual Fund campaign is progressing satisfactorily. Contributions received from you are most welcome. About one percent of those of you who received the first solicitation responded by August 1 with gifts totaling $290.

You ask, "Why have this drive for funds?" As you know, the University of Illinois is in a period of austerity. In recent years the legislature has provided only limited financial support for the university. This fund will be used to:

1. Replace worn out laboratory apparatus with modern equipment for student experiments.
2. Support more college-wide and departmental awards for faculty, teaching assistants, and students to recognize and encourage their academic performance.
3. Improve and expand special programs to inform young people of career opportunities in engineering and prepare them for college-level study in math and science.
4. Support the wide range of undergraduate student activities sponsored by such organizations as Engineering Council, Tau Beta Pi, Engineering Open House, and the professional and honorary societies in every department.
5. Provide the dean with a discretionary fund which allows him to respond to unique opportunities or unusual circumstances not covered by funds budgeted to the College.

When you send your contribution, make your check payable to the U. of I. Foundation/UIUC Engineering Annual Fund to be sure that it will be tax deductible. If you wish your gift to go to the General Engineering Development Fund, so specify in your letter of transmittal.

To encourage your generosity ALAN M. HALLENE, BSME '51, has established the Challenge for Excellence, a pledge of $25,000, whereby any individual gift to the Annual Fund of $100 or more, up to $500, is matched dollar for dollar. For gifts over $500, the first $500 will be matched. Two of the gifts sent in by you alumni meet the requirement of the Challenge so actually you have given $490 to the General Engineering Development Fund.

Your individual gift can also be multiplied by participation in a firm's Matching Gift Program. Many firms will match an employee's contribution on a one-for-one basis if the employee submits the Matching Gift Form with the contribution. If the total of your gift and the matching gift from your employer meet the criteria for the Challenge for Excellence, that total will be matched from the Challenge fund.

Your personal participation is invited and CAN make the difference.

MASTER'S DEGREE PROGRAM

The Master of Science degree program in General Engineering is underway this fall with four pioneering students. DUANE F. CAMPBELL is interested in the area of control theory. GREGORY S. GERARD plans to concentrate on the study of solar energy and energy-related fields. BRADLEY D. MOTTIER expects to investigate a fluidically operated indicator of the wing angle of attack for airplanes, a device which is useful to the pilot in controlling the plane. STEVEN J. STUBITZ is devoting his energies to management and operations research.

This program consists of a basic group of courses in the project design area with the freedom to select electives from a wide range of related areas adapted to meet the career goals of the individual student. Thus, an unusual flexibility is available to the student in choosing courses to meet these goals. Each student must complete 8 or 9 units of course work, depending upon the type of research or project design work taken. A student must take 1 unit of thesis research (G.E. 499), or at least 2 units in Project Design (G.E. 497). Of the remaining 7 units, at least 3 must be at the 400 level.

Three basic courses from the group below are required:

G.E. 392	Legal Problems in Engineering Design	1 unit
G.E. 495	Evaluation and Management of Engineering Design Projects	1 unit

G.E. 497	Project Design	2 units
G.E. 499	Thesis Research	1 unit

Courses which are related to the above and may be taken as electives are:

G.E. 330	Industrial Standardization	1/2 unit
G.E. 334	Introduction to Reliability Engineering	1 unit
G.E. 491	Simulation of Dynamic Systems	1 unit
G.E. 493	Special Problems	1/4 to 1 unit

Additional elective courses may be chosen from such related areas as Control Theory, Structural Analysis, Computer-Aided Design, Bio-Engineering, Environmental Quality, Energy Utilization, Production Management, City Management, etc. Crowning point of the program is the industry sponsored project-design oriented thesis.

The program is open to all graduates of accredited engineering curricula who have a grade-point average of at least 4.0 on a 5.0 scale for the last two years of undergraduate study. Applicants should have taken undergraduate courses in differential equations, electrical circuit theory, control systems theory, machine or structural design, thermodynamics, and fluid mechanics. However, any deficiencies can be made up.

Financial support is available for qualified applicants in the form of half-time assistantships or research assistantships which provide $3,825 for the academic year. Fellowships granted by the Graduate College provide a stipend plus a tuition and fee waiver and may be combined with part-time assistantships. In addition, all teaching and research assistants receive a tuition and service fee waiver valued at $2,474 (for the academic year and summer session for non-resisdent students).

Further information and application forms may be obtained by writing to:

Professor Jerry S. Dobrovolny, P.E., Head
Department of General Engineering
117 Transportation Building
University of Illinois at Urbana-Champaign
Urbana, IL 61801

JETS-MITE SUMMER PROGRAMS

The 18th Junior Engineering Technical Society (JETS) summer program was held during July. The program hosted 56 participants including 21 females. The Bradley JETS program had 29 participants. Chicago Circle had their largest group ever consisting of 23 males and 18 females for a total of 41. Follow-up studies indicate that over 90% of the participants enroll in an engineering program when they enter college.

The Minority Introduction to Engineering (MITE) summer program was held in June and we had 17 male and 13 female participants on the Urbana campus. The U. of I. program was the model for the nation-wide MITE effort which this year totaled over 2000 participants on 39 different college campuses. These programs have been instrumental in increasing minority enrollments across the country.

ENROLLMENT IN G.E. CURRICULUM GROWS

In the past 21 years enrollment in the General Engineering curriculum has doubled, increasing from 278 in September, 1959, to 586 on September 6, 1979. This is the third time in the last four years that the number of students in the curriculum has reached at least 500. It attained that figure in 1976, dropped to 496 in 1977, increased to 533 in 1978, and increased still more to its present figure of 586.

Expressed in terms of percentage, students enrolled in the General Engineering curriculum made up 7.4 percent of the undergraduates in the College of Engineering in 1959. Although fluctuating up and down some, this percentage rose to a high of 12.3 in 1975, dropped to 10.6 in 1977, but now stands at about 11.2.

G.E. DEPARTMENT SCHOLARSHIP

JOSEPH ANTHONY JAEGER '81 of Deerfield has been named recipient of the G.E. Department Scholarship for 1979–80. This scholarship of $500 for one academic year is awarded on the basis of financial need and high scholarship to a General Engineering student above the level of freshman.

HEAVY G.E. 103 ENROLLMENT

By the first day of classes, August 27, 981 students were registered in 40 sections of G.E. 103. This is the largest number of students in that course for several years. Since money is still in short supply at the university, finding enough full time staff to teach that many sections has been difficult. The solution has been to employ 19 teaching assistants. Of these, four have taught the course before. Professors O'Bryant and Hartley continue to hold weekly briefing sessions for those who have not previously taught the material.

FACULTY NOTES

The Department of General Engineering lost four assistant professors over the summer. Drs. WILLIAM G. BEASLEY, WILLIAM W. CHOW, and SUBRAMANIAN RAMAMURTHY all moved on to "greener pastures" in industry. Dr. JAHANGIR RASTEGAR went home to Iran to visit his parents, expecting to return to his teaching in the department this fall. However, his government would not let him do so. Since Professor Dobrovolny was able to find a replacement for only one of these men, the design section is shorthanded this fall.

Dr. THOMAS F. CONRY has assumed the chairmanship of the ASME Design Engineering Division, which is the second largest technical division in the ASME with over 9000 members. He attended the recent Design Engineering Technical Conference in St. Louis, Missouri, where he presented two technical papers. One entitled "Unbalanced Response of a Large Rotor-Pedestal-Foundation System using an Elastic Half-Space Soil Model" was presented in collaboration with Dr. Roland L. Ruhl and Mr. Ronald L. Steger of Zurn Industries. The other paper, titled "Optimization of Die Profiles for Deep Drawing," was presented with Drs. Wayne J. Davis and Eugene L. Odell.

Dr. Conry recently attended the 6th Leeds-Lyon Symposium on Tribology in Lyon, France. There he presented a paper based on work he did while on sabbatical leave at the

University of Cambridge, Cambridge, United Kingdom. The paper was titled "Viscosity in the Thermal Regime of EHD Traction." Delegates to the conference were from the U.S.A., United Kingdom, France, Switzerland, Germany, and Japan.

During this past summer Dr. Conry worked as a Staff Consultant at Sargent & Lundy Engineers in Chicago. This was his second summer with them and provided him with a needed respite from the pressures of academia.

Dr. OSMAN COSKUNOGLU attended the TIMS/ORSA Joint National Meeting in New Orleans last spring. There he presented a paper titled "A Large Scale Optimization Procedure to a Problem in Water Resources Development."

The summer was a time of intense professional activity for Dr. WAYNE DAVIS. On June 1, 1979, at the request of the Governor's Office, Dr. Davis assumed the role of consultant for the State Emergency and Services and Disaster Agency (SESDA). His position involves responsibility for the design and overall coordination of the preparation of a state plan for handling possible incidents at a fixed nuclear facility, the plan to be called the Illinois Plan for Radiological Accidents (IPRA).

Initially two primary tasks were undertaken. First, recognizing that the State of Illinois does have plans to deal with all-risk crises, including flooding, blizzards, etc., the modifications essential to dealing with a nuclear incident had to be defined. To assist in this task, federal documents have been published stating criteria which IPRA must address. Second, the agencies involved in the planning effort had to be identified. At present, there are nine federal agencies, over 20 state agencies, more than 100 local agencies, and several private agencies, including the utilities, Red Cross, and Salvation Army, participating in the planning. The coordination of the efforts of these agencies is Dr. Davis' primary task. This responsibility has and will require considerable travel and numerous formal presentations to the agencies involved, as well as to legislative committees.

The actual design or format of the plan has been established by Dr. Davis, and he will contribute heavily in the writing of the first volume of the several volume plan. Present deadlines impose a December 31, 1979, date for the generation of the first draft of IPRA with concurrence in the plan by the Nuclear Regulatory Commission and other federal agencies by June 30, 1980.

This fall Dr. Davis returned to the Department of General Engineering but still retained his consultant role with SESDA. In short, the summer has been and this fall is a busy and interesting time for Dr. Davis.

Did you know we have a Forensic Engineering Expert in the department? This summer Dr. RODNEY D. HUGELMAN served as such for Lloyd's of London through a Chicago-based legal firm on a series of aircraft accidents. He spent part of the summer doing aircraft instrumentation and testing to determine the accident cause and its correction. The project was completed successfully but due to pending legal action Dr. Hugelman cannot release any details at this time.

Dr. DAVID C. O'BRYANT has been officially named Assistant Department Head. He will take over Professor Ebert's duties when he leaves the department next summer.

Dr. HARRISON STREETER has been named one of the three half-time revolving assistant deans in the College of Engineering for 1979–80. However, Dr. Streeter will continue to teach G.E. 392, Legal Problems in Engineering Design, and to advise Gamma Epsilon.

W. BRENT HALL

JAMES E. SOUK

NEW FACULTY

Dr. W. BRENT HALL is an Assistant Professor of General Engineering who joined the faculty in August, 1979.

Dr. Hall received his B.S. in Civil Engineering from the University of Waterloo, Canada, in 1975 under its industry and design-oriented cooperative program. Recipient of a National Research Council of Canada Postgraduate Scholarship and a University of Waterloo Dean's Scholarship, he continued at that school in a research-oriented graduate program, receiving his Ph.D. in structural engineering in 1979.

Areas of research in which Dr. Hall has worked include structural optimization, optimization of catalogues of standardized components, structural reliability and safety, model studies of bridges, and the behavior of cold formed steel members. His engineering experience has ranged from consulting in cold formed steel design problems and the structural analyses of roof systems to surveying and the design of open channels, water mains, sewers, and roadways.

Dr. Hall's current research projects include a reliability model for load testing of structures, optimization of bridge reconstruction schedules under budget constraints, optimization of light weight cross sections, and additional work on optimization of engineering demand-supply problems such as catalogues of structural members.

JAMES E. SOUK joined the faculty as Lecturer in General Engineering in August, 1979. Mr. Souk is a practicing attorney and is teaching General Engineering 292, Engineering and the Law.

Mr. Souk received his B.A. from West Virginia University in 1966, and his J.D. from the University of Illinois in 1974. He has been licensed to practice law in the State of Illinois since October, 1974. Mr. Souk is also admitted to practice law before the United States Federal District Courts in Northern and Central Illinois and before the United States Court of Appeals for the Seventh District.

Upon being admitted to practice law in Illinois, Mr. Souk served one year as law clerk for Chief Justice Robert Underwood of the Illinois Supreme Court. After completion of his clerkship, Mr. Souk was then employed by the law firm of Jenner and Block, Chicago, Illinois, engaged

primarily in civil litigation. In April, 1976, he joined the staff of the Champaign County State's Attorney's Office where he served for three years. His duties there included preparation and trial of all child abuse cases in Champaign County, and the preparation and trial of felony criminal matters. On June 1, 1979, Mr. Souk entered a partnership for the practice of law in Urbana.

MARVIN C. STIPPES

MARVIN C. STIPPES

MARVIN C. STIPPES '43, Professor of General Engineering and Theoretical and Applied Mechanics, died April 20. He first joined the faculty in 1949.

After receiving a degree in education from the University of Illinois, Professor Stippes earned a master's degree in mathematics from the University of Washington in 1946 and a doctorate in applied mechanics from Virginia Polytechnic Institute in 1957.

He taught at several other universities before returning to the University of Illinois. Professor Stippes had held a full professorship since 1959. When Professor Jewett left the Department of General Engineering in 1977, Professor Stippes took over his classes in G.E. 220, History of Engineering.

Professor Stippes was internationally known for his research contributions to the theory of elasticity. In 1971 he founded the Journal of Elasticity which is now a leading journal for original results in both linear and non-linear elasticity. He also was the author or coauthor of over 40 articles and books. More than 30 students did their doctoral dissertations under his supervision. He was an outstanding teacher.

Surviving Professor Stippes are his widow, the former Patricia Kovatovich, and a son, Geoffrey, D.D.S., of Seattle.

G.E.'S DO IT AGAIN

For the tenth time, starting in 1968, students in the General Engineering design courses received awards in the year's Student Engineering Design Competition of the James F. Lincoln Arc Welding Foundation. The students were granted three of them this year, all in the design category, making a total of thirteen such awards received by G.E. students in eleven years.

The team of RONALD M. MONSEN, JULIUS F. NEMETH, and DAVID R. SCRUBY received a Second Award for their project, "Design of Roof Plate Laying Vehicle for Fuel Storage Tanks." Professor Morris Scheinman served as consultant on this project which was sponsored by Chicago Bridge and Iron Company.

A Third Award was granted to the project, "Design Synthesis of a Portable Roofing Hoist," by the team of DAWN L. CANNELL, THOMAS D. FUTTER, MICHAEL R. HUBER, and ROSEMARIE F. OREHEK. Kemco Engineering Corporation of Freeport was the sponsor and Professors Subramanian Ramamurthy and Roland L. Ruhl were the consultants on the project.

The design for a "Fluidically Controlled Industrial Robot" by DUANE F. CAMPBELL, JAMES R. GUNNISON, JOSEPH P. HIRT, and BRADLEY D. MOTTIER was given a Fourth Award. Professor Rodney D. Hugelman was the consultant for this project and Technical Innovations, Inc., of Tempe, Arizona, the sponsor.

DEPARTMENT SECRETARIES
Left to right: Mrs. Butler, Ms. Cuffman, Mrs. Hale.

HONOR DEPARTMENT SECRETARIES

Three of the department's secretaries were honored for their years of service to the university at a reception in the Student Lounge on September 26. Of the three, Mrs. MARILYN BUTLER has given the greatest number of years of service. She came to work at the university for the department in 1962. Next in length of service is Mrs. ETHEL-MAE HALE who started working for the Department of Electrical Engineering in 1963 and transferred to the Department of General Engineering in 1964. The third, Ms. DARCEY CUFFMAN, transferred in 1976 to the department from the University Library where she had started working in 1972.

Professor Dobrovolny presented to each of them a certificate of appreciation from the Board of Trustees. In addition, Mrs. Butler and Mrs. Hale each received a stick pin decorated with the seal of the university and the number 15 which represented their years of service based on an increment of five years.

The faculty and students appreciate the fine work which these three have so faithfully performed.

IN MEMORIAM

MARSHALL MILLER COOLEDGE '26	September 6, 1978
HARRY ENSMINGER RIDLEY '29	June 10, 1979
ADDISON NEWMAN GROAK '43	April 22, 1979

ABIGAIL D. HARPER

EXCHANGE STUDENT IN ENGLAND

ABIGAIL D. HARPER '81 from Geneva was the first special exchange student from the Department of General Engineering to attend the University of Sussex which is located near Brighton in County Sussex, England.

Like Illinois, the University of Sussex is divided into colleges and is known to have a good engineering school. Unlike here, the student does NOT go outside of his or her college for any subject. Courses in economics, history, rhetoric, mathematics, etc., for the engineer are taught as engineering subjects. Music, painting, photography, physical education such as fencing and sailing, and similar subjects are offered as club activities. Abby experienced no difficulty in transferring her credits from the University of Sussex to the University of Illinois.

There the courses are organized in either of two ways: as seminars of 20 or 30 students like the lecture-discussion groups here; or as large lecture sections which are divided into small tutorial groups rather than quiz sections. A tutorial group consists of four students and a professor. The students remain in that same group until they graduate but the professor changes. In addition, each undergraduate student is assigned a personal tutor who is available to help the student with academic, personal, or other problems at any time during his or her time at the university. This relationship may become so personal that student and tutor end up pub-crawling together.

Abby thought many of the first year courses at Sussex were harder than they are here. She found there were fewer quizzes to take and fewer assignment deadlines to meet over there than she had here, thus requiring greater self-discipline from her to do the necessary studying. Lacking repeated quizzes and written assignments, the Sussex student feels less academic pressure than one here. If something is unclear there is time to research it or to investigate other topics.

At Sussex the engineering student takes an exam in the middle of the first year. This grade does not count on the record for a degree. However, if the grade is unduly low the student is put on the dean's list, i.e., on probation. At the end of the first term of the second year the student must take another exam which covers all subjects studied up to that time. The end of the second year is marked by another exam. This one covers all the courses taken that year. Abby did not know about the exams given to third year students. Only three years are required to earn a degree at Sussex because there is a greater concentration of subject matter within a single course than there is here.

Abby considered the university fees at Sussex to be about equal to what they would be for an exchange student at the University of Illinois. With the help of her parents and earnings from summer jobs, she paid all of her fees and transportation. The fees included the cost of her board and room since she lived in university housing where she shared a flat (apartment) with five other students. Each person had a private room but all shared the combined kitchen-dining area and a small living room. At the end of the year the students received refunds because they had prepared their own meals.

General impressions: British students are friendly to the many students from other countries. The Sussex student body is politically active, demonstrating and occupying university buildings as students did here in the 60's. Students there like to drink too, but they don't indulge in the rowdyism found here. They are more fashion-conscious than those here. It was fun!

Recommendation: At least one engineering student from the University of Illinois should study at the University of Sussex every year.

I. S. G. E.

The Illinois Society of General Engineers held its first meeting September 20 at the Illini Union. The president discussed the society's plans for the current school year. Among the events planned are the annual student-faculty volleyball game and bowling tournament. I.S.G.E. will continue the noontime forums at which a member of the faculty tells the students about one of his hobbies or interests. Other plans include a field trip to a nuclear reactor with Professor Davis, I.S.G.E.'s faculty advisor.

This year the main focus of I.S.G.E. will be towards making the General Engineering display at Engineering Open House a real success. The society's officers are: President, MICHAEL B. JACOBS '81, Chicago; Vice President, BRIAN J. GALLEY '80 from Ottawa; Secretary, MARK A. SCOTT '82 of Blue Mound; Treasurer, MITCHELL S. FEIGER '80, Wilmette; G.E. Engineering Open House Chairman, APRIL E. HORNE '80, of Rantoul; and Engineering Council Representative, NICHOLAS F. BUDD '82, Lacon.

NEWS OF GAMMA EPSILON

Gamma Epsilon held its first meeting of the year on August 28. The new officers, elected last spring, are: President, STEVEN H. MITCHELL '80 of Marion; Vice President, EDWARD J. JASELSKIS '80 from Evanston; Secretary, MARGARET E. GIBSON '81, Rock Island; Treasurer, ERIC M. AUSTIN '80 from Aurora; and Engineering Council Representative, SILVANA A. MEDINA '80 of Joliet.

Several events have been planned for this fall. The first, which took place on September 8, was a canoe trip at Turkey Run in Indiana. Other activities included two social hours, on September 13 and October 4 respectively. In addition, there will be the fall banquet and, hopefully, a field trip.

A new and unusual activity is being initiated this fall. Gamma Epsilon is entering all-university intramural sports with a co-recreational volleyball team. Coach JODY (JO ANN) WHITACRE '80, Decatur, is already looking forward to the play offs.

ALUMNI NEWS

'54 ROBERT A. NEIMAN was awarded an M.B.A. with distinction by Harvard Business School in 1962. He is Vice President of Robert H. Schaffer & Associates, a management consulting firm which helps managements set more ambitious goals and mobilize their resources to achieve them. Over the past 17 years his assignments have been in industry, education, health care, and government in the United States, Europe, and Latin America. Neiman is a founding member of and certified by the Institute of Management Consultants.

'64 This summer RICHARD H. MILLER, Jr., was appointed Assistant Group Controller of the Chemicals Group by Air Products. He is responsible for inventory and distribution control, fixed asset accounting, project control, financial accounting and consolidations, and research and development accounting, as well as for the Chemicals Group's credit and collections. Miller received an M.B.A. degree from the University of Illinois and joined Air Products in 1969.

'64 Last spring DALE H. RENKEN was named manager of x-ray programs manufacturing for the General Electric Company's Medical Systems Division. In this position Renken is responsible for the development of detailed manufacturing plans for the x-ray programs department; for coordinating the manufacturing program plans with the division's other departments; and for contributing to the department's long-range strategy. He and his wife, Susan, have two children; Jeffrey, 9, and Stephanie, 6.

'65 KENNETH N. ARCHAMBAULT has been promoted to president of US Samica Corporation. He joined the firm in 1975 as general manager and was promoted to vice president in 1978. In his new position Archambault is responsible for all of the Company's operations in North America. US Samica is a subsidiary of the International Isola Group, major European-based supplier of insulating materials, magnet wires and cables to the electrical manufacturing and repair service industries. The firm is a technical leader in high-voltage electrical insulations. Under Archambault's direction it has recently started a program of market diversification and expansion.

'67 In 1971 MICHAEL N. YOSHIMURA received his M.B.A. degree from the University of Southern California. He is now Vice President and Controller of Humphreys & Associates. This is a management consulting firm which specializes in project/program management and parametric costing.

'69 GARY R. ALLIE was on campus last spring to speak to the students in G.E. 291, General Engineering Seminar. Allie was a teaching assistant in the department while studying for the M.B.S. degree which he received in 1971. Over the past several years he has had a variety of assignments with Inland Steel. JIM D'ORAZIO '75 and TOM ZYCH '77 were working with Allie at the time of his visit to campus.

'71 JAMES L. DOBROVOLNY graduated from John Marshall Law School in February, 1975. After two years in the office of Illinois Attorney General Scott and over two years as Assistant State's Attorney for Champaign County, Jim has entered into a partnership with James E. Souk, Law '74, for the general practice of law. Official name of the firm is Dobrovolny & Souk. The office is located in Urbana.

'71 Like Allie BRUCE R. HOLOCEK was a teaching assistant in the department while earning the M.B.A. degree he received in 1973. Bruce, President, Tower Hobbies, Inc., writes, "In conjunction with my business of radio-controlled model airplanes, I found it advantageous to obtain a private pilot's license. I recently earned my multi-engine and instrument ratings and am now piloting the company-owned Piper Seneca II." He and his wife, Jeri, had their first child, Justin Robert, last March.

'72 JEFFREY F. VOELZ is a staff engineer engaged in mechanical research, design, and development for Onan Corporation. He is presently responsible for the design and development of heavy duty, high speed, industrial diesel engines. Although working long hours Jeff still finds time to build and fly experimental aircraft and follow the Fighting Illini. After ten years of marriage he and his wife, Carol, have two sons: Vince, 4 years, and Nik, 10 months. Jeff sends a big hello to his classmates.

'72 SHULAR R. SCUDAMORE has been promoted to Marketing Manager, Engineered Products by Stephens-Adamson, Inc., after two years with the company as a product specialist.

'73 JAMES CURTIS BROLINE, professional engineer, is Regional Manager, Hawley Division of Envirotech. He works in air pollution control, primarily on turnkey, engineering, and equipment supply projects for foundries and steel plants. His wife, Janet, is Regional Marketing Manager with Burger Chef Division of General Foods.

'73 Employed in the Environmental Division of Clark, Dietz & Associates, Engineers, Inc., THOMAS L. BURKE has worked this past year as project manager on the design of advanced wastewater treatment facilities for the city of Richmond, Indiana. The facilities will provide nitrification, filtration, and phosphorus removal for wastewater flows up to 36 million gallons per day. Burke received his M.S. in Civil Engineering from UIUC in 1977. He and his wife, Trudy, a social worker in the emergency room of Burnham City Hospital, have two sons: Tom, 7, and Ryan, 2.

'73 Dr. THOMAS L. KOEHLER just received his Ph.D. in Meteorology from the University of Wisconsin, Madison, in August.

'73 MICHAEL F. PURCELL is a project manager for Burroughs Corporation. A daughter, Margaret, was born to him and his wife, Connie, last March. Purcell is nearing completion of his M.S. in Computer Science at Villanova University.

'73 Upon graduation KARL JON SCHAULIN joined Proctor & Gamble as a project engineer at the Jackson, Tennessee, plant. Since that time he has been promoted to a line team manager, then to a systems manager, and last January to Project Department Manager for the entire Jackson Plant Site. The site includes an established plant for the manufacture of all kinds of Pringle potato chips plus a new Prepared Mix Plant for making Duncan Hines layer cake, brownie, etc., mixes. In this position Schaulin is managing an on-site construction contractor, building maintenance, process safety, environmental control, security for the plants, and all project spending for the plants. He and his wife have three children: Kraig Andrew, born last December; Kyle, 1½ years; and Kirsten, 3½.

'73 Early this year W. PETER SIEMS, after five years as chief mechanical engineer for Chanute Air Force Base, accepted a position as a mechanical engineer at the Mossville works of Caterpillar Tractor Company. There he is responsible for designing and upgrading HVAC and utility support systems. Pete is a member of ASHRAE. Recently he served a term as Junior Vice President for the Illini Post of the Society of American Military Engineers. Pete and his wife, Phyllis, have a one-year old son, Scott.

'74 In August, 1978, MARK C. BENTON received his

Ph.D. in Mechanical Engineering from the University of Wisconsin at Madison. At present Mark is employed as Research Engineer with the Engineering Technology Laboratory of E. I. duPont de Nemours Company.

'74 ALEX G. BERSIN is Senior Development Engineer on cardiopulmonary disposables in the Artificial Organs Division of Travenol Laboratories, Inc.

'74 BRUCE L. HURVITZ is working with the Fisher Steel & Supply Company of Muskegon.

'74 NEAL C. NEALIS is applying his engineering training to the practice of dentistry. Neal finished dental school at the University of Illinois last June and is now working as an associate dentist in the practice of Dr. A. J. Kaleta, one of his former professors.

'74 JOHN B. REAT earned his M.B.A. degree at UIUC in 1976. Last January John left Arthur Anderson & Company to become Applications Consultant for the St. Louis branch of Tymshare, a company in the computer time-sharing business. In this position he is responsible for evaluating the customer's computer needs and the unique implementation steps required to meet those needs. In August John was married to Lee Anne Harness. She is Executive Director of St. Louis Downtown Daycare, Inc.

'75 JAMES W. and KATHLEEN C. GAINES received their M.B.A. degrees from the University of California in March, 1978. They are Space Shuttle Program Project Engineers for the U.S. Air Force at Vandenberg Air Force Base. Both members of this husband and wife Air Force team have been promoted to captain, Kathy on March 24 and Jim on August 29, 1978. This five month difference between their promotions is because Kathy graduated from UIUC one semester before Jim. Their life is not all work. Kathy took first place in the Women's All Events Air Force Systems Command Regional Bowling Tournament in May. Jim is still active in raquetball.

'75 JOHN E. KUHN earned his M.B.A. in 1978 from Rensalear Polytechnic Institute. Presently he is attending the Air Force Institute of Technology at Wright-Patterson Air Force Base, pursuing an M.S. in Facilities Management. John and his wife of six years, Lorraine, have a daughter, Laura, 2½ years old.

'75 JAMES J. SCHLEMBACH is Resident Engineer at No. 2 mine of the Monterey Coal Company where he supervises the day-to-day engineering work. Four graduate engineers, three technicians, two surveying teams, draftsmen, and a chemist all report to Jim.

'76 MICHAEL J. CARDONI was a teaching assistant in the department while studying for his M.B.A. degree which he received in May, 1978. He is now Supervisor of Analytical Services for Cummins Engine Company. Last April Mike came to campus to tell an industrial engineering class about the quality assurance system he is developing at Cummins. On the same trip he spoke to a meeting of the American Society for Quality Control.

'76 The John Marshall Law School awarded the degree of Juris Doctor to STEPHEN A. LITCHFIELD last February. Steve has passed the Illinois State Bar Exam and is employed as an attorney with the Chicago law firm of Dulin, Thierpont, Pottlast & Snyder.

'76 DENNIS J. PROBST is Company Manager of Industrial Machinery Service Company which operates a repair shop for blowers, pumps, and compressors. He is totally responsible for the purchasing and selling of a complete line of blowers and blower parts on a consultant basis for Compressor Engineering Company. In the last year Dennis has doubled and tripled the inventory of blowers with a corresponding increase in the number of units sold. He also initiated with equal success a program for stocking a vast quantity of blower parts.

'76 NEAL SIEGEL has moved to Chicago where he is selling real estate.

'76 After three years with the Linde Division, Union Carbide Corporation, and being admitted to the U.S. Patent Bar in 1977, THOMAS W. TOBIN was recently promoted to Manager, Patent Liaison, of the Tarrytown Gas Products organization. In this position Tom is fully responsible for reviewing major chemical and metallurgical development programs and initiating action for the protection of associated proprietary technology. This fall Tom began his fourth and final year of evening law school at Pace University. He is an associate editor of the law review there.

'76 STEVEN B. TODARO, a sales application engineer for Ingersoll-Rand Company, is attending night school at Loyola University of New Orleans in a J.D./M.B.A. program.

'77 JOHN D. BARUCH has been a production engineer for Ekco Products, Inc., since graduation. On April 21 John was married to Debra J. Renner '77, M.Ed. '79, a director for the Elk Grove Community Day Care Center.

'77 The year 1979 has brought changes for LISA DOCHTERMANN CHISHOLM. Although still with the company she joined upon graduation, Lisa now has a different job in a different division. She is a project engineer designing automotive fasteners and components. The new job meant a new address, this time in Chicago Heights. On April 28 Lisa and Thomas Chisholm '75 Accounting, were married.

'77 JOHN A. METZ was on campus in the spring to attend a seminar on the mechanics of fractures. John is working in transmission testing at the John Deere plant in Dubuque, Iowa, and enjoys his work. He has bought a house. In his leisure time John is learning to fly.

'77 KAY TULLY PEEL is participating in the new engineering professional development program of Abbott Laboratories, North Chicago.

'78 A technical representative for Kemper Insurance Company, JAMES L. BURTON is just finishing a one-year training program for fire protection. He is involved in making fire inspections for insurance purposes. Jim has been assigned a trainee and is showing her the job responsibilities involved in this line of work.

'78 MARTIN E. LUNKES is a sales engineer for Johnson Controls Inc.

'78 Since graduation ROGER D. REEM has been employed as an engineer in the Project Management Department of Mason & Hanger – Silas Mason Company, Inc., at the Iowa Army Ammunition Plant (AAP) in Middletown. Mason & Hanger is an engineering consulting firm which is contractor-operator of the Iowa AAP, among others, including the Pantex Plant in Amarillo, Texas, where all nuclear weapons for the U.S. Army are assembled.

'79 PHILIP J. MORETTINI stopped by the department in the spring. He is working on the development and use of lightweight materials for truck and recreational vehicle bodies at the Ford Motor Company in Dearborn. Phil was considering entry into an M.B.A. program.