

Two engineering graduates receive DSA honors

Distinguished Service Awards were presented in May to Donald R. Chesnut, a vice president at Boeing Military Airplane Co., Wichita, and Martin K. Eby, Jr., president and chairman of the board of Martin K. Eby Construction Co., Wichita.

The two executives were honored during engineering commencement exercises in recognition of outstanding contributions to K-State and to the engineering profession.

Chesnut is a 1950 graduate in electrical engineering from KSU. Eby received a B.S. in civil engineering in 1956. Both are members of the College of Engineering Advisory Council.

Now vice president of Avionics and Weapons Systems Integration Programs at Boeing, Chesnut began work with the company in experimental flight testing after leaving KSU. He has held a number of key positions at Boeing in the missile and space field, including those of test manager for Minuteman III research and development launches, and manager, at Huntsville,



Donald R. Chesnut

Ala., with responsibility for all functions in support of the NASA Saturn/Apollo/Skylab programs.

Chesnut was spacecraft technology chief at the NASA Manned Space Center in Houston, Tex. In 1974 he became president of Boecon, a Boeing subsidiary. He was named Minuteman program manager in 1979 and in 1981 became director of B-52 programs. He is a member of the National Aeronautics Association.

Eby joined the Eby Construction Co. in 1956 as a field engineer and subsequently



Martin K. Eby, Jr.

served as superintendent, project manager and vice president.

He is a member of the American Society of Civil Engineers, American Society of Testing Materials and the National Society of Professional Engineers. He won the Wichita Society of Professional Engineers Outstanding Young Engineer Award in 1969.

Eby is past chairman of the Construction Industrial Political Action Committee of Kansas and chairman of the Wichita Area Economic Education Foundation.

Paslay establishes chair for deans of engineering



LeRoy C. Paslay

LeRoy C. Paslay, Kansas State University engineering graduate and philanthropist, has established an endowment that is supplementing the chair of the current dean and will supplement the chair of the future deans of engineering at Kansas State.

Dean Donald E. Rathbone is the first recipient of the Leroy C. and Aileen H. Paslay Chair in Engineering.

The chair provides a significant salary

supplement, depending on the income from the gift. The KSU Foundation is custodian of the funds.

In acknowledging the gift, Rathbone said that it "not only provides the salary supplement, but it also includes a clause that increases the amount each year to take into account the rate of inflation. The award will be as meaningful 50 years from now as it is today."

The purpose of the supplement, according to Paslay, is to "help attract and retain an individual of superior qualifications for this important position."

The Paslays, of Manalapan, Fla., have been major donors of scholarship funds in the College and in the fund-raising drive to provide equipment for the Durland Hall engineering building. The 180-seat lecture hall in the building is named after LeRoy C. Paslay, in recognition of his many contributions.

"We are very appreciative of all that the Paslays have done for the College and for the University," Rathbone said.

"It is obvious that Paslay is an individual who plans for tomorrow as well as for today. He is an outstanding man and he is a great friend to the University."

Paslay is retired president of Marine Seismic Surveys, Inc. and Marine Geophysical Co. A 1930 graduate of KSU in electrical engineering, Paslay taught here as an assistant professor while working on an M.S., which he received in 1934.

During the 1930s and '40s, Paslay became principal in a number of companies which developed and distributed marine instruments. His pioneering accomplishments as principal developer of the Marine Seismic Steamer, a recording device, earned him the Society of Exploration

College marks expansion of computing center

A \$1 million expansion of computing facilities in the College of Engineering was noted in October with a ribbon-cutting ceremony.

The expansion included acquisition of two Harris 800 super-minicomputers, one of them a gift of Harris Corp., Melbourne, Fla. Private funds were used to purchase the second computer.

The new computers will make it possible for the College to develop its instructional and research activities in computer-aided design and computer-aided manufacturing, Dean of Engineering Donald E. Rathbone said.

A classroom adjacent to the computing center, located in Durland Hall, has been remodeled to make space for about a dozen new terminals. A VAX-11/750 super-minicomputer in the Department of Electrical and Computer Engineering soon will be moved into the center. Eventually more than a hundred remote terminals throughout the College will be connected to the system in Durland. New graphics and alphanumeric terminals also are being installed.

The minicomputers will be used primarily for research and upper-level teaching. They also will provide the computation



Harris 800 super-minicomputers were major additions in \$1 million expansion of computing facilities. From left are Dean Donald Rathbone and Associate Dean Kenneth Gowdy.

necessary for research being conducted through the new K-State Center for Excellence in Computer-Controlled automation, which is located in the College of Engineering.

Further development of the computing center will take place through 1986, with

the addition of peripheral equipment, said Associate Dean of Engineering Kenneth Gowdy, who has administrative responsibility for the center.

Steve Coulson, formerly of the Department of Nuclear Engineering, has been named full-time director of the center.

KSU the winner in space glove design competition

When Space Shuttle Mission 61-A was launched in October, nine K-Staters were in the VIP stands as guests of NASA.

An all-expense paid trip to Orlando was

their reward for winning first place in the spacesuit glove design team competition, sponsored by NASA and the American Society of Engineering Education.

Team members from the College of Engineering and the College of Human Ecology (formerly the College of Home Economics) were notified in June that their glove design was best among the four schools that had been chosen to submit entries. In the competition with K-State were the Massachusetts Institute of Technology, the University of Oklahoma and Worcester Polytechnic Institute.

Each team was given \$30,000 to come up with a design for a glove that could handle an increased pressure load while maintaining or improving manual dexterity. The glove was to be one that could be used in extra-vehicular activity with suits pressurized to 8 psi. Space suits in current use are pressurized to 3.5 psi.

Included in the two-day visit were an all-day tour and briefings at the Kennedy Space Center and a talk by a NASA astronaut.

Team members from engineering who traveled to the launch were John Held, graduate student in mechanical engineering from Manhattan; Nesby Bolden, former graduate student in industrial engineering

from Wichita who is now employed by General Dynamics; Carlyn Solomon, former student in industrial engineering from Rush Center, now employed by Electronic Data Systems; faculty advisors Stephan Konz, industrial engineering, and George Eggeman and Byron Jones, mechanical engineering.

College of Human Ecology team members who made the trip were students Kim Ellis and Janice Huck and advisor Elizabeth McCullough.

Other recent student honors

Darin George, senior in nuclear engineering from Great Bend, received a \$2,500 scholarship from the American Nuclear Society. The award is one of 10 given each year by ANS in recognition of academic performance and promise in nuclear science and engineering.

The student chapter of the American Society of Civil Engineering was awarded a Certificate of Commendation by the society for outstanding activities during the past year. Faculty advisor is Bruce McEnroe.

The American Society of Mechanical Engineers won the Bendix Award as the best student chapter in ASME's Region VII. John Kipp is faculty advisor.



Professor Smaltz dies



Jacob J. Smaltz

Jacob J. Smaltz, professor of industrial engineering and a veteran of 45 years of teaching at KSU, died in June.

Prof. Smaltz, who retired this spring, came to K-State in 1940 to teach in the De-

partment of Shop Practice. He was promoted to head of the machine shop section in 1946. As the department grew, so did his interest in modern inventions like the computer. His interest in computing led to the first computer course offered at K-State.

He taught classes in computers and data processing, occupational safety and health, tool engineering, and production processes. He also was faculty adviser to Alpha Pi Mu.

A 1939 graduate of Bradley University, Prof. Smaltz earned an M.S. degree from KSU in 1946. He was a registered Professional Engineer and a Certified Safety Professional.

Prof. Smaltz was a member of several honoraries and professional societies and was listed in *American Men and Women of Science*. In civic activities, he was particularly active in the Red Cross and was a delegate to the Governor's Safety Council. For his work in the field of industrial safety, he became known as "Mr. Safety" to many government officials.

"Prof. Smaltz was a very special person to many of us, faculty and students alike," Dean Donald E. Rathbone said. "One could stop by the College almost any time, it seemed, and Jake would be there, working with students or checking the remote computing center."

Faculty activities, awards noted

Johnson to head ASAE



William H. Johnson

William H. Johnson, director of the Engineering Experiment Station, is president-elect of the American Society of Agricultural Engineers.

Johnson also is serving this year as president of the Kansas Engineering Society.

A faculty member since 1970, Johnson served 11 years as head of ag engineering. He has been director of the experiment station since 1981 and recently took on duties as director of the College of Engineering Research Council.

Johnson has B.S. and M.S. degrees from Ohio State University and a Ph.D. from Michigan State. He is author of numerous professional journal articles and semi-technical articles in the areas of harvesting

and soil-plant dynamics and is co-author of a book on harvesting.

- L. T. Fan, professor and head of chemical engineering, was elected a Fellow of the American Association for the Advancement of Science. Fan was honored for his contributions in systems and optimization of chemical processes and in the operations of solids mixing, fluidization, and reaction kinetics. Fan was recently designated a University Professor.

- Dennis Kuhlman, assistant professor of agricultural engineering, received the "Young Engineer of the Year" award from the Kansas Section of the American Society of Agricultural Engineers.

- Robert L. Gorton, professor of mechanical engineering, served as American Society of Heating, Refrigerating and Air-Conditioning (ASHRAE) representative on the organizing committee of the World Congress on Heating, Ventilating and Air-Conditioning in Copenhagen, Denmark, in August. Gorton also is starting a three-year term on ASHRAE's Research and Technical Committee.

- John Lindholm, professor and head of engineering technology, was one of a 10-

member ASME delegation visiting China in May to work out details for exchange of information with the Chinese Mechanical Engineering Society.

- George Eggeman, assistant professor of mechanical engineering, was U.S. representative at the British Society for Strain Measurement Conference in Cambridge, England.

- David Pacey, assistant professor of agricultural engineering, has been selected as chairman of the 1986 Western U.S. 4-H Engineering Event held each year in Omaha.

- Charles L. Burton, professor of architectural engineering and construction science, was given the College of Engineering's James L. Hollis Award for excellence in undergraduate teaching.

The award includes a \$500 stipend. A color portrait of Burton will be displayed for the coming year in the lobby of Durland Hall.

Burton, who has been on the faculty since 1970, received a B.S. in civil engineering from KSU in 1963, and then worked as a professional engineer. He received an M.S. degree from the University of Kansas in 1975.

What's New With You?

We'd like to know, and so would your former classmates. Please take a few minutes to jot down any job changes, professional or other activities, whether you've retired, or any reminiscences you'd like to share. Use the form below or write to: IMPACT Editor, College of Engineering, Durland Hall, Kansas State University, Manhattan, KS 66506.

NAME _____ CLASS OF _____ MAJOR _____

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Return to: IMPACT Editor, College of Engineering, Durland Hall, Kansas State University, Manhattan, KS 66506.

College welcomes new faculty members

The College of Engineering has eight new faculty members this fall.

New in the Department of Agricultural Engineering are John W. Slocombe, Steven C. Young and Gerald E. Thierstein.



John W. Slocombe

Slocombe, an assistant professor, received B.S. and M.S. degrees in agricultural education from K-State and earned a Ph.D. from Iowa State in 1983. He is teaching ag mechanization.



Steven C. Young

Young, an assistant professor, has a B.S. from Clemson University and M.S. and Ph.D. degrees from Auburn University, all in agricultural engineering. His Ph.D. was awarded in 1985. Young is teaching classes in farm power and will be doing research in the area of power machinery.

Thierstein, an associate professor, holds a research position at the ag engineering research farm near Scandia. He holds B.S. and M.S. degrees from Kansas State in agricultural engineering.



James DeVault

Joining the Department of Engineering Technology are James DeVault and Gary D. Hiatt.

DeVault, an associate professor, holds a B.S. degree in electrical engineering from Michigan Technological University and an M.S. in business administration from Michigan Tech. He received a Ph.D. from the University of Michigan in 1977. He worked for Emerson Electric Co. in St. Louis before coming to K-State. DeVault is teaching classes in electrical engineering technology.



Gary D. Hiatt

Hiatt, an assistant professor, has a B.S. degree from North Carolina State University and an M.S. from Virginia Polytechnic Institute, both in engineering science and mechanics. He worked as a plant engineer before coming to Kansas State and is teaching classes in mechanical engineering technology.



Mickey L. Stilson

Mickey L. Stilson has joined the Department of Industrial Engineering as an instructor. Bradley A. Kramer, who received his Ph.D. in industrial engineering from Kansas State in 1985, has been appointed as an assistant professor.



Bradley A. Kramer

Stilson has B.S. and M.S. degrees from Kansas State in math and statistics, respectively, and worked for Boeing Military Air-

plane Company in Wichita before returning to K-State. He is teaching in the area of computer data processing.

Kramer has B.S. and M.S. degrees from KSU in industrial engineering and is teaching in the areas of robotics and computer-aided design.

Warren N. White, Jr. is a new assistant professor in the Department of Mechanical Engineering. He has a B.S. in electrical engineering from Tulane University, an M.S. in electric power engineering from Rensselaer Polytechnic Institute and a



Warren N. White, Jr.

Ph.D. in mechanical engineering from Tulane, which he received in 1985. He is teaching automatic controls and will be doing research in robotics. Before coming to Kansas State, White worked in the power transformer department of General Electric in Pittsfield, Mass.

Pasley, from p. 1

Geophysicist Medal Award for 1976. He also has received a number of other honors for his contributions to engineering, including a Distinguished Service Award from the College of Engineering in 1983.

Rathbone has been dean of engineering at K-State since 1973. Since his appointment, two buildings in the Durland Hall engineering complex have been constructed, scholarship and research support have grown substantially, and a number of innovative programs to recruit and retain students have been established.

Rathbone received a B.S. in electrical engineering from Purdue University, where he graduated first in his class. He holds an M.S. from Northwestern University and a Ph.D. from the University of Pittsburgh, where he received the Distinguished Alumnus Award.

Rathbone has published numerous articles in professional journals, served as a consultant to industry and has held office in many professional and other organizations at the national, state and local levels. He is listed in *Who's Who in America* and *Who's Who in the World*.

ENGINEERING

KANSAS STATE UNIVERSITY, COLLEGE OF ENGINEERING

The College of Engineering at Kansas State University has had outstanding success over the past few years in various regional and national competitions. The national competitions that K-State competed in included more than 250 engineering colleges, and the regional competitions included schools in the four- to six-state region around Kansas.

It is my opinion that our successes are second-to-none nationally, and we should be very proud of our students. I have often been quoted as saying that we in engineering at K-State get the best students, and I believe that our record speaks for itself.

Donald E. Rathbone
Dean of the College of Engineering

1. The College of Engineering at Kansas State University has the **largest and most comprehensive engineering program** in the state of Kansas. Our present undergraduate program contains 11 degree programs with many additional options. Approximately 2,600 undergraduates are enrolled in the college.

2. In the 1970s, K-State was one of three engineering colleges in the country that won a **national SCORE competition** (Student Competition on Relevant Engineering).

3. K-State's College of Engineering is the third in the United States to receive the **Koerper Award** for professionalism in its program. The award is sponsored by the National Society of Professional Engineers.

4. Industrial and mechanical engineering students, along with two students from the clothing and textiles program, won the **Spacesuit Glove Design Team Competition** sponsored by NASA and the American Society for Engineering Education (ASEE) in the spring of 1985.

K-State defeated teams from the Massachusetts Institute of Technology, the University of Oklahoma, and Worcester Polytechnic Institute in the final round of competition.

5. A team of agricultural engineering seniors won the **1984 National Allis Chalmers Student Design Competition**, sponsored by the American Society of Agricultural Engineers. It marked the sixth time in eight years that K-State has won the competi-

tion. K-State finished second one other year.

6. For the fourth year in a row, the K-State chapter of Associated General Contractors has been named the **top chapter in the nation**. K-State competed for the honor with 107 other chapters from around the country.

Professor Blackman, of the Department of Architectural Engineering and Construction Science, was the first recipient of the **AGC Outstanding Educator Award**.

7. K-State has established **Phi Alpha Epsilon**, the first national architectural engineering society.

8. *Kansas State Engineer* magazine won **four national awards last year**, bringing the total to 21 over the last eight years. The publication has been honored in such categories as editorials, art and photography, technical articles, features, and best all-round magazine.

9. **Durland Hall** was selected as one of the outstanding buildings in Kansas by the Kansas Society of Architects of the American Institute of Architects. Durland Hall rapidly is gaining recognition as one of the outstanding engineering complexes in the country.

10. The state of Kansas has established the **Center of Excellence in Computer-controlled Automation and Artificial Intelligence** in the College of Engineering. The center and related research projects have attracted more than one million dollars in funding from federal agencies and industry this past year.

11. K-State students paddled to victory in the **1985 Concrete Canoe Race**, hosted by civil engineering students. K-State won first prize for best design and received the traveling trophy for most overall points.

12. The Kansas State University student chapter of the American Society of Civil Engineers has received **Certificates of Commendation** for 25 of the last 26 years.

This record is one of the best in the nation.

13. K-State students have been very successful in **national scholarship competitions**. Here are some examples:

Marc Brack, 1984 graduate in electrical engineering from Hoisington, Kansas, won a **Phi Kappa Phi Graduate Fellowship Award**. Only 51 are awarded nationwide. He will use his award to continue his studies in electrical engineering at K-State.

Victor A. Simonis, a graduate student in nuclear engineering, was awarded the **Robert A. Dannels Memorial Scholarship** from the American Nuclear Society. He had previously won the John R. Lamarsh Scholarship from the American Nuclear Society as an undergraduate. Only five undergraduate and four graduate scholarships are awarded annually by ANS in national competition.

Darin George, senior in nuclear engineering from Great Bend, received the **Joseph R. Dietrich Memorial Scholarship** from the American Nuclear Society. The award is given by ANS in recognition of academic performance and promise in nuclear science and engineering.

Rodney Fox, graduate student in chemical engineering from Wichita, has received a **National Science Foundation Fellowship**.

David Jarrett, senior in electrical engineering and computer science from Kansas City, Kansas, won a graduate fellowship from the **National Consortium for Graduate Degrees for Minorities in Engineering, Inc.** As a part of the program, Jarrett was assigned a summer internship at Lawrence-Berkley Laboratory.

14. A 1976 *Changing Times* study, updated in 1982, listed 50 top schools in the country that "**offer high academic standards at below-average prices.**" Criteria included average test scores for entering freshmen, admission policies, the number of students going on to advanced studies, and the percentage of students graduating.

K-State and two other Big 8 schools are listed in the top 50.

15. The American Society of Mechanical Engineers student chapter won the 1984-85 **Bendix Award** for the outstanding student chapter in Region 7.

16. The Mid-America Engineering Guidance Council **headquarters for Kansas and western Missouri** has been transferred to the K-State College of Engineering at Manhattan, Kansas.

17. Students in engineering technology designed, built, and installed a new **electronic control system** in an electric car that was given to the department.

This is their second electric car project. The first project involved an extensive redesign and remodeling of an early model electric car.

18. The K-State student branch of the American Nuclear Society was selected as co-recipient of the **Samuel Glasstone Award** for accomplishing the most notable achievements in public service and the advancement of nuclear engineering during the 1984-85 year.

19. K-State **minority students have formed chapters** of the National Society of Black Engineers, the Society of Hispanic Professional Engineers, and the American Indian Science and Engineering Society.

Student participation at national conferences is putting the K-State programs on the map.

20. Mark G. Verschelden, a senior in industrial engineering, was one of 14 students from across the nation to spend 10 weeks in the **Washington Internships for Students in Engineering** program during the summer of 1985. The program is administered by the American Society for Engineering Education.

21. More than half of the **National Merit finalists** at Kansas State University are in the College of Engineering.

Max E. Foote Scholarship established



Max E. Foote

A new scholarship program has been established with an endowment gift from Max E. Foote of Paola.

The Foote Scholarship will be awarded to engineering students who need financial assistance and who have high scholastic ability. Preference will be given to students in civil engineering and in construction science. Funds will cover a full year of tuition.

Mr. Foote, who died in November, was a 1938 graduate of K-State in civil engineering. He worked for Black & Veatch in Kansas City for seven years before forming the Carrothers Construction Co. in Paola, with H. H. Carrothers. The company grew to

one of the larger sewage and water treatment plant construction companies in the Midwest. Mr. Foote served as president from 1959 until his retirement in 1981. Carrothers is still operating under the ownership of former employees.

"We are very appreciative of Mr. Foote's donation to our scholarship fund," said Dean Donald E. Rathbone. "And we are pleased to be able to honor with this program one of our outstanding graduates and a distinguished engineer."

New research projects in engineering

The College of Engineering's research funding was close to \$4 million during the past year. Following are some of the studies in progress:

Garth Thompson, mechanical engineering, is doing a project on the conversion of 2D graphics to 3D, with a total of \$250,000 in grants from Boeing Military Airplane Co. and the Kansas Department of Economic Development (KDED).

Eugene Russell, civil engineering, has a \$150,000 grant from the Federal Highway Administration to prepare guidelines for protective systems for spills of hazardous material.

Robert Gorton, mechanical engineering, has received \$110,000 from the American Society of Heating, Refrigerating and Air-Conditioning, Inc. (ASHRAE) for design of a system for stratified air-conditioning for manufacturing plants.

Stuart Swartz, civil engineering, has received a total of \$100,000 from the National Science Foundation for a study of "Fracture Toughness Testing of Concrete Beams in Three-Point Bending."

Herbert Ball, mechanical engineering, has been awarded \$82,000 from ASHRAE to do Phase II of an "Analysis of Open Sorption and Refrigeration Humidity Control Systems."

L. T. Fan, chemical engineering, will use a \$75,000 grant from NSF for a study of "Optimal Structures in Process Design and Synthesis."

Other major NSF grants:

Larry Erickson, chemical engineering, a total of \$72,000 for "Development of Models and Continuous Culture Theory for Photosynthetic Microbial Growth."

Erickson and Larry Glasgow, chemical engineering, a \$45,000 renewal for investigation of "Transport Phenomena Associated with Gas-Liquid Dispersions in Tower Fermentors Containing Viscous Media."

A. P. Mathews, civil engineering, and Fan, chemical engineering, \$65,000 for "A Study of Semifluidized Bed Adsorbers for



Andrzej Rys uses eximer-pumped dye laser in his study of deep impurity levels in thermally and pulsed-laser annealed gas. At right is Arkady Horak, graduate student.

Water and Wastewater Treatment."

Andrzej Rys, electrical and computer engineering, \$70,000 to begin research on "Deep Impurity Levels in Thermally and Pulsed-Laser Annealed Gas."

Albert Lin, civil engineering, \$68,000 to begin research on "Response of Full-Scale Thin Concrete Shells to Transient Vibration."

Joseph Merklin, nuclear engineering, has a \$62,000 renewal of a grant from the U. S. Department of Energy for diffusion flame studies of the chemical and physical mechanisms of soot formation from aromatic fuels.

D. S. Chung, agricultural engineering, will use a \$60,000 grant from the U. S. Department of Agriculture for a review of the state of the art in grain cleaning.

Donald Hummels and Brian Harms, electrical and computer engineering, will do Phase II of an intercept receiver analy-

sis, with a \$51,000 grant from Motorola, Inc.

Gary Johnson, electrical, and Al Heber, agricultural engineering, will measure the harmonics on transmission lines for Kansas utilities, with \$60,000 from the Kansas Electric Utilities Research Program (KEURP).

Charles Bissey, architectural engineering and construction science, has a KEURP grant to determine the factors involved in obtaining a cost-effective roof system.

Charles Burton of architectural engineering and Byron Jones, mechanical engineering, have USA Construction Engineering grants for various construction and energy studies at Fort Riley.

Other projects underway:

Fan, study of synthetic coolants, for General Motors Corp.; Swartz, Naval Con-

Cont'd. on page 8

Here is news from engineering alumni

Lawrence F. Whearty (CE '22) writes that he spent 43 years in civil engineering work in several states and three continents before retiring in 1965. His positions included those of First District engineer and manager for the federal Works Progress Administration and as Kansas state director for the Public Works Reserve. During World War II he served in the Corps of Engineers and later joined the Bureau of Reclamation. After nine years he transferred to the Department of State's Foreign Aid Program and served in Iraq, Jordan and Kenya, where he also worked part-time reviewing loan requests for projects in Tanzania and Uganda. He is now at home in Billings, Mont., with his wife of 61 years.

Delmar C. Anderson (CE '23) operated what he says was a "fairly successful" general contracting business in the Bahamas for 35 years, then sold the firm and other real estate and retired to Sarasota Fla., where he lives in a retirement complex with his wife, who is a Bahamian.

Philip M. Noble (CE '26, M.S. '32), Modesto, Calif., worked for the Bureau of Reclamation for 33 years and spent five years with the California Department of Water Resources. He retired in 1969 and is "still happily married" to Ruth (Kell) Noble, a KSU home economics graduate (1925, M.S. 1927).

Kenneth D. McCall (CE '34), Osceola, Mo., is retired, but a few years ago helped out in the communities when the Truman and Stockton dams were planned, and also served on a state citizens advisory committee.

Lloyd C. Burkes (ME '36) is retired in North Myrtle Beach, S.C., after 35 years operating his own electrical contracting business. He indicates he is giving some thought to attending his 50th class reunion next year.

Alvin H. Morgan (EE '37) retired from the National Bureau of Standards in 1968. He received an M.S. in physics from Georgetown University in 1952, is professor emeritus of Metropolitan State College in Denver and still teaches there part-time. He was a major in the U.S. Air Corps during World War II.

John A. Angold (EE '38) has been named a Fellow of the American Society of Mechanical Engineers. He has been doing consulting in Sun City West, Ariz., since his retirement from the ATSF Railway Co. in 1979 after 41 years. He worked as a test engineer and also was director of technical research and development. Angold holds patents on an underframe hydraulic cushioning device and on one of the first successful light-weight intermodal articulated rail cars.

Edward I. Allen (CE '39) is enjoying retirement in El Paso, Tex. He worked for Standard Oil Co. and was president of Chevron Pipe Line Co. from 1966 to 1982.

Arthur C. Willis (ChE '39) is project engineer for McDonnell Douglas Helicopters Co. He lives in Mesa, Ariz., where the company is moving its aircraft engineering and assembly operations.

Dale E. Zabel (Ind. Arts '41, M.S. '49) likes to stay active. Now a metallurgical consultant in Cottonwood, Ariz., he retired twice, once as a research engineer for the Boeing Co. and later, in 1981, after a stint with Magma Copper Co. in Arizona when he left to become metallurgical director. He was a Lt. jg. with the Navy Amphibious Corps during WWII, then taught physical metallurgy at K-State for 10 years. In recent years he traveled abroad with the People to People Program as a delegate with engineers from the People's Republic of China.

Glenn O. Schwab (AgE '42), Powell, Ohio, is professor emeritus of ag engineering at the Ohio State University. He retired in April after 29 years of service.

Clyde Woods, Jr., P.E. (CE '43), Topeka, retired in January after 38 years with the Kansas Department of Transportation. He managed construction offices in cities throughout the state and also conducted highway planning studies and administered federal funding programs for transportation of the elderly, handicapped and the general public.

Hal Faulconer (CE '51) is vice president, technical services, for National Liquefied Petroleum Gas Assn., Oak Brook, Ill., having taken early retirement from Phillips Petroleum Co. after 34 years.

Clayton Ferguson (ME '51), Montezuma, has been engineer in charge of a variety of projects for Farmland Industries plants at Dodge City and also farms 1,300 acres near Ensign on land where his grandparents' home is located and where he was born. He is pioneering insect control of grain in the area, using carbon dioxide, a by-product of the Farmland ammonia plant.

Earl L. James (ME '51), Kennewick, Wash., retired in July from Phillips Petroleum Co. after 34 years in the Petrochemical Division.

Elisha "Phil" Sanders, Col. USAF (Ret.), (EE '51), Wilmington, N.C., is senior engineer at Brunswick Nuclear Station for Carolina Power & Light Co. He was formerly a branch chief in command, control and communications at USAF headquarters in Washington, D.C.

Robert A. Irwin, P.E. (CE '53), Englewood, Colo., is retired from Mobil Oil

Corp. after 32 years, but still does some consulting for the company. He practiced in Oklahoma and Louisiana offshore, in the southwest and midwest as a petroleum reservoir engineer and as an advisor in regulatory engineering practices. He says he is proud of his K-State heritage and still hassles OU alums about the worst football trouncing in their history, the 59-21 defeat by KSU in 1969-70.

Samuel M. Warren (EE '58) has been promoted to vice president, advanced development, at E-Systems, Falls Church, Va.

Wallace A. Carter (ME '61), Fullerton, Calif., has been promoted to manager of the propulsion and ordnance department in the Ballistic Missiles Division of TRW. He received an M.S. in ME from the University of Southern California in 1966.

Harry L. Keller (EE '62) has joined Martin Marietta, Sunnyvale, Calif., as a senior engineer. He served more than 10 years each with General Electric Co. and Perkin-Elmer, Inc. Keller is also involved in management consulting and several oil exploration projects in Kansas and Texas. He received an MBA from Pepperdine University in 1977.

Larry R. Sams (IE '64) is general manager of two plants for Collins Industries Inc., Hutchinson. He had been production manager of a Manville Products Corp. plant in Winder, Ga., for eight years.

John C. Nye, P.E. (Ph.D., AgE '68), is professor and head of ag engineering at Louisiana State University and is serving as chairman of the Structures and Environment Division of ASAE. He is a former professor at Purdue University, where he received M.S. and Ph.D. degrees.

Dan L. Snyder (EE '69), Thousand Oaks, Calif., has been promoted to director of engineering at Borg-Warner. He joined the company in December 1984 as manager of project engineering. The company provides advanced hydraulic and pneumatic systems to the defense/aerospace and industrial controls markets.



David Soldan

David Soldan (EE '69, M.S. '76, Ph.D. '79) was selected as one of 37 engineering educators in the country to participate in the Society of Automotive Engineers Educational Awards Program. As part of the

award, he was a guest of the society at its Aerospace Technology Conference where he had an opportunity to discuss common interests with representatives of the aerospace industry. Soldan is on the Oklahoma State University faculty.

Jerry E. Parker (ME '72) is president of Jerry E. Parker & Associates, Inc., a new consulting engineering firm in St. Louis. The firm specializes in the design of bulk materials handling facilities.

John W. White, P.E. (CE '72), is in charge of a new regional office in Topeka of Mid-Kansas Engineering Consultants P.A., Wichita. He had been with Van Doren Hazard and Stallings Engineers for 13 years.

James M. Duncan (NE '74) just completed eight years in the Navy and has begun private practice in Williamsburg, Va., in the areas of pulmonary medicine and critical care.

John C. Mein (EE '75) has moved to Boston where he is in charge of a new Texas Instruments regional technical center. He had directed a similar center for TI in Colorado. He says he and his wife, Jackie, have tried to see everything in New England in the past 20 months, but, "It's not possible."

Fred L. Waterman, P.E. (CE '75, MBA '82), is new office engineer for the Corps of Engineers resident office at McConnell Air Force Base in Wichita. The office was recently established to manage construction of facilities to support the stationing of the B-1B there.

Danny H. Rogers (AgE '76, M.S. CE '77) has accepted a USDA fellowship to pursue a Ph.D. degree at Oklahoma State University. Rogers is Extension County Agent in Colby County and will be on study leave and sabbatical from KSU until December 1987.

William E. Vaupel, Jr., P.E. (CE, BA '77), has been promoted to director of special projects and marketing at URS Corp. in Colorado Springs. Prior to joining URS in 1983 he was with Colorado Interstate Gas Co. Vaupel is co-founder and past president of the Downtown Toastmasters Club in Colorado Springs.

Kendall W. White, P.E. (ME '79), Des Moines, Iowa, is manager of systems engineering at Compressor Controls Corp. He is former group manager for Fisher Controls International, Inc. White received an M.S. from the University of Wisconsin in 1980.

Walter W. Mau (ME '83) is a textile machinery design engineer for Automated Energy Systems, Inc., Charlotte, N.C.

Doran Z. Morgan (ME '83) is associate buyer for IBM in Lexington, Ky., moving up from associate manufacturing engineer. He formerly was with Didge Graphic Systems Corp., Emporia.

Karl D. Miller (ME '84) is in construction management for Black & Veatch Engineers and is involved in the construction of the Stanton Energy Center in Orlando, Fla.

DEATHS

Harvey W. Schmidt (CE '28), Amarillo, Tex., died in May. Mr. Schmidt taught at Oklahoma State University after graduation and then joined the Texas Highway Dept. He retired after working as a consulting engineer for 30 years, but kept working until his death at the age of 84. He and his widow, Mary (Stutz) Schmidt, lived in the Texas Panhandle for 57 years and raised three children. Mr. Schmidt was a member of Sigma Tau engineering fraternity.

Fred Roy Mouck (ME '29) died in April. He was a professor emeritus of mechanical engineering at the University of Oklahoma and a member of Oklahoma Professional

Engineers. He had been a Mason for 60 years and also had held memberships in Tau Omega, Tau Beta Pi, Pi Tau Sigma and Knights of St. Patrick.

Gerald Walter (EE '48) died July 20 in Kansas City, Kan. Mr. Walter retired in 1984 from the Kansas City Board of Public Utilities. He was a member of the Institute of Electrical and Electronics Engineers and a Navy veteran of WWII. He was also a graduate of the University of Chicago.

Christopher E. Dalton (ME '54) died May 23 in Albuquerque, N.M. Mr. Dalton was supervisor of the Advanced Systems Development Division of Sandia National Laboratories where he had worked for 28 years.

Wilbur H. Funston (ME '57) died of a heart attack in May 1984 at his home in Huntsville, Ala. He had been a space scientist for NASA for 20 years. Prior to that he was employed by a space consulting firm in Huntsville.



Engineering students were out again this year for their annual whitewash of K-Hill. They used 14 sacks of Portland cement, 14 sacks of lime, 750 gallons of water and an assortment of brooms, hoes, barrels and buckets for the cleanup of the 80-foot by 60-foot concrete letters.

Program established for in-kind gifts

A clearing house for companies wishing to make in-kind gifts has been set up by the KSU Foundation.

The system should make it easier for companies to donate equipment and for departments at K-State to acquire equipment that is available, according to Rusty Andrews, director of corporate and foundation relations.

The Foundation has prepared a book listing equipment needs for engineering and other departments. Because of the nature of the program and the heavy demand for equipment, "Engineering has the most requests in the book," Andrews said. Listed

are 127 requests from engineering out of about 200 from the entire campus.

John Walters of the Engineering Advisory Council suggested at the recent council meeting that regional representatives from industry be chosen to draw participants into the program.

Those wishing to obtain a copy of the book listing equipment needs may write to Andrews at the KSU Foundation, Hollis House, Kansas State University, Manhattan, Kan. 66506.

"We want to make this work to the benefit of industry and the University," Andrews said.

Directory follow-up now underway

All alumni should have received a request for the essential information required to assure complete data in the new Alumni Directory tentatively scheduled for release in February/March 1986. We hope everyone has replied.

"The College thought it would be appropriate to have a directory printed, with the expectation that it would be of interest and benefit to alumni," said Dean Donald E. Rathbone. "We hope you have not been inconvenienced in any way."

Publication is being handled by Harris Publishing Co., White Plains, N.Y. This company is the sole authorized agent for the production and marketing of the directory, and assumes all financial obligation,

including the compilation, editing, billing and distribution of the volume. The company will cover its costs through individual book sales to alumni only.

Alumni are being contacted by telephone, at home, for verification of the information to be printed in the directory. At this time, and at this time only, you will be asked if you wish to purchase a copy. Information supplied for the directory, including names and addresses, is strictly confidential and will not be used in any other way. The number of directories printed will be based on the number of advance orders.

Alumni who have not returned their questionnaires and are not reached by phone by the Harris firm will be listed in the directory with the information provided by alumni records if the address is current.

Be sure to complete your own information and send it in right away.

New Research, from p. 5

struction Battalion Center study on cracking and fracture of concrete; Jones, analysis of human-clothing thermal interaction. Naim Azer, mechanical engineering, NSF grant for "Enhancement of In-Tube Condensation by Doubly Augmented Tubes"; Corwin Bennett, industrial engineering, Lighting Research Institute grant for study on roadway lighting; Cecil Best, civil engineering, USAE Waterways Experiment Station grant for evaluation of research on repair of concrete structures; Gale Simmons, nuclear engineering, renewal of grant from Battelle Pacific Laboratories for beta/gamma dosimetry and beta spectroscopy; Eddie Fowler, electrical and computer engineering, Boeing and KDED grant for "Characteristics of Real Time Knowledge-Based System Structures."

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Dean of the College

Dr. Donald E. Rathbone

Director, Engineering Experiment Station

Dr. William H. Johnson

Impact Editor

Carolee Stark

Mark April 4 and 5 on your calendar right now. That's the date for Engineers' Open House. As you know, this is an excellent opportunity to see first-hand what is going on in the College and to renew acquaintances. We hope you will plan to attend the luncheon and banquet also. For reservations, you may call the dean's office at 913-532-5590.



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