SHAMROCK
1923
THE UNIVERSITY OF MISSOURI ENGINEERS
The 1923

Shamrock

Published by
The Students
in the
School of Engineering
on
Saint Patrick's Day

University of Missouri.
FOREWORD

As a tradition of St. Pat's day this book has grown to represent the events of the year in the School of Engineering. If, in addition, we are able to awaken a keener earnestness and loftier ideals towards Engineering, we shall feel that our efforts have been well worth while.
Dedication

This Shamrock is Dedicated to Guy Doric Newton, who, not alone by words and books, but by his own example aids materially in developing practical Engineers of large aims and high ability.
Guy Doric Newton
Man developed the art of writing, the use of metals and the idea of government almost simultaneously. This three fold development—the Dawn of Civilization—brought with it a new type of man, the Engineer.

To all appearances he has come to stay, for no matter if Civilization stumble and fall the Engineer is among the foremost to help her up and support her dragging footsteps along the path that leads ultimately to perfection.

Ours, therefore, is a precious heritage. May we take our responsibility with the utmost seriousness and pass on unsullied the legacy that has been handed to us from the past.
Classes
Civils
KNIGHTS OF ST. PAT, ’23.

BROWN, HOMER E.  
Blackwell, Missouri  
(A. A. E.)  
Just as happy as though he were married.

BUCHMUELLER, M.—“Hook”  
St. Louis, Missouri  
(Tau Beta Pi, A. A. E., A. S. C. E.)  
“Who wants to buy a good watch.”  
Says there’s not so much competition at Stephens in the afternoon.

CAIRNS, GEORGE S.—“Red”  
Huntsville, Missouri  
(A. A. E., A. S. C. E., Knight of St. Pat ’22.)  
His temperament and his hair are red like his underwear.

CANNON, DAVID R.—“Mouse”  
Elsberry, Missouri  
(A. A. E., A. S. C. E.)  
“Which circle do you mean,—this round one.”

CORDER, LEON W.  
Waverly, Missouri  
(Sigma Nu, A. S. C. E.)  
“Ask me, I don’t know.”

DAVIS, CHARLES W.—“Kewpie”  
Kansas City, Missouri  
(Tau Beta Pi, A. S. C. E., A. A. E., Q. E. B. H., Pres. Engineers’ Club.)  
Separate him from his chew and he’d starve to death.
DITTBRENNER, E. E.—“Ditt”
St. Peter, Minnesota
St. Pats Board, Chairman. Homecoming.)
"Johanna, I wish we should correspond."

EDWARDS, MOSS M.
Centrallia, Missouri
(A. A. E., Civil Society.)
"Yes, he is a real county surveyor."

FERRY, ARLOW V.
Sheldon, Missouri
(A. A. E., A. S. C. E.)
We know who’s going to be the boss of his family.

GWINN, ABNER.
Jefferson City, Missouri
(Scabbard & Blade, A. S. C. E., A. A. E.)
Sergeant of the mail carriers union.

HUFFMAN, LESTER E.
Columbia, Missouri
(A. A. E., A. S. C. E.)
The one worry of his life is collecting dollars for those hayrides and dances.

KIEFNER, EDWIN L.—‘Jim’
Perryville, Missouri
(Kappa Alpha, A. A. E., A. S. C. E., Marine Club.)
He was looking for the Marine Club out at the Shoe Factory.
KINCAID, RUSSEL G.  
Polo, Missouri  
(Tau Beta Pi, A. A. E., A. S. C. E.)  
Falls in love with Huffman's dates.

LEAPHART, F. E.  
Brookfield, Missouri  
(Tau Beta Pi.)  
He was a Freshman Engineer when most of us held up our pants with safety-pins.

McKEY, HOWARD E.  
St. Louis, Missouri  
(A. A. E., A. S. C. E., Vice-President Engineer's Club.)  
If a girl ever graced the seat of his "butterfly" flower, it must have been late at night.

MAUPIN, CARMAN J.—"Jack"  
Bloomfield, Missouri  
(Acacia.)  
"Goody"!!!

MERRIDITH, W. K.—"Kenny"  
Kansas City, Missouri  
(Tau Beta Pi, President A. S. C. E., '22-'23, A. A. E.)  
Uses his trunk as a file for his love letters.

OGLE, CHARLES F.  
Hematite, Missouri  
(A. A. E., A. S. C. E., Track Team.)  
Picks his dates at the Cafeteria.
ORNBERN, B. J.—‘Benny’
Moberly, Missouri
(A. A. E., A. S. C. E.)
Bought a diamond Christmas and has been broke ever since.

RIPPSTEIN, EDWIN E.—‘Rip’
Herman, Missouri
(University Band, Shamrock Staff, A. A. E., A. S. C. E.)
Its a shame he has to go to school, he might have worked for a living.

ROBERTS, HARRY E.
Independence, Missouri
(Dana Press Club, A. A. E., A. S. C. E.)
He got ambitious enough to raise a moustache like Ike’s.

STEWART, ROBERT R.—‘Spiggins’
Festus, Missouri
(A. A. E., A. S. C. E.)
If you don’t find him at home, call Read Hall.

TROWBRIDGE, HAROLD A.—‘Trow’
Adria, Missouri
(A. A. E., A. S. C. E., Track, Cross Country.)
Bob Simpson should be proud of him.

SMITH, F. WILKEN—‘Ike’
Moberly, Missouri
(Dana Press Club, A. S. C. E.)
He enjoys Freddie’s joke.
TURNER, E. E., JR.—"Jack"
Jefferson City, Missouri
(Civil Society, A. A. E.)
"Now, when I was a chainman on the Katy—"

JUNIORS

BURGESS, ROY A.
Joplin, Missouri
(Lambda Pi Epsilon, Band, Y. M. C. A., A. S. C. E., De Molay.)
One slept in Heat, but we don't know which one dropped the course.

BURGESS, RAY E.
Joplin, Missouri
(Lambda Pi Epsilon, De Molay, A. S. C. E., Y. M. C. A., Band, University Orchestra.)
We spoke to Roy but think it was Ray.

DAY, RALPH A.
Mexico, Missouri
(Civil Society, Masonic Club.)
"Prefers a one horse town to the Law Barn."

FIETSAM, I. A.
St. Louis, Missouri
(Civil Society.)
Soft soaped St. Louis for experience.
HAUSMANN, PAUL
Kansas City, Missouri
(Delta Tau Delta.)
Never too busy to smile at the girls.

HUBNER, C. L.
King City, Missouri
(Delta Tau Delta, A. A. E., A. S. C. E.)
Makes a good ad for Arrow collars.

LANIER, R. E. H.
Columbia, Missouri
(A. S. C. E.)
Honest Fellers! No guy can kick me in the back of the stomach.

LAWRENCE, HARVEY
Clarence, Missouri
From his picture evidently he can't handle Horse Shoe.

LEAVEL, WILLARD H.—'Bill'
Kansas City, Missouri
A straw vote only shows which way the hot air blows.
LOGAN, E. H.—"Ed"  Columbia, Missouri
(A. A. E., A. S. C. E.)
Wadded the cannon with tissue rolls.

LYNCH, FRANCIS JOSEPH—"Frankie"  Holden, Missouri
(A. A. E., A. S. C. E.)
Burns with "Hig"—"nuf sed."

MORTOLA, MANUEL M.  San Nicolas, Argentina
(Cosmopolitan Club, Spanish Club.)
If I cannot marry money I must therefore go to work.

REECE, J. WESLEY  Stanberry, Missouri
(A. S. C. E., A. A. E., St. Pats Board.)
He'd make a better duck than hen; he doesn't advertise himself.

REEDY, C. P.—"Pat"  Kansas City, Missouri
(A. A. E., A. S. C. E.)
"I'm Queen of the May."
ROYSTER, ED.—“Eddy Oyster”
Independence, Missouri
(Sigma Alpha Epsilon, Tomb and Key, A. S. C. E.)
If Lelia would cry, would Ed Roy-stir?

WATSON, CHAS. J.—“Leatherneck”
Balboa Heights, Canal Zone
(A. A. E., A. S. C. E., Marine Club, Rifle Team ’21-’22-’23.)
Has Valentinato beat a mile—specialy as a Toreador.

WELLS, J. RUSSELL JR.—“Josh”
Tuscombía, Missouri
(Civil Society, Vice Pres. Junior Class.)
What’s the joke? I’ll bite.

WILLIAMS, H. FIELDING
Albany, Missouri
(A. A. E., A. S. C. E.)
Bill Hart has nothing on me.

WILLIAMS, L. H.
Albany, Missouri
(A. A. E., A. S. C. E.)
“Don’t call us brothers.”
THE TEARFUL TALE OF THE TABOO TROUSERS

A bunch of the boys were standing around
In front of the building one day,
When a bird tried to hand our traditions a jolt,
And there was the devil to pay.

Up stepped Charlie Davis, a ten minute egg,
Who is famed as a Star chewing fool;
A guy we revere as a real Engineer,
And the true figure-head of the school.

He was generally dressed in his khakis and boots,
With a slight trace of Star on his chin,
And a fine growth of healthy roan whiskers that showed
He shaved once in goodness knows when.

But the morning in question he sported a shave,
And was wearing, with manner Satanic,
An outfit that left us all gasping for breath,
And eventually started a panic.

Beneath the accustomed sombrero, he wore
A neck-tie suggestive of Erin,
And a clean flannel shirt, not the one with the dirt
That the "Kewpie" was usually wearin'.

But the crowning insult was his corduroy pants—
Valentino has made them the rage—
Pearl buttons, and red velvet bell bottom flares,
Like the Greasers wore in some past age.

We admit that the costume was snappy enough
To have easily won him a queen.
The layout, in fact, drew a withering look
And a scathing remark from the Dean.

We decided that here was a good place to stop
Any leaning to tea-hound ambitions,
And set an example, lest others might try
To defy our established traditions.

So the gang, armed with paddles, shillalahs, and shears,
Parked in front of the Dug-out that noon,
Where the "Kewpie" was wont to inhale his bean soup
After wiping the grease from his spoon.

He appeared on the scene, and the action was keen.
Of his trousers we left him the seat.
And we only left that for a target, to see.
Who says that revenge isn't sweet.

The trousers we cut into hundreds of strips,
To wear on the left coat lapel.
Alright boys, who's next? Just remember the text.
We'll make it exciting as Hell.

—Hick
Electricals
CALVERT, J. F.
Columbia, Missouri
(Tau Beta Pi, Eta Kappa Nu, A. A. E., A. I. E. E., Knight of St. Pat. '21, Editor Shamrock '22.)
His heart was carried away to Bryn Mawr in a wardrobe trunk.

ASENDORF, FIELDING A.—"Azey"
Carthage, Missouri
(Eta Kappa Nu, A. I. E. E., Shamrock Staff, Glee Club, Knight of St. Pat. '22.)
Bennie. The only one in Southern Spain.

KNIGHTS OF ST. PAT, '23.

BENNINGTON, ROBERT J.—"Bob"
Kansas City, Missouri
(Tau Beta Pi, Eta Kappa Nu, A. I. E. E., A. A. E.)
He has a girl in every port.

BROWN, HARVEY LEWIS—"Brownie"
Odessa, Missouri
Eta Kappa Nu, National Sec.-Treas. of A. C. E.)
Too much Oklahoma “mountain dew” befuddled the minutes of the National Convention.

BRUNER, EARLE C.
Bolivar, Missouri
(Eta Kappa Nu, A. I. E. E., A. A. E., Glee Club.)
He entertains his classmates by singing to them—ask Mr. Newton if he doesn’t!

CASE, J. W.—"J. I."
King City, Missouri
(Eta Kappa Nu, A. A. E., A. I. E. E.)
Another one of our married men.
COULTER, WILBUR T.—"Colder"
Sweet Springs, Missouri
(De Molay, University Band, A. I. E. E.)
A real jazz artist.

FINDLEY, RUSSELL L.—"Busty"
Meadville, Missouri
(Tau Beta Pi, Eta Kappa Nu, Sigma Xi, A. A. E., Knight of St. Pat. ’22.)
The last phase of a Herbicide ad.

FISHER, ERNEST A.—"Fish"
Columbia, Missouri
(Tau Beta Pi, A. A. E.)
Has a most luxuriant crop of red whiskers.

FOLTZ, J. P.
Dearborn, Missouri
(A. I. E. E.)
He hides his light under a bushel.

FUQUA, B. ELLSWORTH
Laddonia, Missouri
(Eta Kappa Nu, A. I. E. E., A. A. E.)
If silence were golden there would be another ’49rs rush.

GENTRY, PAUL E.—"Doc"
Webb City, Missouri
(A. A. E., A. I. E. E.)
He never misses a dance but we wonder about his Heat B problems.
HENTSCHEL, E. E.—"Hench"
Springfield, Missouri
(A. A. E., A. I. E. E., Spanish Club, Sigma Delta Pi.)
Our Snapshot Bill.

HOWARD, PAUL P.—"Pe Pe"
Moberly, Missouri
(Eta Kappa Nu, Phi Mu Alpha, A. A. E., M. S. U. Debating Society, U. Band, Bus. Mgr. Shamrock, Student Council '21-'23, All Senior President.)
He wears his brains in the seat of his pants.

JONES, GARRY
Lewistown, Missouri
(A. A. E., A. I. E. E.)
Makes as much noise as a fog horn under no steam.

LINNEY, RALPH W.—"Linney"
Platte City, Missouri
(Eta Kappa Nu, A. I. E. E., A. A. E.)
One would almost suspect him of being married.

LOCKWOOD, LUTHER E.—"Dock"
Linn, Missouri
(Eta Kappa Nu, A. I. E. E., A. A. E.)
How did he ever find his way out of Chicago last summer?

McCORMICK, P. W.—"Mack"
St. Louis, Missouri
(Masonic Club, Vice Pres. A. A. E., Treas. A. I. E. E., Vice Pres. Senior Engineers.)
Steinmetz No. 2?
MILLER, CHARLES RAYMOND—“Hick”
Savannah, Missouri
(A. A. E., A. I. E. E., Eta Kappa Nu.)
The hero of the Engineer’s football team.

NORWINE, A. C.—“Pinky” “Percy”
Flat River, Missouri
(De Molay, A. A. E., A. I. E. E.)
He drinks neither mule nor wine.

THORNTON, PAUL
Webster Groves, Missouri
(A. A. E., A. I. E. E., Glee Club.)
An expert on the Vickers machine gun.

WILSON, DONALD
Monroe City, Missouri
(A. A. E., A. I. E. E.)
He will never incriminate himself by speaking before he thinks.

JUNIORS

BARR, NEIL K.
Graham, Missouri
(Eta Kappa Nu.)
He doesn’t look like this every day.

BRITTON, JACK—“Spike”
Kansas City, Missouri
Hasn’t the pugilistic ambitions of his namesake.
BUCHANAN, J. A.—"Buck"
Cape Girardeau, Missouri
(Acacia.)
Wonder if he sleeps in Electric Lab?

CARLSTEAD, O. G.  Kansas City, Missouri
"O. G. ain't it L."

FIETSAM, RAYMOND K.
St. Louis, Missouri
(A. I. E. E., A. A. E.)
Might carry but can't lay bricks.

FISHER, BENJ. A.—"Ben"
St. Louis, Missouri
(A. I. E. E., A. A. E.)
There's hopes for a man who when sober will not acknowledge that he resembles the S. A. T. C.

HANK, HERBERT H.—"Hank"
Holden, Missouri
(A. I. E. E., A. A. E.)
He's an atheist, he doesn't believe in Santa Claus.

HELMKAMP, WM. E.—"Bill"
Wellington, Missouri
(A. I. E. E., A. A. E.)
He who throws water on my bed Will get this flat iron on his head.
HODGE, DRYDEN—“Dryd”  
Kansas City, Missouri  
(Rifle Team—'21, '22, '23.)  
Give him a little authority and he will work himself to death.

HUGHES, ALBERT A.  
Columbia, Missouri  
(Band, A. A. E.)  
“But I’m no kin to Danny.”

JACKSON, CHAS. E.—“Jack”  
Hannibal, Missouri  
(A. A. E.)  
Night watchman at Stephens.

JORDAN, R. H.  
Columbia, Missouri  
Where did he get the name “Wart”?

KIESLING, PAUL WILLIAM  
Tipton, Missouri  
(A. A. E., A. I. E. E., Treas. Junior Eng., Shamrock Staff.)  
He needs a new grindstone.

MAXWELL, MARVIN V.—“Wooly”  
Carthage, Missouri  
(Eta Kappa Nu, Student Senate, Shamrock Staff, A. A. E., A. I. E. E.)  
Go way! Nova Scotia is an Opera Singer.
NEAL, HARRY N. 
(Sedalia, Missouri)
(A. A. E.)
He was a good man but Cale done him wrong.

O'BANNON, S. P.—“Shorty” 
(Garden City, Missouri)
The perfect lover; makes Romeo look like a bashful boy.

ORTON, JAMES T.—“Jimmy” 
(Lamar, Colorado)
(A. A. E., Rocky Mountain Club.)
That cute little boy that chews nasty tobacco.

PINNEY, LOUIS E.—“Judge” 
(Bosworth, Missouri)
Ponderous as Gibraltar and as thick.

POLLEY, GEORGE W.—“Briskette” 
(Oregon, Missouri)
(A. A. E., A. I. E. E., Shamrock Staff.)
“You mold them in the form of briskettes.”

ROMBACH, G.—“Fritz” 
(California, Missouri)
Used transit for field glasses.
SMITH, BUFORD R.—"Smithy"
Edwards, Missouri
(A. A. E., Rifle and Pistol Club, Rifle Team '21-'22.)
"Grind! Grind! Grind! Will I never be sharp?"

SWEARINGEN, C. B.—"Cliff"
Kansas City, Missouri
(Beta Theta Pi, A. A. E., A. I. E. E.)
"This hair net proposition is something terrible."

WATKINS, W. B. KYLE
Clarksburg, Missouri
(A. A. E. Eng. Sign Painter.)
Roomed with Hodge for one semester.

WOLLMAN, JEROME R.—"Jerry"
Jefferson City, Missouri
(A. I. E. E., A. A. E.)
Will he ever learn to cock the cannon?

YOUNG, LAWRENCE
St. Louis, Missouri
(A. A. E., A. I. E. E., Rifle Team '20-'21.)
As shooting coach he specializes in bobbed hair.
"IF"

If you can run a speed curve singlehanded,
Or take three meter readings all at once;
If you can grin at brushes to be sanded,
Or wop a job, and not be just a dunce;
If you can set your brushes for a compound,
And not have commutation go to pot;
If you can find an open, short, or dead ground,
And not mind working on a line that's hot.

If you can run a line where you are told,
And have it stay where it's supposed to be;
If you can read your data when it's "cold,"
Or, failing, show originality;
If you can take a job and never leave it,
Nor even whimper till it's put across;
If you can take an order, well as give it,
And not feel secret pity for the boss.

If you can labor soaked in perspiration
When holding superheat sixty-one;
If you can find a sort of satisfaction
In knowing that you've got a job well done;
If you can be an esquimo and nigger,
And try to be a gentleman to boot;
If you can use a guessin' stick to figger,
And know coefficient from a root.

If your calc and hyperbolics are forgotten,
And algebra just serves you fairly well;
If your drafting and your lettering are rotten,
And your Pender's always handy by to tell;
If you can play the game dead on the level,
Nor flinch, e'en tho the going's mighty hard;
If you hold fear of neither man nor devil,
But know yourself, and trust the living God.

If you can climb a stool and not feel lowly,
Nor have your head turned by a swivel chair;
If you can come to your decisions slowly,
And make your rulings always just and fair;
If you can give yourself and all that's in you,
And make the others give their own best, too.

If you can work with men of brawn and sinew,
And like the men, and make 'em like you, too;
If you can boast a college education,
Yet, if you've got a sheepskin, can forget;
If you get a living wage for compensation,
And give a little more than what you get;
If you can meet with triumph and disaster,
And treat them without favor, nor with fear,
You'll be a man, my son, and your own master,
But what is more, you'll be an ENGINEER.
Mechanicals
KNIGHTS OF ST. PAT, '23.

CROOKS, WILLIAM E.  Leeton, Missouri
Industry reaps its own reward.

DRYMON, FLOYD—'Happy'
Willow Springs, Missouri
"How did you know they call me 'Poodles' at home?"

ENGLISH, SAMUEL H.  Macon, Missouri
(St. Pat's Board '22-'23, Chairman A. S. M. E., A. A. E.)
He'd look almost as cute as "Kewpie" in bell bottom corduroys with pearl buttons.

GOLLADAY, H. DAVID—'Dave'
Holden, Missouri
(A. S. M. E., A. A. E.)
As meek and inoffensive as an Ingersoll watch.

HIGGINBOTHAM, RAY—'Hick'
Fertile, Missouri
(A. A. E., A. S. M. E.)
Speaking of Spanish athletes—?

NIENHAUS, T. B.  Perryville, Missouri
(Glennon Club, A. S. M. E.)
Substituted scientific shoveling for the pitchfork method.
JAEGGER, ROY H.
St. Louis, Missouri
(Alpha Chi Sigma, Pres. Eng. Club '21-'22, A. S. M. E., Knight of St. Pat. '22.)
"Who said this was a one horse town?"

JUNIORS

BRAECKEL, A. B.—"Brek"
Joplin, Missouri
(Phi Kappa, A. S. M. E., A. A. E., U. L. B.)
Campaign manager for Fisher.

EDSCORN, G. E.—"Ion"
St. Louis, Missouri
"If you put anything in the Shamrock about my girl I'll get St. Pat's Board to censor it."

LEE, MOU
Peking, China
(A. S. M. E., A. A. S., Chinese Students Club.)
"Desist—You cannot paddle a Christian gentleman."

LEWIS, MARSHALL V.—"Chip"
Knox City, Missouri
(Phi Gamma Delta, A. A. E., Sect. Junior Eng.)
Half soles his shoes with Phi Gam steaks.

SHOEMAKER, O. M.
Kansas City, Missouri
(A. S. M. E., A. A. E., U. L. B.)
Goes to school every fall and spends the rest of the time resting.
SCHEMMER, H. E.—"Hank"
St. Charles, Missouri
(Varsity Football, Track, and Tennis.)
Another Academic Engineer.

SCHWEIGER, R. A.
Kansas City, Missouri
(Phi Kappa, A. A. E., A. S. M. E.)
Wonder if he's an Engineer?

WALLACE, J. F.—"Wally"
Maryville, Missouri
(A. A. E.)
Wears glasses—mostly for Camouflage.

WILEY, W. M.—"Bill"
Jefferson City, Missouri
(A. S. M. E.)
"Now come in early tonight William."

WINDLER, RAY
Barnett, Missouri
That answer is wrong because I didn't get it.
Chemicals
FINLAYSON, ALEX S.—"Fin"
Carrollton, Missouri
(U. of M. Band, Knight of St. Pat's '22.)
Ballyhoos for a side show with a clarinet.

KNIGHTS OF ST. PAT '23.

DAVIS, HOWARD
Harrisonville, Missouri
(Alpha Chi Sigma, A. A. E., American Chemical Society.)
He seldom speaks, and when he does he says very little.

SPENCER, EBER A.—"Spence"
Columbia, Missouri
(Alpha Chi Sigma, A. I. E. E., Co-op Crew.)
He would make a better Commerce student.

SPITZER, G. E.—"Jack"
Malden, Missouri
(Kappa Alpha, St. Pat's Board, A. C. E., A. A. E.)
If hard looks could kill, Jack would have been accused of murder long before this.

JUNIORS

EISEN, NORBERT A.
Sweet Springs, Missouri
(Ch. E. A., A. A. E.)
"I move"—and they did.

ELLIOIT, J. CARL
Fulton, Missouri
(A. A. E., A. A. C. E.)
"I don't feel well today. Guess I'll go to Hannibal."
FISHER, CHAS. RAYMOND—"Fish"
Cape Girardeau, Missouri
Has learned to drink tea divinely.

JEANS, J. B.  Hannibal, Missouri
(A. A. E.)
Sure I'll take a blind date,—deaf and dumb too.

KATZ, DAVID  St. Louis, Missouri
Mr. President in my countree we do not baddle.

McCUTCHEAN, GEO. L.—"Mac"
Hamilton, Missouri
(A. A. E.)
Has no effect on litmus.

SACHS, GEORGE LEONARD
Newark, New Jersey
An expert on snipe hunting.
THE SHAMROCK

SOPHOMORES.

F. Whaley, President.
W. J. Hodge, Vice President.

Artrip, F.
Armstrong, R. J.
Brown, R. P.
Baker, H.
Burney, R. A.
Baker, C. W.
Byram, F. F.
Byrley, M. M.
Barnes, D. T.
Berghorn, H. G.
Bauer, L.
Beckman, J. R.
Byars, L. T.
Broder, J. B.
Cisell, J. L.
Cassell, S. B.
Cunningham, T. D.
Everhart, H. B.
Ernest, C. E.
Farwell, R. W.
Fisher, C. N.
Francis, M. C.
Greim, C. C.
Glattie, H. A.
Graham, S. P.

Geery, C. R.
Glover, A. B.
Gilliam, C. E.
Gessing, T. J.
Handley, P. J.
Holman, H. B.
Hardaway, L. M.
Hinckley, S. H.
Hausman, F. W.
Hannegan, J. M.
Houck, L. J.
Hooge, W. J.
House, J. W.
Howk, A. E.
Johnson, J. O.
Jacob, G. S.
Kinkade, H. J.
Kansteiner, H. H.
L'oyd, H.
LaPierre, C. W.
Margulis, E. S.
Mathers, F. E.
Middleton, R. A.
Mays, L.

McLennan, T. A.
Munch, C. D.
Moling, W. E.
Metcalfe, S. L.
Miller, R. E.
McDaniel, O. S.
Murch, A. D.
Nicery, A. R.
Nicolson, G. A.
Nolte, T. C.
Oliver, J. V.
Peter, F. B.
Phillips, D. E.
Porter, R. E.
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Organizations
C. W. DAVIS.

The Engineers' Club is the melting pot of all the students in the School of Engineering regardless of department, creed, social affiliations, or scholastic standing. By common consent and tradition, every student who enrolls in the school automatically becomes a member and continues to remain a member until he has shown that he is undesirable as a part of the life of the student body of the school. This is a unique arrangement, for at practically all the other universities, membership is elective. At the University of Missouri, however everyone has an equal chance from the time he enters as a freshman, and unless he proves himself to be a slacker, he continues in good standing.

The chief function of the Club is the maintenance of a morale that is peculiar to this school and which is demonstrated on every hand by the exhibition of good fellowship among the students. At regular intervals, or sometimes on special occasions, the Club meets for the purpose of transacting business, listening to lectures, or attending a "smoker." What is there that lends more to a feeling of fellowship than getting together to crack a few jokes, sing a few songs, or bum a cigarette from the poor devil who is so unwise as to flash a freshly opened pack of Camels. Then after the meeting, there is "Civil, Electrical ———" and every one goes home feeling that life isn't so bad after all—that there is something in it besides the monotonous grind of work.

Oh yes, there are the black sheep in the school who are of the opinion that such things are of no benefit to the student—that they are a pure waste of time and
energy. Did such men ever stop to think that the success which they hope to attain after their college days are over, will be based upon the friends which they make. Then let them realize that the friends they have, are made by a show of common interest in their co-workers' activities, and they will realize the wonderful training they are getting by taking an active part in the activities of the Engineers' Club. "What good is a friend if you can't use him" is a statement worth remembering, and the ability to make those friends is an asset worth as much as all the knowledge to be found in the classroom. Only by mutual assistance can a group of men expect to reach the goal of their ambition, and we, of the School of Engineering, are an ambitious group who should stick together for our individual and collective welfare.

The Engineers' Club is the backbone of the student body of the school, all of the other organizations being subsidiary to the will of the Club. The activities of the school cannot be successfully conducted by an oligarchy, so it is up to each and everyone of the members of the student body to take an active part in saying how things should be run.

The three subsidiary organizations are the Shamrock Staff, the St. Pat's Board, and the Campus Squad, which exists as a means of carrying out the will of the Club.

To the Shamrock Staff is delegated the task of preparing the annual publication, the "Shamrock." The officers of the staff are elected by the members of the Junior class at the end of each year, usually upon the recommendation of the outgoing officers. This is only just and proper, for the capabilities of the candidates can be better judged by those who are in contact with them. In order that the work may be perpetuated by trained men, a small force of Juniors and underclassmen are kept on the job so that the organization may make the best use of cumulative knowledge of years past. The Shamrock is growing better year by year, which fact is evidence of the success of the system used in running the publication.

To the St. Pat's Board is given the job of putting on the St. Pat's celebration. There are five Senior members and three Junior members who are elected to the board by a vote of the members of their respective classes, the three Junior members automatically remaining on the Board throughout their Junior and Senior years. There are also three Sophomore and two Freshmen members who are appointed by the upperclassmen on the board. The St. Pat's Board is a group of students who by virtue of their interest shown in the activities of the school, are deemed worthy of bearing the responsibility of looking after the details of making the necessary preparations for the St. Pat's celebration. They have always performed their duties well as evidenced by the success of our twenty-one St. Pat's celebrations.

The Campus Squad is the disciplinary organization whose duty it is to see that the necessary steps be taken to show the stragglers the errors of their ways. This is a thankless job and also one upon which depends, to a large extent, the morale of the student body. Up until the time of the first celebration, a freshman has no conception of the real spirit prevailing in the school, and so it seems that the most effective method of instruction is by use of our old standby, the paddle. May the Campus Squad always perform its functions diligently.

So, it can be seen that the Engineers' Club is the trunk of an animated and growing structure, nourished by the enthusiasm of the student body, and kept intact by the bond of good fellowship. The lessons we learn by our intimate associations, and by our mutual interests, will grow more dear as the years pass by, and miserable will be the man who leaves without feeling the magic touch of the staff of "Old St. Pat" as he says, "I dub thee Knight of St. Patrick! Arise, Sir Knight!"
F. A. Asendorf

P. P. Howard

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University of Missouri Chapter.

Objects.

The objects of this Association shall be to raise the standards of ethics of the Engineering profession, and to promote the economic and social welfare of Engineers.

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Iota Chapter established June, 1911.
Colors: Navy Blue and Scarlet.

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From Alpha Chapter.
R. A. Mueller

Frater in Facultate.
Professor Mack M. Jones

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TAU BETA PI.

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Honorary Engineering Fraternity.
Founded at Lehigh University, June, 1885.
Charter granted in 1902.
Colors: Seal Brown and White.

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Miss Aileen Case
Queen of St. Patrick’s Hall

Many a colleen is pretty and bright
Many can dance and all,
    But just one a year,
    And she is a dear,
Is the Queen of St. Patrick’s Ball.

So here’s to the Queen, The Engineer’s Queen,
The Queen of St. Patrick’s Ball;
    May the saints in her honor,
    Send blessings upon her,
And may St. Patrick send most of all.

-J. P. C.
1923 CONVENTION OF ASSOCIATION OF COLLEGIATE ENGINEERS.

The fourth annual convention of the Association of Collegiate Engineers was held at the University of Oklahoma, Norman, Oklahoma, February 15th, 16th, 17th, 1923.

The national president, H. L. Leonard, was unable to attend, so the national vice-president, G. A. Heap took the chair. The national secretary-treasurer, H. L. Brown, was present.

The delegates were slow in arriving, and Thursday morning was spent in registration and assignment to rooms. The delegates were apportioned to the various fraternities and everything was done to make them feel at home. This same spirit was shown to the delegates throughout the convention.

Dean Felgar of the School of Engineering made the opening address, welcoming the delegates to Oklahoma University, and expressing thanks to the Association that Oklahoma was allowed to entertain the convention this year.

The business enacted by the convention was mostly routine dealing with the rate of dues for the ensuing year, the future distribution of the delegates’ expenses, and the expansion policy to be followed this year. Mr. G. A. Heap was elected President of the organization for 1923-1924 and Minnesota University was selected as the place for the 1924 convention.

The Oklahoma University chapter was holding its annual St. Pat’s celebration. The delegates were the guests of the chapter at its annual smoker, open house, dance and banquet. They held their knighting ceremony at the close of the banquet. St. Pat crowns the Queen, and she in turn knights the eligible guards, using a slide rule as her sceptre.

The national secretary-treasurer was asked for a brief history of the organization, and the national president afterwards made a few remarks relative to the future of the organization.

The Schools represented having chapters of A. C. E. were:

Rolla School of Mines: W. P. Gatts, C. E. Slover.
University of Tennessee: E. O. Eichenberger.
University of Minnesota: H. R. Langman, H. E. Peckham.
Iowa State College: R. L. Wright.
Washington University: Shartel.
University of Colorado: Beverage.
University of Oklahoma: C. G. Rouse, W. L. Cornelius.
University of Arkansas: C. E. Coker, Jack Booker.
THE SHAMROCK

HONORARY KNIGHTS.

WILLIAM E. PERSONS.

Colonel Persons left Gordon Military Academy in 1898 for service in the Spanish-American War. In six months time he rose to a lieutenancy and since then has risen to the rank of colonel.

After the Spanish-American War he served in the Philippines, on the Mexican border, and in China. He served in the Eighth Division during the World War and in 1919 came to the University of Missouri as Professor of Military Science and Tactics.

He has proven himself a friend of our institutions and traditions, and we take pleasure in announcing him Knight of St. Patrick.

LLOYD E. JONES.

Major Jones entered the University of Missouri in 1907. He was a student until 1911 at which time he became a student in the Special Preparatory School for the Army at Washington, D.C., and in October of that year became a Second Lieutenant in the Field Artillery.

Since then he has served at Fort Sill, in the Philippines, and at various officers’ training camps in California and Texas. In April 1919 he left as Office Chief at Washington, D.C., to become Commandant of the Field Artillery Unit at the University of Missouri.

It is a pleasure to see him become a Knight of St. Patrick.
HONORARY KNIGHTS.

John E. Cornelius.

Mr. Cornelius came here in September 1908 from Fayette, Missouri. He was the janitor in the main Engineering building, but spent his spare hours in the electrical laboratory, which at that time was very meagerly equipped.

Although he knew nothing whatever about electrical apparatus he began to pick up information bit by bit, until when the department began to grow, he was given charge of the electrical laboratory altogether.

He has always been interested in our St. Pat's day celebration, and is ever willing to lend a helping hand. Consequently we are glad to welcome him as a Knight of St. Patrick.

Jasper R. Cornelison.

On November 22nd, 1906, Mr. Cornelison came here from Centralia. He was janitor of the Annex, and in addition had charge of all the laboratories.

Two years later he was given charge of the mechanical laboratory only, which had practically the same equipment that is in it now. This was a new experience for him, but he quickly familiarized himself with the work and equipment, and has efficiently carried out his duties ever since.

He is ever our friend and willingly gives his assistance whenever possible. We are glad to make him Knight of St. Patrick.
ENGINEERS IN ATHLETICS.

Sam Graham is the only engineer on the Varsity this year. He starred in the Freshman squad, but was handicapped by minor injuries until the latter part of the season. We are expecting great things of him next year.

Hugh Nisbet, cross country, is a first year man and is hitting true to expectations. He placed first in the two mile against Nebraska, and was the first Missouri man in, in the meet with Kansas, Homecoming.

Harold Trowbridge, M man in track, is specializing in cross country after having completed a successful year as a distance man. He won first in the mile, in both the Oklahoma and Kansas meets.

Chester Baker is pounding out the mile and half mile at a good clip. He is a first year man and from all appearances will be a strong contender in the valley.

T. E. Donehue is looming up good as a vaulter. He has reached eleven feet and from all reports will soon be making the half.

Of the three engineers, Ogle, Poage, and Trowbridge, who made the trip to California, Trowbridge is the only one out for track. The three lived up to engineering ideals and made a good showing. Ogle placed second in the discus, which was won by "Brick" Muller of California.
We have traveled enough on chance and wild promises. We must know our Course. The establishment of this course is in the hands of the engineers. They have developed the science of life in both its social and industrial phases. They must bring us stability.

THE ECONOMICS OF SHOCK.

Late in the summer of the year nineteen-twelve this world received the first of a series of shocks such as man has never before experienced—save Golgotha.

The shock of the cross is still felt today, but for several centuries its effect has been chiefly spiritual. The shock which first shook the earth eight years ago was chiefly commercial; but the recurring blows of increasing force have struck awake the emotions, intelligences, interests and ambitions of all men.

What the future result (there can be no final result) of these eight years of shocks will be, no one can foretell in detail. We already know they have changed the whole trend of human thought, so that popular beliefs of a decade ago appear now archaic and obsolete.

The spirits of men are more at war today than ever during the recent years of battle. Yet the world has awakened. He fights on because the great price already paid makes him rightly demand an adequate reward.

His demand can be met in proportion as he recognizes the teachings of our engineers; those men who have established the fact that our interdependence of life requires a unity of effort based on exact application of economic stability.

Thru the engineer's precise and tangible analyses of energies he has been able to formulate on a working plan the indivisibility of economic forces, the interrelationship of all activities, and so to give us a definite conception of the science of life.

It is the duty of the engineer, as well as his opportunity, to produce progress out of shock. This stupendous undertaking he has accepted.

Consequently, both our sense and our safety impel us to turn to the engineer to bring us back to economic sanity.

EDITORIAL.

Although we are accustomed to think of the engineering profession as one comparatively new, if we stop to think for a moment, it is easily seen that ancient civilizations left their records in their literature, their fine arts, and their feats of engineering.

The earliest engineering feat of magnitude was probably accomplished by the Egyptians, in about 5000 B.C. At that time, nearly seven thousand years ago, they changed the course of the Nile river in order to found the city of Memphis. From 4000 B.C. to 2800 B.C. this same people built their great pyramid tombs, the largest of which is that of Cheops. This pyramid covers about thirteen and one-half acres of ground, its length on each side at the base is seven hundred and sixty-four feet, and its perpendicular height is four hundred and eighty feet. The stony in this massive monument was transported in blocks about thirty feet long and five by four feet in cross section, for a distance of over five hundred miles, and the building of it occupied the labor of 100,000 men for twenty years. They also built many temples and public buildings which were wonderful in themselves, and which required great engineering skill and ingenuity.

The Babylonians had no stone with which to build, so they discovered the art of brick-making. Their work was very massive, and probably their most notable achievement was the Great Wall of China. It was built by the first emperor of the Tsin dynasty about 220 B.C. as a protection against the Tartar tribes. It extended across the north of China for a distance of 1500 miles, over mountains and through valleys, to the sea. It has been estimated that the man expeditions that wall is equivalent to the labor necessary for building every city and town in the United States today.

About the same time that the Chinese were building their wall, the Romans were displaying feats of engineering that were to place them among the foremost of the ancient builders. They were the first Sanitary Engineers and they quickly outstripped the other peoples of the world in the art of road building. They have some 3800 miles of paved roads to their credit, much of which is yet serviceable. Great aqueducts were built so that their capital city, Rome, could be more adequately supplied with water; twelve were built, altogether, and two of them carried water for an average distance of 52 miles. The cement that the Romans used in their construction work is apparently good today, and it is superior to any which can now be produced.

During the Middle Ages engineering did not disappear, as might be expected; instead, its attention seemed to be turned to architecture, as shown by the numerous magnificent cathedrals and churches.

Thus engineering, down to very modern times, has been civil. But with a rising scientific and industrial age, other branches of engineering have developed, and we now have electrical, mechanical, chemical, and agricultural engineers to fill the places made necessary by specialization. Possibilities are very favorable for even increasing the number of branches of the profession.

Therefore it is easily seen that the engineer has always been a factor in the ad-
vancement of civilization. Above all men, he leaves his mark. Should he not have an education that qualifies him to be placed above the classes? Should he not be skilled in the classics and have a well developed aesthetic sense, and not be merely content with a technical course? There is danger of specialization—his is by nature a broad vacation, should he not educate himself that way?

**ALUMNI NOTES.**

Helmreich, L. W., '11; Chief Mechanical and Electrical Engineer for the State of Missouri Public Service Commission. Promises his assistance towards a new Engineering building.

Moodie, J. W., '21; With the Building Products Co., Columbus, Ohio. He edited the 1921 Shamrock.

Hatcher, M. P., '20; Shorty is with Burns and McDonald in Kansas City and has sent us a good deal of dope for this year’s book. He edited the '20 Shamrock.

Miller, L. H., '12; Pres. Power Machinery Co., Kansas City, Mo. He and A. G. Miller, '10, brought about fifteen boosters to Columbia to see Missouri beat Kansas last Thanksgiving.

Whitlow, J. A., '11; With the Pine Bluff Co., Pine Bluff, Arkansas. Is very much interested in St. Pat's, and gave us some sound advice about keeping down expenses.

Skelly, J. W., '96; Civil Engineer in St. Louis. He is so loyal that he has sent a son to Missouri University who hopes to follow in his father’s footsteps.


McLedom, C. E., '08; With the Philippine Refining Corp., Cebu Cebu, P. I. Sends us two copies of the “Life of St. Patrick.”

Wall, E. E., '84; Is the Water Commissioner of St. Louis. Sends a check for R. F. Grady, St. Louis, and T. C. Hughes, Tulsa, who are also members of the class of '84. They must have turned out some real engineers in those days.

Roehry, E. A., '11; General Mgr. of the Cairo & St. Louis R. R., the Cairo City Gas Co., and the Cairo Electric and Traction Co., Cairo, Illinois. He is here this St. Pat’s day and wants to play once more in the Engineer’s Band.

George, B. J., '20; In the Power Sales Dept. of K. C. Power and Light Co. Is pursuing his legal education and is seriously contemplating entering the Bar. Edited the '19 Shamrock.

Ketter, E. F., '08; Is at Gary, W. Va. He says there are no Missouri men out there, so he gets pretty lonely sometimes. We don’t blame him.

Armstrong, F. C., '82; Is a Civil and Mining Engineer with his office in Boulder, Colorado. Regrets “that old age and natural limitation prevent my contributing to the joy of nations with any jokes.”

Lumpton, H. F., —; With the Rock Island Lines at Des Moines, Ia. He wishes us greater success than ever before.

Drum, R. A., '13; Secretary and Manager of the Ft. Smith Ice and Cold Storage Co., Ft. Smith, Ark. He is here for this celebration for the first time in eleven years.

Wheeler, W. C., '21; With the General Electric Co., Schenectady, N. Y. Also sends some good dope. He was an associate editor of the '21 Shamrock.

Duren, G. M., '16; Is with the A. T. & T. Co., New York City. There are two other Missouri Engineers with him, C. F. Craig, and J. W. Creasey.

Savage, P. S., '15; Is with the Donner Union Coke Corporation in Buffalo, N. Y. He wants some Missouri Engineers to break into the coke business.

Oonk, W. J., '22; Is with the Union Electric Light and Power Co., St. Louis, Missouri. Sends us some jokes for the Shamrock.

Harris, Berney, '22; Is with the Tennessee Electric Power Co., in appraisal work. Sends some good suggestions for St. Pat’s.

Van Houten, L. P., '20; With the A. T. & T. Co. at Overland, Mo. He is glad to hear from us and sure wants a Shamrock.

Brandt, A. U., '99; With the Pacific Gas and Electric Co., San Francisco, Cal. Dick Vaughan, '00, is with him and he hears from Milo Brinkley at Washington occasionally.

Woods, J. L., '21; With the Empire District Electric Co., at Joplin, Mo., as Plant Accountant. Took unto himself a wife last June and says he is leading a double life now.

Godwin, G., '22; Manager of the Godwin Realty Co. If he does as good a job with it as he did managing the '22 Shamrock we’d like to have some stock in his concern.

Long, J. H., '16; With the State Highway Commission in Willow Springs, Missouri. Gives us the names of five other Missouri men who are also down there with the Highway Commission.


Welch, N. H., '22; With the K. C. Power and Light Co., Kansas City, Mo. Says that since he has been married the time passes extremely rapidly. The Mrs. probably sees that he gets plenty to do.

Crichton, L. N., '06; With Westminster in Pittsburg, Pa. Wants a copy of the Shamrock in time for their meeting in Pittsburg. Good for you fellows. We’re for you.

Porzelius, A. F., '09; Is Supt. of the City water Co., Chattanooga, Tenn. Regrets that he can’t get back on St. Pat’s day and says he will have to celebrate it alone since there are no other Missouri Engineers there.

Palmer, J., '22; With the Kansas City Light and Power Co., Kansas City, Missouri, and is enjoying his work. Is here for the dance; well we didn’t expect him to stay away.
In Memoriam

William C. Jackson
Class of 1921
Died in Hannibal, Missouri
August 25, 1922.

Almer E. Schubert
Class of 1921
Died in Cicero, Illinois
December 7, 1922.
Blarney
SHAMROCK ALMANAC.

January
1. 47 B. C. Cleopatra first uses Palmfig Soap and becomes beautiful.
2. 1922. Kewpie Davis swallows cud.
12. 1469. Invention of the rubber band. 1923. After 24 years of total abstinence, Russell Findley has first date.
22. 1904. Man at a picture show actually laughs at a triangle play and is mobbed. 1945. Dittbreker appears in citizens clothes.

February
7. 1923. Happy Drymon applies hair tonic.
9.
11. 1923. Happy Drymon finds new hair.
13.
15.
25. 1923. Happy Drymon finds new hair.
26. 1923. Souvenir hunter steals Happy Drymon's new hair. Drymon breaks down and is taken to hospital.

March
7. 55 B. C. Caesar killed. 416. Cotton gin discovered to be non-alcoholic. 1916. A. Lincoln Hyde finds five unidentified kip on second floor Switzler Hall.
17. 907. St. Patrick accidentally steps on angleworm; the Dublin Evening News reports him as having killed 5,000 snakes.

April
1. 1549. Mr. I. Newton invents the Calculus and Technical Writing. 1920. McCaustland actually seen to speak to an Engineer on the street.
24. 4000 B. C. Eve falls for Adam. 1923. Huffman declares he will enter no more contests.

May
6. 1857. Invention of chewing gum. 1920. Spauling coughs but once before cracking a joke; class fails to laugh.
17. 1921. New Ford attachment found to actually do all that is claimed for it. 1922. Height of ball on Jesse Hall found for 67456th time, and found to have settled .0000123 inches.

June
July
15. 1404. Galileo drops two weights off of Tower of Pisa, injuring two students who were following his experiment. 1923. Jackson and Jordan, having scabbed all summer, finished their forty-fourth plate in Graphics.

August
11. 1823. Ben Franklin learns to fly kite. 1893. Edison invents the electric light.
25. 635. Mohammed writes Koran. 1919. Maxwell develops a squint that is to make him famous.

September
31. 1414. Stanislavski Zodiewicz dies at Pryzmsl. 1914. Happy Newton is found to be no relation of Isaac Newton.

October
5-12. 1923. Davis' disguise discovered.

November
7. 1567. Geraniums found to grow in North America. 1624. Invention of R. O. T. C.
19. 1492. Columbus discovers America. 1923. O'Bannon discovers the difference between German and French ohm.

December
15. 1745. Suspenders invented. 1885. First suspension bridge built. 1924. McKey forgets to swear for a half hour.
20. 1923. Engineer actually admits that the Shamrock roast concerning him was true.

—F. P. G.
Remember?

When Kewpie did this?

And the gang did this?

And finally?

When the "six ton percolator" ran amuck?

When the "gigantic electrical choir leader", which was to give all the varsity songs and yells, put one over on Edcorth and sang in Chinese?
When Merridith's rooming house burned he started out to look for another one to park in and after a short search he found a place that looked pretty good. The lady took him upstairs and showed him a room full of female possessions. After talking up the merits of the room for several minutes the lady added this: "A girl is occupying this room at present but if you decide to take it, of course she will move." Kenny merely replies "Oh that will be perfectly all right."

Dean McCaustland says there is not a word of truth to the rumor that Ray Windler will take Prof. Weinbach's place on the engineering faculty next term.

One Stephens College girl to another, "Do you see that tall, handsome man over there in the corner, well that is Milton Buchmueller. I think he is the grandest man and he says the nicest things about Stephens College girls too."

If there was a toll gate on the Fulton road Moss Edwards would be broke all the time.

Dittbrenner to Edscorn at the Oklahoma convention, "The next time that building comes around I'm going in the thing."

The Katy Railroad has started legal proceedings against Kenny Merridith for plowing up their right-of-way. Merridith says he doesn't remember any thing about it but Buchmueller was along and it is expected that he will be an important witness for the railroad company.

After Russell Kincaid took his girl to the Tavern for Dinner one Sunday evening he was telling Moss Edwards what a swell place it was, and from his conversation it seems that the thing that impressed him most was the fact that they served water there in brass bowls.

Nienhaus: "Mrs. Hurty, I want a book on Spark Plugs."
Mrs. Hurty: "Get a copy of the Globe-Democrat."
OUR PHYSICS QUIZ.

1. What is the potential energy when you drop a perpendicular from a height of fifteen feet? When you drop a course? A remark?

2. What is the resistance of a bed spring coil? Why?

3. Determine the stresses in the members of a Wheatstone bridge. Give the answer in foot pounds, watts, and fractions of a watt to the nearest decimal.

4. Given the time T and the number of crumbs, determine the currant in an ordinary cookie.

5. It is stated on page 269 of the text book that heat is produced by work. What amount of work is required to produce enough heat to evaporate the perspiration produced by work.

6. If the coefficient of friction is 98.7, what are the chances of sliding through a course in Mechanics?

7. What is the difference between hysteresis any hysteria? Illustrate with a diagram. Should Listerine be applied?

8. If a double shunt wound motor generates fifteen horsepower, what is the field strength of a mule? In this case what is the relation of the harness to the lines of force?

9. If your girl has blond bangs and brunette ear puffs, where should the switch be placed? Be very careful of this answer.

10. If the period of osculation is represented by the formula \( (3\sqrt{t}) \), where \( \frac{2R}{T} \), R. is the resistance and T is the time, how long should it take you to tell her good-bye when R is practically zero?

(Answer any six of these questions and number 10. Everyone should know the answer to number 10.)

—F. P. G.
THE SHAMROCK

PUBLIC SPEAKING

OUR OWN

SCHEDULE OF COURSES

N'THEM TH' IRISHMAN
CRACKED TH' LAWYER
WITH A ROCK

TECHNICAL WRITING

INTERIOR DECORATION

COMBINED COURSE
HYDRAULICS
AND
APPRECIATION OF
MUSIC

PERMUTATION
AND
COMBINATION

DON '03

Page 69
THE ENERGY OF SUSTAINED INERTIA.

Out of the Realms of Things as They Should Have Been, into the Vacuity of Things as They Were passes the question pertinent to the age and impertinent to the reader, “What is the energy of sustained inertia, or, what is the work required to remain asleep?”

This having passed quite beyond the knowledge of McKey and even Royster, both of whom have taken post-graduate laboratory courses in the subject, the problem was at last solved through the untiring efforts of J. Pinky Norwine. Let Mr. Norwine himself explain his theory, which rivals that of Mr. Einstein’s in profoundness and importance.

“Let inertia be represented by $I$. But I am capable of no work, so that the equation of inertia or $I$ may be written, $I = OW$, where $W$ is work. Intergrating both sides with respect to $W$, we have $W = O + \text{Constant}$. This constant, I have found through much study, represents the energy required to snore, so that if you do not snore, no work is required to remain asleep.”

Mr. Norwine says that he has substituted many values in this equation, and that the answer comes out to a gnats ankle every time.

—F. P. G.

In an Engineer’s Club meeting Charley Davis called for Jack Spitzer’s Freshman brother to stand up so those present could see him. Little Jack stood up and some one shouted out “He looks just like Jack.”

Jack waived his hand frantically at him and finally yelled out “My God sit down.”

Prof. Belden in Technical Writing class had just been speaking of sentence structure and mentioned redundancy.

Wollman waves his hand and says “Professor Belden what is this rotundancy anyhow?”

Huffman wants to know how to get sparkless computation.

“Weinnie”: “Mr. Royster what will happen if you put a iron pole across the wire and the track?”

Royster: “You get shocked.”
THINGS THEY ARE NOTED FOR:—

Buchmueller—Is the best customer at Stephens College.
Turner—The school's best checker.
Davis—Is the most unpopular man among sponsors of the honor system.
McCormick—Can talk more and say less than any one.
Wright—Hates Technical Writing worse than any other engineer.
Drymon—Has the least hair.
Katz—The best target at the Engineering Club Meetings.
Howard—The most popular with the women.
Lynch—Knows the least about Electrical Machinery.

THINGS WE LIKE TO HEAR.

"Dopey"—Take the next eighteen problems.
"Weenie"—We will have our lecture from five to six thirty tomorrow.
"Bugs"—We'll have a little two hour quiz tomorrow instead of the regular computation period.
"Daddy"—Think gentlemen, it won't hurt you.

Dr. Hedrick—"Young man, do you know anything about this course?"
Hinkley—(calculus) "A little sir, what would you like to know?"

Westfall—"What are you in College for?"
Zilles—"That's what Dad's always asking."

Prof. Belden—In those days they didn't wear pants, they wore stockings.

Brown—(Economics) After long lecture: "And now you are free to ask questions."
John Reese—"What time is it?"

Prof. Belden—"No one ever heard of sentences without a predicate."
Golladay—"I have it Prof."
Prof.—"What is it?"
G.—"Thirty days."

Bennington to Bruner—"Does the barber charge you full price for a hair-cut?"
Bruner—"Worse than that, old man. He considers it such a joke that he adds an amusement tax."

Ingold—"Find the least common denominator of—"
Voice from rear—"You don't mean to say that old thing's lost again?"
PARDON ME BUT IS YOUR NAME KATZ?

"DAD" HE WORKS WHILE WE SLEEP.

IT'S ROY JAEGER!

PERSONALITIES

PINKEY NORWINE SAYS FREDDY CLEARS HIS THROAT EVERY NINE SECONDS. — HE CLOCKED HIM

JACK SPITZER GETS A HOUSE WITH HIS LUMBERJACK SHIRT

SAY MISTER YER FLAGGIN!
Prof. Belden in Technical Writing: “What would you say to this sentence? On the thirtieth of February the sun was brightly shining.”

Rector: “John, you should love your neighbor.”
Johnny: “Yes sir, I tried to, but she wouldn’t let me.”

SAMPLE QUESTIONS FROM THE HEAT B. FINAL.

I. If it takes the “greasy” thirty minutes to serve ninety pairs of ante-bellum eggs, how long will it take two union brick layers to mine and perforate two tons of Swiss Cheese?

II. A water tube boiler has an equivalent evaporation of 3.5 pounds per square foot, and a grate area of 1200 square feet. Assuming ten pounds of coal per k. w. h., how old is the fireman?

III. Two men on bicycles twenty miles apart, start riding toward each other at the rate of 10 m. p. h. A fly leaves the nose of the first, and flies to the second and back to the nose of the first at the rate of 20 m. p. h. How far has the fly traveled when the men meet?

IV. A fish’s head is four feet long, its tail is as long as its head and half of its body; its body is as long as its tail and head together. How long is the fish?

TRY THIS ON YOUR KITCHEN CABINET.

“Oh Mr. Golladay!” “What Mr. Crooks?”
“Ain’t you glad your whole dam life’s not spent at books?
Every morning, noon and night,
We are working with our might,
If you let up for a day you get the hooks.
Oh Mr. Golladay! Oh Mr. Golladay!!
Do you think your education’s worth the grind?
When your sheepskin’s in the frame,
Then for money, love or fame,
Would you work like this Mr. Golladay?”
“No I wouldn’t Mr. Crooks.”

Maxwell was a railroad section foreman. One day he sent the roadmaster this telegram: “No. 6 did not whistle. Send me a new hand-car.”

JUST A COMPARISON.

A slide rule is something like a woman. It is slippery and no one ever learns how to manage one. It has a variety of figures which are more or less true. Its beauty is only skin deep, but like the girls at a dance, it has sines on its back. Men are crazy until they get one, and after they get it they wish they had saved their money.
Your Shamrock Negative is registered for your future use.

Blackmore Studio

Phone 35

Young men!

There is satisfaction in knowing you are wearing the newest styles. Wear Florsheim Shoes and be assured

Sapp Bros.

Trunks Gladstones Suitcases

Parkers

Headquarters for traveling equipment of all kinds.

16 N. 10th St. Phone 53
Higbee & Hockaday Clothing Co.

One-price cash clothiers
The home of
HART, SCHAFFNER & MARX CLOTHES FOR 29 YEARS

THIS MAN'S BEEN TO COLUMBIA.

"Is this called a fast train?" demanded an impatient passenger.
"It sure is," answered the conductor proudly.
"Well, in that case would you mind my getting off to see what it is fast to?"

—Pipe Progress.

YOU CAN ALWAYS GET WHAT
YOU WANT WITH QUICK SER.
VICE AT

The Model
Lunch Room

$3.00 MEAL TICKETS FOR $2.50

11 NORTH NINTH STREET

Morris Bros.
Billiards

A PLACE TO REST
YOUR MIND FROM STUDIES.

EXPERT BARBERS
WILL GIVE YOU CAREFUL AND
PROMPT SERVICE

NINE FIFTEEN BROADWAY
THE SHAMROCK

WE'RE READY WITH MEN'S OXFORDS

Miller's
(REAL MEN'S SHOES)
BROADWAY AT EIGHTH

THE GIFT SHOP
919 BROADWAY
IS THE LOGICAL PLACE TO BUY GIFTS. THERE'S A REASON WHY.

DIAMONDS
WATCHES
JEWELRY
LEATHER GOODS
NOVELTIES

YOU WILL FIND THE BEST CANDY in every form and the latest drinks and best served meals at

The College Inn
"Jimmies"

916 BROADWAY
MOSCOW BROS.

DECORATIONS FOR EVERY FUNCTION.
Novelties of unique design.
Cards for all occasions.
Remembrances that will last.

Scott's Book Store

920 BROADWAY
PHONE 356 BLACK
The Recreation Parlor
is always close for a few games before or after the show

SODA
CANDY
CIGARS
BILLIARDS
LUNCHEONETTE
ACROSS FROM THE COLUMBIA THEATRE

SAM SMOKE  PRUETTE ANDERSON

HENNINGER’S
FOR
GIFTS IN
FINE JEWELRY
AND
DIAMONDS
813 BROADWAY

YOU MAY
WEAR GREEN
But
you won’t look GREEN
in one of our
SOCIETY BRAND
SUITS

Page 81
Yea Combine! Fight 'Em!!

"Say, Bud," 'member what the Ags had in the parade last year, in spite of the rain, about all of the specie of B. Academs in general? Well,

The Farmers' Fair

This year is going to be the best that you will ever have the privilege of seeing, longer, better, peppier than ever. We have the stuff all boiled up and in wait for two years. It's coming off this year to the minute, up-to-date and with more side-splitting, dog-gone fun than ever before. Be there with your gal. Don't miss the fun.

The Parade—Two Miles of Fun and Frolic.
The Barbecue—Yum! Yum!
The Girl Shows—Oh Boy!
The Side Shows—a Laugh With Every Ticket.
The Follies—Aintcha Glad You're Living?
The Minstrels—Just Hear Those Coons.
The Hot Dogs—'Nuff Said.
The Ice Cream Cones—Delicious.

And The Famous Dance Hall

Friday Afternoon and Evening
April 6, 1923
TIME IS A RELATIVE MATTER ANYHOW.

Neither Sambo nor Rastus could read the time of day—nor anything else, but Sambo had a nice, big Ingersoll, which he exhibited with a great air of superiority.

"What time am it?" said Rastus.
Sambo hesitated and then extended the time piece, says, "Dar she am."
Rastus looked at it carefully, and said, "Dam if she ain't."

—Pipe Progress.

SYKES & BROADHEAD CLOTHES
ARE THE ONES TO WEAR MARCH 17TH

SEE OUR NEW SPRING SUITS.
The values are remarkable—
More for your money
Than ever before
One Sunday two lovers went to church. When the collection was being taken up the young man explored his pockets, and finding nothing whispered to his sweetheart, "I haven't a cent, I changed my pants."

Meanwhile the girl had been searching her bag, and finding nothing, blushed a rosy red, and said, "I'm in the same predicament."

—Kreolite News.

"Don't make fun of the rough-dressed man—
You really hadn't oughter,
For many an honest heart beats beneath
Shoes that won't keep out water.

—Virgil's Aeneid.

You know why we'll launder sixty-four shirts to pay for this little space? Simply out of thanks to a khaki-shirted gang who couldn't be surpassed when clean linen was in order and whose appreciation of our service has been a constant gratification to

DORN-CLONEY LAUNDRY
AND DRY CLEANING CO.
OH YES, OUR TELEPHONE IS STILL 116.
THE "MAG" OF THE
VARSITY ACTIVITIES MOTOR!

The tales the Palms booths could tell of the plans concocted there make "Room 202" as silent as King Tut's tomb in comparison. The Palms has been the "mag" behind most Varsity movements. The man who hasn't enjoyed the excitement of these varsity movements hasn't any more red corpuscles than a chicken has instep.

The Engineers have been in on most of these movements. That's why saying the Palms is the "mag" of the Varsity movement is appropriate in THE SHAMROCK. We hope your visits to the Palms have been pleasant ones and will make pleasant memories and that you will look forward next fall to the return of those Knights of St. Patrick who have learned the ideal place to make plans, take dates, and break the monotony. All is summed up in the Varsity refrain.

JUST SAY PALMS

"A humble Varsity Institution on the popular side of Conley Ave."

The Tavern Billiard Parlor

Where Service Reigns Supreme
Basement of the Daniel Boone Tavern

Joe Akers
FOR THOSE WHO ARE STUDENTS IN THE UNIVERSITY there is the advantage of the Co-op's personal, courteous service. They find satisfaction in patronizing a student-owned and student-operated institution which returns to them the profits made during the year.

But leaving the University to take up their life work does not mean that students no longer may keep in touch with the Co-op—the mail territory of the Co-op is limitless. An order by mail is considered as promptly as a personal call.

THE UNIVERSITY CO-OPERATIVE STORE
BASEMENT JESSE HALL

WESTINGHOUSE HEATING APPLIANCES
WESTINGHOUSE MAZDA LAMPS
EDEN WASHING MACHINES

JOHN L. PLATT
Electric Shop
Buy your electrical devices from an electric shop

PHONE 829
17 S. 9TH STREET
Mistress of Farmhouse—Yes, I can give you a job. You may gather the eggs if you are sure you won’t take any.

Hobo—Youse could trust me wid anyting lady. I was the manager of a bath house for fifteen months and never took a bath.

—Kreolite News.

PENNANTS PILLOW COVERS

We can furnish you with films and finish them for you in the best possible way.

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AND NEWS

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PRINTING
WILL WORK HARD FOR YOU

Printing is the greatest business assistant in
the world—if you will let it help you to its
fullest.
A proper use of printed forms will speed up
work and cut down mistakes.
When you put printing to work as advertising
you are on the road to greater sales and a
bigger business.
We know that printing can help a business
grow bigger and better—we have seen it hap­
pen time and again.
If, as printers, we can help you in your busi­
ness, it will indeed be a pleasure.

J. GUY McQUITTY
"QUICK PRINTER"

A violinist entered a little music seller’s shop in London.

"I want an E string please," he remarked to the man behind the counter.

Producing a box the latter said: "Would you mind pickin' one out for your­
self sir, I 'ardly knows the 'es from the shes."

—Kreolite News.

MEATS
McADAM & BERKEBILE
MODERN SANITARY REFRIGERATION
Phone 188
Dodge Bros. Motor Cars Make Satisfied Customers

JOHN N. TAYLOR

Best of everything for your motor car

A cockney and his American friend were walking down the street of an American town one night when an owl set up his ancient “W-h-o! W-h-o! W-h-o!” The Englishman asked, “What is that?”

“Oh, that’s an owl,” answered the American casually.

“Well,” stormed the insulted Englishman, “I know it’s an ‘owl. But what the ‘ell is it that’s ‘owling?”

—Kreolite News.

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Columbia’s Oldest Shoe House

THE HOUSE

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AND

GENUINE SATISFACTION

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and
"The fountain where friend meets friend."

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Finis
We wish to take this opportunity of thanking several contributors who are not engineers.

Florien P. Gass, Editor of the Showme, offered several articles. Although he is not entered in the Engineering School he is taking several engineering subjects and expects later to be entered here.

Wiley Padan who drew last year's cover was prevailed upon to again draw us a cover. He lived up to his usual high standards.

Dan Hughes who was Art Editor of the Shamrock for the two past years drew the cartoons and was of great aid in making up the book and in giving general advice which his experience had taught him.

The Shamrock Staff.
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