

## Engine School Activities



A quintet of Sooner lovelies are these smiling candidates for Engineer Queen 1947. Bobby Jean Craig (back row, right), arts and science sophomore from Frederick, was the engineers' choice for queen. Her attendants at the gala Engineer coronation dance were (front row) Beverly Spade

(left), business senior, Tulsa, and Martie Meacham, Norman arts and sciences sophomore. Back row, Hunter McMurray (left), arts and sciences junior, Norman, and Thelma Rose Wibker, engineering junior, Shreveport, Louisiana.



PAT PAYTE, 1946 Engine Queen

### St. Pat Returns to Soonerland; Bobbie Craig Crowned Queen

March is the month of the Irish—and Engineers. It was more than 40 years ago at the University of Missouri that an engine student—more than just somewhat Irish, b'gorie—discovered that good St. Patrick was an engineer. How he did it, no one knows; but any engineer will verify St. Pat's occupation. Like all of the many engineering traditions, this one is strong and can be traced back through decades of Oklahoma University's history.

A transfer student from Missouri was responsible for inaugurating the St. Pat's celebration on the University of Oklahoma campus. That was in 1914, and since that time it has highlighted campus activity each spring.

One of the oldest and most important engineer traditions is the annual firing of a cannon, reverently named Old Trusty, in honor of St. Patrick and the engineer queen. It was many years ago that the Cannon Club—changed to The Loyal Knights of Old Trusty following World War I—was organized after a group of Sooner football celebrants had hauled an old Civil War cannon to the campus from its resting place near the Santa Fe station. Old Trusty was quickly adopted by the engineers. L.K.O.T., a mysteriously secret organization, has used many cannons through the years,

but never has failed to salute its queen when the occasion arose.

Before the first World War the original Old Trusty was buried in the bed of a creek just west of the campus. Last spring an engineer expedition to discover the grave of Old Trusty, in order to excavate the rusted remains, was unsuccessful. Makeshift metal detectors discovered tire rims, buggy frames and tin containers—but not the desired relic.

This year's celebration was one of the biggest yet. A record enrollment and genuine Irish enthusiasm made it so. The all-school engineers dance held at the South Campus on Friday, March 14, was as usual one of the year's top social affairs. Featuring it was the coronation of beautiful, Bobbie Craig (see cover picture), fine arts sophomore from Frederick, as engineer queen, and Gordon Dempsey, chemical engineering senior from Oklahoma City, as St. Pat.

The coronation dance followed the School's gala stage show Thursday night at the Sooner Theater and preceded the engineer's banquet in the Union Ballroom Saturday night. St. Pat's festivities continued until 12:01 a. m. Monday, the 17th, when Old Trusty saluted the birth of another St. Patrick's Day.

To co-operative students and faculty members goes the credit for making this engineer celebration a success.

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WILLIAM H. CARSON  
Dean of the College of Engineering

## O.U. Engine Schools in Review

### CHEMICAL ENGINEERING

Biggest news in the School of Chemical Engineering during the past year has been the addition of several new courses on the graduate level to the old curricula and the impressive increase in enrollment.

Having swelled its enrollment nearly to capacity this semester, the school now hopes that a doctoral program in chemical engineering can be offered in the near future. Director R. L. Huntington reports that the demand for graduate students still far exceeds the number the school is able to supply and indicates that the strong demand will continue for many years.

Accredited by the Engineering Council for Professional Development and the American Institute of Chemical Engineers in 1940, the University School of Chemical Engineering was the first in the Southwest to receive such recognition.

Most of the time expended by the five chem-eng staff members and the school's students is devoted to research study.

The American Institute of Chemical Engineers is the organization open to those interested in the achievements and developments in the field of Chemical Engineering. There are two branches of this organization: the student branch and the professional branch.

Coveted each year is the medal awarded the outstanding sophomore enrolled in Chemical Engineering by the A.I.Ch.E. The organization sponsors this award to encourage the beginning student to apply himself diligently to his studies while also taking an active part in extracurricular activities.

Of the many prominent chemical engineers produced at the University of Oklahoma, at least four have gained nation-wide recognition in their field. Charles Hetherington, '41ms, is in charge of gasoline plant design for Ford, Bacon and Davis, New York City engineering concern. Carl Cooper, '36bs, now is associated with the Vulcan Equipment Company, Louisville, Kentucky. Bill Herbert, '39ms, is with the Lion Chemical Company, El Dorado, Arkansas. Frank P. Vance, '38bs, assistant professor of chemical engineering at O. U. from 1942 until 1945 and later in Navy ordnance, is now in the chemical engineering department of Phillips Petroleum Company, Bartlesville.

### PETROLEUM ENGINEERING

The School of Petroleum Engineering, with 378 upperclassmen, is assumed to be the most outstanding school of its kind in the world. This assumption is drawn on the basis of the large cross

section of students that come to this school from all parts of the United States and from several foreign countries, and on the basis of the category of jobs that are filled in the petroleum industry by O.U. grads.

At the present time virtually all of the oil states are represented in the Petroleum School enrollment. Other representatives are from South American countries, Mexico, Canada and the Near East.

The University School of Petroleum Engineering differs from many other petroleum schools in its directed course of study. The University school stresses the study of fundamentals of geology and of drilling and production. Practical instructions with a reasonable amount of research has been found to be highly effective in training students for responsible jobs in the petroleum industry.

The Petroleum Engineers Club, with a local membership of 60 students, is available to petroleum engineering upperclassmen. This organization's national parent is The American Institute of Mining Engineers. Maurice Lewis Jr., Sayre, is local student president, and Wilbur F. Cloud, professor of petroleum engineering, is faculty sponsor.

Postwar expansion plans for the Petroleum School include extensive graduate research. New equipment for this research is being obtained. Dr. John C. Calhoun, Jr., associate professor of petroleum engineering, will direct most of this work.

Outstanding alumni of the petroleum school include M. Bowman Thomas, '29eng, chief petroleum engineer of Humble Oil and Refining Company, Houston, Texas; William H. Barlow, '32eng, chief petroleum engineer of Ohio Oil Co., Cleveland, Ohio, and Harrell E. Chiles, Jr., '34eng, president and general manager of an acid treating company, Western Inc., Seagraves, Texas.

### MECHANICAL ENGINEERING

The School of Mechanical Engineering, headed by E. F. Dawson, professor of mechanical engineering, has 370 upper classmen.

Of this group of upper classmen, 110 are members of the local branch of the American Society of Mechanical Engineers, a national professional organization designed to forward its members' understanding of the different phases of mechanical engineering.

Otto Doner, engineering senior of Sasakwa, presides as student president of the University branch of the society at its monthly meetings. Professor Dawson is honorary chairman. In early May, 12 other Southwestern schools will send representatives of their branches of the society to the University to be guests of the local branch. For two days two representatives from each school will give papers prepared on technical subjects in competition for prizes.

Another organization available exclusively to mechanical engineers is Pi Tau Sigma, honorary mechanical engineering fraternity. President of this organization is Frank Chuck, engineering senior of Pleasant Plain, Iowa. Wendell S. Taylor, professor of mechanical engineering, is faculty sponsor. Qualifications for membership in this organization include a 1.5 or above grade average.

The department of aeronautical engineering with headquarters at the North Campus is a subdivision of Mechanical Engineering. At the end of the prescribed course of study, a major in this field receives a degree in mechanical engineering with an aeronautical engineering option.

Aircraft designing and drafting and instrument and systems laboratories are conducted at the North Campus, but lecture classes are conducted at the Main Campus.

Two clubs are available exclusively for aeronautical engineering majors—Tau Omega, national honorary aeronautics organization, headed by student president Charles D. Newton, engineering junior of Shawnee, under the faculty supervision of Fred R. Mouck, '35eng, associate professor of mechanics, and The Institute of Aeronautical Science. The latter is a student chapter of a national society. Jack C. Bass, engineering senior of Oklahoma City, is student chairman of the University chapter, with L. A. Comp, '27eng, '35eng, director of the department of aeronautical engi-

neering, as faculty sponsors.

Outstanding alumni of the University School of Mechanical Engineering include Earl Bartholomew, '21ba, '22eng, '23eng; Charles D. Reid, '23eng, and Ingram X. Calhoun, '28eng.

Bartholomew is director of engineering research for the Ethyl Gasoline Corporation, Detroit, Michigan. Reid is chief engineer at the Horseshoe Lake Station of Oklahoma Gas and Electric Co., and Calhoun is part owner of a manufacturing company in Oklahoma City, the Calhoun Hydraulic Equipment Co. During the war his company was active in the manufacturing of airplane landing gears.

### CIVIL ENGINEERING

Degrees from the Oklahoma University School of Civil Engineering may be obtained by following curricula in structural engineering, transportation engineering, sanitary and municipal engineering or general engineering. The latter embraces the fundamentals of the other three.

Structural engineering includes studies of complete plans of bridges, building frames, arches and dams and deals with use of materials such as concrete, steel, timbers in the construction of frames and foundations.

Transportation engineering is the thorough study of traffic problems and includes promoting and planning the design and construction of highways, railroads and aircraft landing fields.

Men in the sanitary and municipal engineering (Continued on page 31)

## Engineers' Club Honors Cralle

Members of the Engineers' Club have voted Walter O. Cralle, Springfield, Missouri, the year's outstanding engineer at the University of Oklahoma. A graduating senior in mechanical engineering, Cralle was presented an award at the annual St. Pat's banquet March 15. A plaque with his name inscribed on it is to be hung in the Engineering Building.

Cralle is chairman of the Society of Automotive Engineering, member of Pi Tau Sigma, honorary mechanical engineering fraternity, was chairman of St. Pat's dance this spring and was captain of the queen's guards in 1946.

Cralle returned to O. U. in January, 1946, after spending three years in the Merchant Marines. His studies at the University were interrupted by the war in 1943.



WALTER O. CRALLE . . .  
From Springfield, Missouri, Cralle recently was voted the most outstanding engineer at the University of Oklahoma. He is a graduating senior in the School of Mechanical Engineering.

Doris Mahaffey, '47h.ec, is now teaching vocational home economics in the Tipton high school.

Treva Lynn, '47h.ec, has obtained a position on the teaching staff of Chelsea high school as an instructor in vocational home economics.

STONE-SCOUFUS: Billye June Stone, '45-'47, Frederick, and Raymond John Scoufus, '45-'47, Okemah, were married recently in Norman. Mrs. Scoufus is a member of Alpha Chi Omega Sorority and Mr. Scoufus is a member of Acacia Fraternity. The couple is at home in Okemah where Mr. Scoufus is associated in business with his brother.

BROWN-COOK: Margaret Alice Brown, '45-'47, Ardmore, and Conrad Luster Cook, '42-'43, '45-'47, also of Ardmore, were married December 30 in the First Presbyterian church at Ardmore. Mrs. Cook is a member of Pi Beta Phi Sorority. Mr. Cook is a junior petroleum engineering student and is a member of Kappa Sigma Fraternity. The couple is at home in Norman.

HALEY-McBRIDE: Jeme Haley, '46-'47, and Donald S. McBride, '38-'40, '45-'47, both of Mountain View, were married December 28 in the home of the bride's parents. The couple is at home in Norman where both are attending the University.

ANDERSON-CORNETT: Margie Lou Anderson, '45-'47, Fox, and Jack Cornett, '39-'40, '45-'47, Oklahoma City, were married recently in Oklahoma City. The couple is at home in Norman where Mr. Cornett is a senior student in the School of Engineering.

CHAMBERS-PRIER: Dorothy Gambrell Chambers, '45-'47, Oklahoma City, and Carl E. Prier, '42-'44, '46-'47, Guthrie, were married January 24 in Oklahoma City. Mrs. Prier is vice-president of the Y.W.C.A.; a member of Mortar Board; Psi Chi, national honorary psychological society; Phi Sigma, national honorary biological society; League of Women Voters. Mr. Prier is affiliated with the Congress club, debating society, and Y.M.C.A.

BROWN-LAWRENCE: Rosemary Brown, '46-'47, and Max Hood Lawrence, '42-'43, '46-'47, both of Oklahoma City, were married January 25 in Oklahoma City. Mrs. Lawrence is a member of Gamma Phi Beta Sorority. Mr. Lawrence is a member of Sigma Nu Fraternity. The couple is at home in Norman where both are attending the University.

### O.U. Engine Schools—

curriculum are trained to be consulting engineers whose duties include planning municipal improvements, water supplies, sewage disposal, paving, supervision, planning and operation of municipal services. Sanitation engineers are always in demand by state and national public health service.

Among the University's prominent civil engineering alumni are the following:

Kenneth W. Markwell, '20eng, assistant commissioner of reclamation, Department of the Interior, Washington, D. C.; John J. Bollinger, Jr., '25bs, of Bollinger Construction Company, Oklahoma City, contractors for the construction of the new O. U. Press Building; J. Ray Matlock, '25bs, director of the University School of Civil Engineering; John C. Simonson, '30bs, chief engineer of Robberson Steel Company, Oklahoma City, and

William Simpson, '36bs, director of the School of Aeronautical Engineering, University of Kansas, Lawrence, Kansas.

The school's active student-professional organization is the American Society of Civil Engineers.

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### ELECTRICAL ENGINEERING

The School of Electrical Engineering, headed by Frank G. Tappan, offers two options to its majors—electronics and communications, or electrical power.

At the end of the first semester of the junior year, each student indicates a preference between the two options and his course of study is then directed accordingly. Prior to this time subjects required of both sections are studied.

Two social organizations are available exclusively for electrical engineering majors. One of these, a student branch of the National American Institute of Electrical Engineers, is under the faculty supervision of Clyde L. Farrar, professor of electrical engineering. Organized on the campus in 1912, the local chapter devotes its monthly meetings to discussions on electrical engineering topics. Outside speakers are usually invited to these functions.

Annually in May, the Oklahoma City section of the institute is invited to attend a meeting. At this dinner meeting the students give the program which consists of talks and papers written on special research and equipment. The Oklahoma City section chooses the best three papers presented and award prizes. John C. Reiff, of Stillwater, senior in engineering, is current student president of the organization.

The other social organization is Eta Kappa Nu, a national Electrical Engineering society, headed locally by student president Clarence R. Gates, junior in engineering of Tulsa. Professor Tappan is faculty sponsor.

Both juniors and seniors are eligible for membership in the fraternity, but membership is limited to two and one-half times the square root of the number of juniors in the class at the end of the first month of the semester.

Three outstanding alumni of the School of Electrical Engineering are R. D. Evans, '14eng, '26eng; Lloyd J. Hibbard, '14eng, and Verne E. Alden, '11eng.

Evans is now a consulting transmission engineer for Westinghouse Electric Corp. He is noted for having been co-author with C. F. Wagner in writing the first book on symmetrical components. This book is used as a text in the Engineering School.

Lloyd J. Hibbard is vice-president of Westinghouse Electric Corp., in charge of railway electrification development.

Verne E. Alden, noted for work which effected

economy in the manufacture of transformers while an employee of the Westinghouse Corporation, is now vice-president of Ulen and Company and is in charge of that company's Chicago, Illinois, office.

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### SCHOOL OF ARCHITECTURE

The University of Oklahoma School of Architecture was listed among the ten most progressive schools in the nation recently by the architectural journal, *Progressive Architecture*. But receiving national recognition is nothing new to the O. U. school, which is a regular winner of awards given by the Beaux Arts Institute of Designs, to which the best architecture schools in the country belong.

The most recent O. U. winner was Otha Wolf, fourth-year student from Oklahoma City, whose designs of a meteorological station took top honors.

Chairman of the three-man committee which directs affairs of the school is Richard Kuhlman, assistant professor. Other committee members are Henry L. Kamphoefner, professor and Joe E. Smay, professor.

The school is located on the North Base. In the building which houses the drawing rooms, lecture rooms and offices are taught the basic courses, architectural design and construction, history, and electrification.

The high rank of the school is recognized throughout the nation, and a large number of the 208 major students are from out of state—from the eastern and western extremities of the United States. The heavy influx of veterans has doubled enrollment this semester over spring, 1946. Only 15 women majors are listed on class rolls.

The Architecture School is proud of a host of graduates who have made names for themselves in the professional world. A well-known Oklahoma alum is Joe M. Boaz, '40bs, Oklahoma City, whose work is respected throughout the nation. A '44bs grad is Dale C. Byrd, who is ace designer with Skidmore, Owings and Merrill, New York City. John Black, '42bs, and Charles B. Genter, '39bs, are partners of Pace Associates, large Chicago architecture firm, with which John Lattimore, high-ranking graduate of 1946, is associated. Two other outstanding former students, Cecil D. Elliott, '44bs, and Bruce Miller, '38bs, are O. U. faculty members.

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