

FRATECH



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THE FRATECH

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The Fratech

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NEWARK TECHNICAL SCHOOL AND COLLEGE OF ENGINEERING

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The Staff

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LEADERSHIP

The month of February is unquestionably bleak, cold and dreary. Winter evidently, in her artful way chooses this, the shortest month, to expend the balance of her crude energy. If Mother Nature accepted our censure of this season of the year, Winter's ghost would hang from the top-most branches of the highest tree on the mount, there to be slashed by Spring's torrential rains and burned by Summer's torrid heat.

Cheerless, yes, but Nature probably realizing her mistake has attempted to rectify it for us Americans, and we glorify the names of the Father of our Country and the Great Emancipator, born in this gloomy month.

When the twenty-second or twelfth of February is brought to our attention, we usually think of a holiday—a rest from work. There seems to be very little thought of the character of the men whose birthday these dates commemorate; the work these men did and the obstacles they overcame.

George Washington, the dignified Virginian raised in semi-ease and comfort, had most of the necessities of life in those days. He learned the surveying profession, worked at it for a while and then left it to fight the cunning Indian and later the oppressors of our liberty. Acknowledged for his power, his ability to think and to overcome obstacles, he was made Commander-in-Chief of the Colonial Army. Our school histories give us very little of his life up to this time, but from this period on, we may characterize him as a great man.

On that eventful Christmas Eve, he knew that the English and Hessians were imbibing freely, so he led his small army of volunteers across the Delaware, through massive cakes of ice and a cold wet sleet and the following day won the decisive battle at Trenton. Only a leader could have performed this feat.

Again at Valley Forge, when the poorly clothed, undernourished and underpaid men complained of their condition, Washington went out under the trees and prayed. He then came back and talked to his men. By his mildness, calm courage, prudence, firmness and perseverance he caused them to accept their fate with a smile and carry on. Surely, he was a leader of men.

He accepted the Presidency of the United States and at the second presidential election he desired to retire, but yielded to the solicitations of the people and served four years longer.

His last words before he died were characteristic of his greatness. "I die hard, but am not afraid to go." The whole nation mourned his loss and he amply deserved the immortal epitaph: "First in peace, first in war and first in the hearts of his countrymen."

From the mountains of Kentucky came our most loved leader—Abraham Lincoln, that big, uncouth and poorly dressed man.

With our night schools for the foreign born and institutions of higher learning, it is hard to realize the hardships Lincoln underwent to get an education. He studied for years under candle light into the late hours of the night, fighting against failure and overcoming every impasse. He must have been a superman.

After years of study he was licensed to practice law. Later he was elected president of these United States and served for five years. He was shot on April 14, 1865, by the assassin Booth, and expired the following day. In his death America lost a great man.

When we think of anyone undergoing the hardships this lonely soul endured to acquire an education and when we vision him writing that masterpiece of modern discourse, the Gettysburg Address, we must acknowledge him a leader of men.

It is not necessary to emulate these men, but we should learn some things from their lives and profit by them. First, give the other fellow the respect you wish accorded yourself. The ditch digger is a man, nevertheless; the fool may have some good qualities and the man with diverse opinions has convictions, too. Secondly utilize your leisure to the best advantage. Remember, the idler of to-day may be the beggar of to-morrow and almshouses are built for idlers. Lastly, rule failure; don't let failure rule you. Obstacles should give us the incentive to spell success and not defeat. If the ladder to success is built strongly enough, the rungs of failure will withstand the load of ambition.

A. E. W.

FACULTY NOTES

Mr. Weir is still down at "Tech" and many of the former students are always welcomed by him. He remembers most all of his students and can call the greater number of them by name. This puts a personal touch in the school work and very often memories of school days are revived.

Mr. Barbehenn is more of a popular instructor than one would be led to believe. Students who have studied under him all praise him highly. He is a bridge designer for the Central Railroad, and we often wonder if we would give instructions on bridges. We have also often wondered what "informative doubles" or "singletons" were.

Mr. Koshkarian is famed for the following phrase at examination time: "You may use your text-book, notebooks or anything you may have except your neighbor's head." How many students recall hearing it?

In talking over the Newark Automobile Show it was mentioned that Mr. Heilman is in the market for an automobile. He expressly stated, that he preferred a Velie minus the reverse gear. Does he expect to make any trips to Green Pond?

Mr. Boyle, our instructor in accountancy, says he has been lying awake nights, at the beginning of the new term, trying to think of what he is "going to do" to us during the coming term. We wonder if that was the reason or if he was still thinking of his spare tire and tools.

Mr. J. Landers, instructor in Mechanical Drawing, is now the "Outside Plant Engineer" for the Telephone Company. He expects to take part in the Fraternity Show.

Mr. Entwisle must be commended for the fine showing that the College of Engineering basketball team has been making, which is due to his untiring efforts.

Messrs. Bauder, Heilman and Netschert are busily engaged in promoting the Fraternity Musical Show.

Mr. Bauder is a very fine pianist as all who went to the Alumni Fraternity Banquet will remember. Mr. Heilman is a very good speaker and Mr. Netschert is the vocalist. Messrs. Heilman and Netschert are very well known to all students and they are very popular.

Mr. A. Echenfelder was appointed Borough Engineer for Glen Ridge on January 1, 1927, and we all wish to extend our best wishes for his future successes. The 1928 Civil Class had anticipated his instruction in "Structures" and are sorely disappointed that he will not teach next year. From the Seniors we hear he has an able successor in Mr. Daybert, a graduate of M. I. T.

BEGINNING RIGHT

Maiden Aunt—And what brought you to town, Henry?

Henry—Oh, well, I just came to see the sights, and I thought I'd call on you first.

FAMILIARITY

"I didn't get the number of it, but the car that hit you was a chummy roadster, wasn't it?"

"Chummy! I'll say it's chummy. It was down-right familiar, that's what it was."—*Wall St. Journal*.

A charming young girl was dear Helen,
In her home town she was quite the bellen—
She was proper, all right,
When the lamps were alight,
But out on the porch—there's no telen.



THE HUDSON RIVER BRIDGE

By WILLIAM DARLING, '28

(Author's Note:—This article is based on current designs and dimensions, some of which are subject to minor changes and are not to be regarded as final. The structure is to be erected by stages, this article dealing with the last stage.)

Due to the fact that motor traffic in the metropolitan district has increased so greatly in the last decade it was decided that a highway crossing over the Hudson River was rapidly becoming a necessity. In view of this, the necessary traffic censuses and studies of all highways and ferries were made to determine the volume and kinds of traffic to be served by the bridge. A suitable site was found, having its location in the vicinity of 178th and 179th Streets, Manhattan, and Fort Lee, New Jersey. Owing to the great length of unsupported span and the unusual amount of clearance above the river, a suspension bridge was decided upon as being the most feasible from the structural as well as the aesthetic standpoint.

This bridge is to have a clearance of 208 feet above mean tide at mid-span and a span of 3,500 feet between towers, thus giving the structure the distinction of being twice as long as the Philadelphia-Camden bridge over the Delaware River, which is now the longest in the world, having a suspended span of 1,750 feet.

The Main Span

The span is to be of the double deck type, carrying highway traffic on the upper deck and electric railway traffic on the lower deck.

The highway deck will be occupied by three roadways, two of which are to be each 24 feet wide and separated by a 40-foot roadway, each being separated from the other by a curbing. This division of space provides a total of four lanes of fast-moving vehicles east and west on the side roadways and four lanes of slow-moving or truck traffic on the center roadway. Sidewalks will extend along the sides of the bridge.

The lower deck will be in two sections each consisting of a cantilever bracket 38 feet wide and

carried at the bottoms of the stiffening-trusses after the fashion of an inverted T. Each bracket will accommodate a two-track electric railway with emergency platforms and footwalks.

The Suspension Cables

The supporting cable to be used will be one of two types, namely, the eye-bar chain or the parallel wire cable. Should the eye-bar chain be used, it will be composed of heat-treated steel eye-bars varying from 62 to 70 or more feet in length, 18 inches wide by $2\frac{1}{4}$ inches thick and linked together by 15-inch diameter pins forming a chain nearly a mile long. A cross-section of the chain would show an area approximately 12 feet square occupied by the links. Two of these chains are required. They will be spaced 104 feet center to center and will pass through the towers at elevation 590 feet, thence descending into the anchorages which are to be 4,800 feet apart. They will support the entire bridge, both mainspan and side-spans, at intervals of 60 feet by means of suspenders which are connected to the floor-beams with 16-inch diameter pins.

In case the wire cables prove the more satisfactory, there will be two 36-inch diameter cables on each side of the bridge spaced 104 feet apart transversely and 7 feet apart vertically. With this arrangement the suspension of the span will be substantially the same as with the eye-bar chains, excepting that where eye-bar chains are used the suspenders will also be eye-bar chains and where the wire suspension cables are used, wire rope suspenders will be required.

The Towers

The towers are to be of steel skeleton construction, incased in concrete and faced with granite. They will have a height of 666 feet and will be

75 feet by 215 feet at the base. Each will have two arches, the lower arch being 150 feet high and giving a two-legged effect while the upper arch will be over the roadway and have a height of 230 feet. These towers will be erected on concrete bases which rest on bed-rock. Solid rock was found at elevation minus 100 on the New Jersey side.

The Anchorages

The New Jersey anchorage will be effected by tunneling directly into the solid rock of the Palisades. Great steel-girder grillages will be erected at the bottom of these tunnels. The anchorage-chain eye-bars will be pinned into this grillage. The tunnels will then be filled with concrete for a distance of 140 feet. This leaves the ends of the anchorage chains projecting a few feet from the concrete and permits the fastening of the suspension cables as they are placed.

The New York anchorage is somewhat different, due to solid rock being too low to anchor into directly. This condition will require the construction of a huge block of reinforced concrete, firmly set into rock and rising to an elevation suitable to receive the bridge-seat of the side-span as well as to give sufficient weight to the anchorage to resist the pull of the cables. The block to be constructed will be some 250 feet in length by 160 feet wide at the top, and tapering to 124 feet at

the base, and will have a height of 125 feet. The grillages and anchorage chains will have practically the same arrangement as that described for the New Jersey anchorage. The highway will occupy the top surface of the anchorage while the railways will pass through in tunnels.

The Approaches

The New Jersey approach will be made through a rock cut on an easy descending grade to the bridge, and will be 1,959 feet in length. A spacious circular plaza will be placed to form the intersection of the approach with an existing highway.

The New York approach will be a viaduct which has a light, ascending grade to the bridge. The viaduct will be of concrete, faced with granite. The total length of this approach is to be 1,484 feet.

Mr. O. H. Amman, Bridge Engineer of The Port of New York Authority, is the designer of the bridge. The details of the design are being worked out in their Bridge Department. All architectural treatment is being done by Cass Gilbert.

The estimated cost of the project is put at from 60 to 70 millions of dollars. This money is to be obtained by tolls levied upon those using the bridge.

There isn't much to life but this:
A baby's smile, a woman's kiss,
A book, a pipe, a fire, a friend,
And just a little cash to spend.

HONOR AMONG HUSBANDS

It was their first separation and he promised faithfully, when he started in the morning on a twenty-mile automobile trip to another town, that he would return in time for dinner at seven o'clock.

But seven o'clock found him still absent, and the clock kept steadily on until the hour of ten was registered, and still no husband.

At last the now frantic bride sent telegrams to five of his friends living in towns that he might pass through, asking: "Is John spending the night with you?"

The husband reached home at midnight with a broken automobile trailing behind the wagon that had brought him home.

A few minutes later one after another the answers to the five telegrams arrived. Each one said: "Yes, John is spending the night with me."

The age of loyalty has not passed by.

Two gentlemen of the Emerald Isle were discussing things musical when suddenly Pat asked

"What musical instrument do you like best, Mike?"

"Oi like a player pianny the best."

"Why?"

"Because Oi can play 'St. Patrick's Day in the Mornin'' or in the evenin'—or any old time meself. Which is it ye likes the best, Pat?"

"Sure, Mike, Oi likes the clarinet the best."

"Why do yez?"

"Because the little devil's handy in a fight."

EVEN EXCHANGE

First Irate Passenger (in crowded car)—Do you mind taking your foot off mine?

Second Irate Passenger—Certainly, if you'll take your pipe out of my mouth.

Grocer—This is the best brand of peaches on the market; your husband will like them.

Wife—The peaches my husband likes are not in cans.

Grocer—What are they in?

Wife—Bathing suits!

SOME MAN

My knees shaking, I rang the bell. When the door opened, there stood the biggest man God ever made, and right back of him was a man twice as big.



A. E. Weiler.....	President
F. Harris	Vice-President
J. Romano	Secretary
E. Biller	Treasurer
J. Martino	Sergeant-at-Arms
L. Schollenberger	Historian
Dr. Crane	Faculty Advisor

SENIOR CLASS DANCE

On January 15th, 1927, the Senior Class of the night school held a dance in the school gymnasium, which was attended by a large percentage of the class and their friends. It was a night when King Winter decided to visit us in all his splendor, but snowdrifted roads and frozen motors did not prevent the dance from being a huge success both socially and financially.

There were about sixty couples present, and a good night's fun was had by all. Refreshments were served between dances and the ice cream and punch touched the right spot, for the hall was kept pretty warm by our ambitious fireman. Inasmuch as everything was pretty well cleaned out by those present, it was evident that the punch had its usual kick having been made by an old formula one of our number concocted.

Mr. Heilman and Mrs. Heilman, our honored guests, evidently enjoyed themselves as they missed very few dances.

One of our old-time novelty dances was run by Charles Fausel, the live wire of the school, and everyone present had a chance to get acquainted all around. "Ed" Schutte gave his usual brand of snappy music, and as the floor seemed to be pretty well occupied while "Ed" was performing there is no doubt about his orchestra "putting it over."

As is usual, when one is enjoying oneself, the midnight melody "Home, Sweet Home," heralded the end of another joyous evening spent beneath the roof of Old Tech.

The committee in charge kept things livened up and had the satisfaction of knowing another one of Tech's social affairs was well managed. On the committee were Jos. E. Fachet, Chairman; Harry Kunz, John Brady, Bill Dunbar.

BOWLING TEAM

Starting on February 2, 1927, the bowling tournament will occupy a part of our time and any of the members of the class who can bowl are requested to report to J. Fachet, Manager of the class bowling team. As the tournament will be under way before this issue is on sale, there will be a chance for men who have not reported to get a place on the team, to replace those who cannot devote every Wednesday night to bowling.

After a discussion relating to taxes in surrounding cities, mention was made that large factories and factory properties were a means of reducing taxes for the individual property owners, because these factories received the limit of valuation and taxation of the cities in question.

Henault, the pyralin expert, informed us that the individual tax in Arlington was greatly lowered due to the large tax paid by the Du Pont plant, whereas in an adjoining town the individual tax is exorbitant because a cemetery occupies a large area, from which no productive results are obtained.

Why not tax the headstones?

Mr. Harry Kunz showed us that evening school students could find time to learn to dance. He certainly led the way at the Senior Dance. Upon questioning his partner later, she informed us that probably she was his inspiration.

"Government work" as some of our students explain it means to do any personal work as long as the boss pays for it. They also use company stock.

CLASS ^{OF} '28

ECHOES



President	Morris Fritts
Vice-President	Frank Romeo
Secretary	M. Bracuta
Treasurer	Harry Messuriello
Faculty Advisor	Mr. William Netschert

Harry Messuriello, our treasurer, was laid up in a hospital recently due to an accident while at work. Harry is back now though and plugging just as hard as ever.

Morris Fritts is as busy as Bamberger's lately. He holds down the position of "Chairman" on the Annual Dance Committee.

The brilliancy of Bill Van Assen is reflected by his neckties. In fact, we often wonder why Frankie Krebs doesn't come in with his face socked.

Ilgin says he's a bowler. Well, we'll soon find out whether he is or not.

Instructor—Mr. Sheehan, have you your excuse?

Sheehan—No, sir.

Instructor—Where is it?

Sheehan—On your desk, sir.

Frank Burns is sporting a brand new brief case lately, also a very classy shirt. Christmas present, eh, Frank?

The Class of '28 held a meeting on Tuesday, January 4. Frank Romeo, our Vice-President, presided.

A big feature, bound to be a success, the Junior Dance was the subject of discussion. The date was officially set for February 12th, Lincoln's Birthday. The dance investigating committee were instructed to continue functioning as the dance committee. The following students are members who have seen the design.

Mr. Burns, Mr. Darling, Mr. Frederick, Mr. Schmidt.

A class key designed by our industrious member, Frank Burns, has met with unanimous approval by the key committee, and by the many members who have seen the design.

Class of '28 pennants, gold letters, maroon background are now available. See Mr. Reiger.

Taft—What's a collective noun?

Kelly—Ashcan.

"Did you hear about Camelet stepping in front of a train?"

"Was he killed?"

"No, the train was backing up."

"There is no truth!"

"How true."

"Watta nice watch!"

"Yeah—runabout style."

"Runabout style?"

"Yeah, runabout an hour."

Dumb life saver—What'll I do if a man starts to drown?

"Throw him a rope."

"But suppose he don't smoke?"

Mrs.—I'm gonna cut up as much as you do. I'm gonna smoke, vote, drink, gamble and hang around the polls.

Him—Well, they're as good a nationality to hang around as any other.

A sausage is as strong as its strongest link.

The Harp who stood looking at the huge anchor on the dock and waiting, as he said, "To get a look at the feller who swings that pick."

CLASS OF '29

NEWS

G.G.S.

President	G. M. Gourley
Vice-President	G. G. Schmidt
Treasurer	R. Goebel
Secretary	Carl Czermak
Faculty Advisor	Mr. L. C. Spry

A little over a year ago at the beginning of our life as an organized body in the school, we published an announcement of our birth and extended an invitation to all students enrolled in the Class of 1929 to join our organization. While it would be stretching a point to declare ourselves gratified with the response as far as numbers are concerned, yet it is with a sense of deep satisfaction that we look back upon our accomplishments of the past year. For the benefit of those members of our class, who, for their own varied reasons have not attended the meetings, nor in other ways kept themselves in touch with class events, let us review the items of interest in the past and view some of our plans for the future.

Our first year was devoted to organization and disposing of the attendant details of such an undertaking. Our officers and faculty advisor were chosen at the second meeting and at the next we adopted our Constitution and By-Laws, which, after a year of operation have proven efficient and satisfactory. The next move was the selection of the class colors of blue and crimson. We were now ready to conquer our own little world, which conquest we immediately started by winning the 1925-26 Interclass Bowling Championship.

During the present year business of no lesser importance is on the books. And plans to make our school life as interesting as possible are in the making. Our committee have done their part in the planning and selection of the school key. We have chosen the design of our pennant and it will soon be offered to members of the class. The bowlers who are representing the class in the 1926-27 tournament are in action. In the near future we shall appoint a committee to arrange a dinner and theatre party to be held shortly after the close of this term. Another committee will start planning for our Junior year dance.

Now we are pleased to offer an explanation of our reasons for the publication of these plans.

It is in the hope that we might arouse such interest in you members of the Class of 1929 who are not enrolled in the organization that you will immediately join us. We feel sure that such a move on your part will not be a disappointment. It is proven that physically we are equal to any other class in the school and we assert the same standing for ourselves mentally, statements to the contrary from the Class of 1928 notwithstanding.

So we look forward, gentlemen, for your support in the proof of these foregoing statements, and close with an appeal to you to keep your attention on the bulletin board that you may be with us at our next meeting to learn more of and take a part in our activities.

G. M. GOURLEY.

DUES

They are the bane of the member;
They are the chief worry of the Treasurer;
They are the delight of the President;
They are the base of the Organization;
They are the barometer of our prosperity;
They are the fuel that keeps the works going;
They are more,
They are DUE!

RETORT COURTEOUS

Tourist—My friend, how far is it to the next town?

Native—I don't know.

Tourist—How far is it to the next hotel?

Native—I don't know.

Tourist—How far is it to a garage?

Native—I don't know.

Tourist—How far is it back to the last town?

Native—I don't know.

Tourist—My friend, you don't know very much, do you?

Native—Nope, but I ain't lost.



CLASS OF '30

NEWS

(HK)+A=3

W. F. Hope.....	President
G. Brady	Vice-President
F. J. A. Hoare.....	Treasurer
F. B. Thomas.....	Secretary

THEATRE PARTY

Nearly forty boys of the class of '30 saw Bye Bye Bonnie at the Broad Street Theatre, December 27, and unanimously agreed it was an A-1 show as regards to comedy, dancing and beautiful girls.

Disappointment was quite general when the sad news was announced that the Ziegfeld Follies would not play in Newark that week, but no one left the Broad Street Theatre with the feeling that he had been "gyped." No one in the seats we had could possibly have felt that way. We heard some of the boys were not able to get to work, terrific eye strain.

We found out at Perri's that our class has considerable talent in the order of singers. The boys had a good meal and nothing stronger to drink than water, but the way they sang those old folk songs!

The party was a super-exhibition of good fellowship and class spirit, two things that as long as we are in Newark Tech. we never want to forget. They are the sort of things that make a fellow step off the shelf and feel mighty proud he can call the boys his classmates.

We would like to take the liberty here to thank Mr. Hope, Mr. Deyler and Mr. Vines for their efforts in making the party a success.

Baily with a pair of trousers hanging over his arm was found wandering through the streets of Detroit the other day. He was looking for the *Detroit Free Press*.

CONGRATULATIONS—from the Class of '30 to Mr. LaGrutta, on the arrival of a son.

We wonder what happened to Hope's derby, we don't see it any more.

THE DIARY OF A HARD WORKING SALESMAN

9:11—Looked over racing results.

9:46—Stopped to see show window circus put on by a lady advocating hair tonic. acquaintance.

10:05—Held curb-stone conference with old ac-
10:37—Helped one thousand other people watch messenger boy feed pigeons.

11:00—Called on prospect. No luck.

11:02—Had measure taken for new pipe.

11:30—'Phoned my favorite boyish bob.

Closed big deal for Saturday night.

12:21—Went to see about radio batteries.

12:45—Time out for lunch.

2:10—Joined excited crowd watching man put on new tire.

2:31—Called on prospect. This one was dead and buried from the eyebrows back.

2:33—Watched derrick lifting steel boxes. Very educational.

3:12—Had argument with a gentleman for stepping on my foot.

3:35—Called up prospect I forget I had date with. No luck.

3:49—Joined class studying modern methods of moving a safe.

4:15—Called on prospect. No luck.

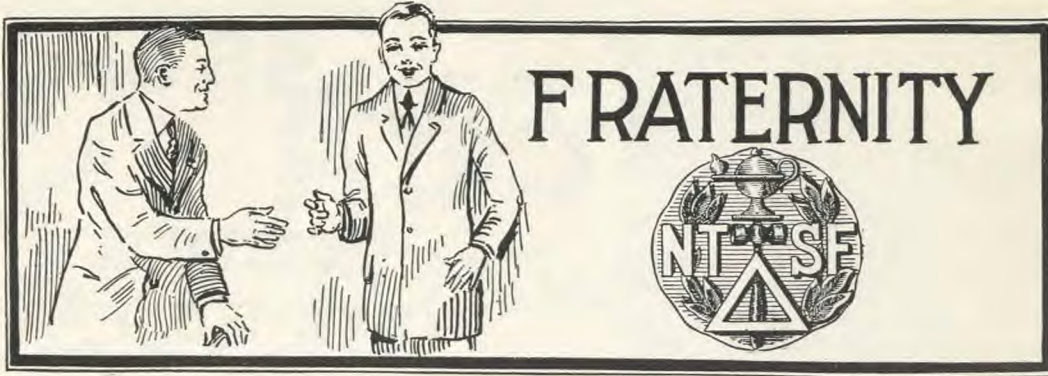
4:17—Decided to cross street.

4:32—Bulletin: Landed safely.

4:41—Quit for the day. Lotta hard work. No luck.

"We were slowly starving to death," said the famous explorer at the boarding-house table, "but we cut up our boots and made soup of them, and thus sustained life."

"Hush! hush! Not a sound," whispered Cornelius. "The landlady might hear you."



— RAY STEELE

OLD TIMERS' NIGHT

At 10:10 P. M., on the evening of December 10, 1926, about one hundred men consisting of Fraternity members, their fathers and sons attended the Annual Meeting of the Newark Technical School Fraternity, designated as Old Timers' Night. Business was dispensed with and the body of men was asked to sing the "Star-Spangled Banner," which opened the affair.

President Den Braven spoke on the modern trend of the Fraternity's activities and asked the co-operation of the Old Timers as well as the new. He stated that only with the assistance and support of all the members could the Fraternity progress with the times.

A poem written by Brother Carl Stuehler was read. It contained eulogies, humorous, satirical and otherwise of the Past-Presidents of the Fraternity. As his name was read, each Past-President was asked to arise and step to the front of the room so that the present members might be accorded the opportunity of seeing the men who had brought the Fraternity through its adolescent period.

The Past-Presidents who attended were: Brothers Freiler '11, Cusick '13, Flockhart '17, Schongar '18, Palme '20, Pfeil '21, Reid '23, Landers '24, and Redmerski '25. Past-President Cusick accepted the chair at the request of Mr. Den Braven.

The first number on the program was a banjo solo by "Joe" Martino. Joe is second to none when playing a banjo. His selection was received with wild acclaim and he played another after receiving an encore which nearly raised the roof.

Dean Cullimore then gave us some idea regarding the new school building and the aims of the governing body for the future. Dean Cullimore, regardless of his topic is always a welcome speaker.

The next item on the program was a group of songs by Brother Beyer. He was accompanied by Brother Schutte at the piano. Brother Beyer has a voice most of us would be proud to have and as some one said, "His songs and voice had a heart appeal."

Brother Stuehler and a friend, Mr. Shanbach, gave us a very interesting selection on the zither. We are indeed indebted to Brother Stuehler for bringing a friend of Mr. Shanbach's ability to accompany him in making this affair a success.

"Safety Pin" Voss DeVoe, a professional, entered to the tune of "Auld Lang Syne." He entertained us with some very funny stories and played on the saxophone, broom, toy balloon, "sweet potato," and xylophone. His exit with the same strain as his entry was melodious.

Our orchestra was excellent and consisted of Brothers "Ed" Schutte, "Joe" Martino and "Bill" Osterheld.

Singing was led by Brother Netschert, while the collation which included cider was served, and the meeting later concluded in the small hours of the morning with everyone reluctant to go home.

The members of the Fraternity thank the various entertainers; brother Harry Holder for the cider and the Committee consisting of Carl Stuehler, Chairman; Brothers Jessick, True, Voss, Messuriello, Kunz, A. H. Lamb, F. X. Lamb, and Urban, for the very successful entertaining event they enabled us to enjoy.

Twenty-ninth Annual Dance, Friday, February 18th.

Tickets have been received by all the Fraternity members, and the committee requests that each member send in his five dollars before the night of the dance. They also ask us to bring another couple. Surely, we have friends who would be glad to attend such an affair.

The committee is working wholeheartedly to make this dance both a social and a financial success. It costs money to run an affair of this type and it takes an enormous amount of time and planning.

If a few men are willing to spend their nights after nine-thirty; their holidays and Sundays to propagate successfully a huge undertaking of this kind, surely you and I can at least assist by attending.

Send in your check or cash now and enjoy a real good time.

From those who are not already Fraternity members we also solicit attendance. The tickets are five dollars per couple and any Fraternity member will be glad to get them for you. If you are undecided whether or not you can attend, enter the Grand Ball Room of the Robert Treat Hotel on the evening mentioned above and we will welcome you this night as one of us.

The following good times are on the card and our Fraternal brethren request our attendance:

Ladies' Night, March 8, 1927.

23rd Annual Theatre Party, March 19, 1927.

Faculty Night, March 25, 1927.

Let us make these also a success.

"Our Musical Show"

Needs Your Support

Attend the Rehearsals
Every
Thursday

"Say, Rastus, how is yo' grandfather?"

"Not so good—not so good. He's sho' got one foot on a banana peel, and the other in the grate!"

"In the grate?—you mean the grave, don't you?"

"No, suh! This boy's gonna be cremated!"

"Did he kick the bucket?"

"No, just turned a little pale!"

LOST A LAUGH

The drill sergeant was not very amiable and the recruits were having a bad time.

The weather had been wet and the parade ground was very slippery. In doing a movement smartly, as an example to his men, the sergeant slipped and fell full length. The recruits could scarcely repress their mirth.

Getting up with all the dignity he could muster, the sergeant's eye fell on Murphy's grinning face.

"Well, you grinning hyena!" he roared, "what's hurting you? Do you see anything funny?"

"No, sir," gurgled Murphy tactfully, "Oi was just thinkin' what a laugh we could have had if it had been anywan ilse save yourself, sergeant."

—*London Tid-Bits.*

Little Johnny's father went to work early in the morning and came home late, after the children were in bed. One morning Johnny got up unusually early and was out in the yard when his father went to work. Johnny started fighting with the kid next door. His father gave him a spanking and sent him in the house. Johnny ran in to his mother crying, "Mother, a man spanked me!" "Why what man do you mean, Johnny?" "T-T-That man who sleeps here Sundays!"

Telephone Market 3614

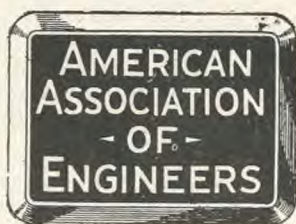
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NEWARK TECHNICAL SCHOOL STUDENT CLUB AMERICAN ASSOCIATION OF ENGINEERS CHARTERED 1922

H.J.W.

SO ALL MAY KNOW

This is a message to the engineering students of the Newark Technical School.

There are many students who seemingly are unaware of the existence of the student chapter of the American Association of Engineers. This article is written not only to announce its existence, but also to enlighten those students who never heard of it, or have thought of it merely as a name.

The American Association of Engineers is a national organization devoted to the cause of the engineer. It has a membership of about thirty thousand, having its headquarters in Chicago, with chapters in every principal city in the United States. Civil, mechanical, chemical, and electrical engineers comprise its membership. It is recognized as one of the largest organizations of its kind in the world, having some of the leading and most eminent engineers in the country for members.

To tell of its size leads to the natural question, "What are the objects of the association, and what are its benefits?" This, to enable one to account for its large membership.

To begin with, it might be well to quote an abstract from its Constitution, which reads: "The object of the association shall be to promote the social and economic welfare of the engineer, to stimulate Public Service in the Engineering Profession, and to encourage and develop the efficiency of the engineer." What is more precious to engineers and engineering students than the strong, rich friendship of other men in their sphere? It is the old saying that "Birds of a feather flock together." The association is the medium which stimulates and enables engineers to "flock together."

The association operates what is known as "Association Employment, Inc." Its purpose, as the name indicates, is to provide employment service to the engineer, which is an important need.

Worthy of mention is the *Professional Engineer*, a monthly journal, published by the association and mailed to its members. It describes all important engineering problems of the country,

the activities of its chapters, and general news of interest to the engineer.

Now that some of the underlying purposes and ideals of the Association have been outlined from its national scope, it might be well to mention the Newark Technical School Chapter.

The Newark Technical School, due to its educational merits, holds the distinction of being the first Evening School to be granted a chapter from the A. A. E. We are of course a student chapter, meaning that one enters as a student engineer. One year after graduation, he has the privilege of becoming a professional member. The chapter among other things, provides several interesting lectures each year, these being open to all students.

All engineering students of Newark Tech are invited to join this association. Members can be found throughout the school who will gladly furnish any information desired, and will give a hearty welcome to anyone desiring to become a member of the Newark Technical School Student Chapter of the American Association of Engineers.

FRANK J. DEYBACH.

* * *

On Friday night, January 21, students of the school enjoyed a lecture which was perfect in every detail. It was given before one of the largest crowds ever assembled in the auditorium of the academic building, and it is our belief that everyone who attended felt well repaid for the time he spent.

The speaker of the evening was Mr. W. R. Smith, Managing Engineer of the Public Service Production Co., and we print below his lecture in detail.

CONSIDERATIONS IN THE LOCATION OF A POWER STATION AND SOME OF THE PRINCIPAL DESIGN FEATURES AS EX- EMPLIFIED IN KEARNY STATION.

To keep the electrical facilities of any utility company abreast of the demand, plans based upon a continuous survey of conditions obtaining

(Continued on page 20)

"So Those Who Read May Run"

(With apologies to a well-known columnist.)

The papers stated about a month ago that New York was to have a 110-story building. The same day we read of two aeroplanes having crashed in the sky.

At present there is a large expanse of air not occupied, but if skyscrapers are built much higher life will be made more miserable for the poor aeronaut.

* * *

Will Rogers again. Mr. Rogers lecturing in Carnegie Hall, stated his views agreed with Shaw's. "The World's wrong, but we don't know what's the matter with it." "What the youth of this country needs," said Mr. Rogers, "is narrower pants and broader ideas."

* * *

A hungry chambermaid in Paris, eating an apple, bit into the Conde rose diamond valued at \$300,000. This diamond had been lost since October 12th, 1926.

If poor Adam had the luck of a chambermaid, he probably could have bribed the angel in the Garden of Eden.

* * *

Colonel Schwartzkopf of the State Police defends the twenty-five troopers who shot and killed a woman and injured a man when they tried to arrest them on a minor S. P. C. A. charge.

This is probably the right thing to do; defend them for any offense they may commit against the citizenry. The job of the State Police is to protect the lives and property of the citizens. It would seem that these people probably would not have shot at the police if a little tact were used in arresting them. From personal observation the State Police of New Jersey have a lot to learn. They are entirely too overbearing and dote in their self-importance. A beautiful uniform may cover a fool.

* * *

The *N. Y. World* suggests a new market for structural steel. They say Harvard should use steel for goal posts. If this advice is accepted Brown will not be able to retaliate with the removal of Harvard's goal posts.

Apropos of the above. Enameled steel pennants firmly riveted to the wall of our Fraternity room might be practical. Just a suggestion!

* * *

Secretary Kellogg appears to be having serious trouble with his South American children. If he supported the existing government of Nicaragua with peppermint sticks instead of ammunition and guns the trouble would soon be over and the legitimate president could rule in peace. Peppermint sticks are peaceful instruments of war.

* * *

America is to honor Columbus in Spain, by building a statue similar to the Statue of Liberty. We read about the horrible conditions of the poor in our larger cities and yet spend money to build statues to dead men. A fine example of idolatry, modernized.

* * *

A report has been received that some of the members of the College of Engineering spent a very hilarious New Year's Eve. The total expenditure was supposed to have been three dollars per person. Night Clubs advertised a cover charge of forty dollars and the theatres sold seats at no less than ten dollars. Where did these future engineers spend the evening? The Night School students should have a reasonable idea of night life, but we would like to learn new lessons.

* * *

Count Salm has come to this country to get his alimony from the Rogers family. This is the type of man some of our American heiresses marry. There is some satisfaction in being born poor after all.

(Continued from page 14)

throughout its territory must be formulated well in advance of actual requirements. This is particularly true in the case of a system serving such a concentrated and rapidly growing industrial and residential community as does Public Service.

Once having determined the necessity of increasing capacity by the building of a generating station, the utility company's engineers must decide upon the most suitable location; taking into consideration the load center, the accessibility to existing substations and distribution centers from the standpoint of right-of-way, the securing of coal possibly by both rail and water, the supply of an adequate amount of condensing water, and of course the value of real estate. The site chosen for Kearny Station, midway between the Essex and Marion Stations of Public Service Electric & Gas Company, may be considered as the load center of the district, and covers about eighty acres on the west shore of the Hackensack River at South Kearny, N. J.

The same studies which have shown that a new plant must be built have obviously also settled to a large extent the question of size and the date by which operation is necessary. Consideration must at this point be given to the selection of unit sizes for boilers and turbo-generators, and to the type of fuel to be utilized and, if coal, the manner of burning. The history of station construction shows that plants of large ultimate capacity have often been built piecemeal, that is, in sections of two to three units at a time. This method was followed in the building of our Essex Station, erected some twelve years ago. In the case of Kearny, however, the system growth justified building the first half of an ultimate ten-unit station at the outset. The units now installed comprise three General Electric 39,200-kva. and two Westinghouse 53,750-kva. 80 per cent. power factor machines.

The present boiler installation comprises four banks each consisting of three Babcock and Wilcox boilers designed for a maximum operating pressure of 385 lb. gauge and a total temperature of 720°F. No economizers or air preheaters are used. The heating surface of each boiler is 23,600 sq. ft. and each superheater has an area of 4,130 sq. ft. The boilers have 48 sections each, and are 20 tubes high and 21 ft. long. The superheater in each case is located between the upper and lower decks of the boiler, with six tubes between the superheater and the furnace. The walls of the setting are air-cooled; the furnace side walls and the rear wall lined for short distances above the grates and clinker pit with non-clinker-ing carborundum blocks.

The boilers are provided with stokers of the single-fired type and with forced-draft and induced-draft fans. Provision has been made for

varying the speed of the stokers and fans in order that each boiler may operate at numerous ratings from below normal to 350 per cent. of normal.

The feed water for the boilers is heated by four-stage bleeding of the turbines, the heat balance being calculated on the basis of using electric drive for all the station auxiliaries, power therefor being supplied from transformers connected to the station busses.

The generators are rated at 13,800 volts and are equipped with direct-connected exciters. The leads from the generators connect to tubular busses extending under the turbine-room floor and crossing to the switch house by means of two bridges.

The manner of transmitting the generated electric energy to the load distribution centers and the nature of the electrical installation at the power station itself must be decided upon, with due consideration given to the already established facilities of the system. Exhaustive studies showed the desirability of taking full advantage of the proximity of the Kearny site to the large generating stations of Essex and Marion, by tying the three plants together at 132,000 volts. Kearny Station is therefore a super-power station in the true sense, all of its output being at high voltage.

A switch house is provided for housing the necessary 13,800-volt busses, and the corresponding oil circuit breakers and the reactors for limiting the short-circuit currents. This switching equipment is isolated vertically as regards the separation of phases and horizontally as regards both the separation of one group from another and the separation of oil-immersed apparatus from all other equipment. Each of the three lower floors is used for the oil circuit breakers, disconnecting switches, reactors and busses of one phase. The fourth floor contains mechanism for the remote control of the oil circuit breakers and levers for the operation of the disconnecting switches, the operating of the latter being thus removed from all danger. The fifth floor accommodates the conduit room, and the battery room and its equipment. The main control room constitutes the sixth floor.

The generators normally feed directly to their respective transformer banks in the outdoor substation but operate in synchronism through group-tie and main-tie busses, in the switch house, both of which busses are in duplicate. Any generator can, however, be connected to any bank of transformers by means of a transfer bus. Power for the house transformers is taken from the main-tie bus, thus insuring service to the auxiliaries regardless of whether one or both of the two sections of the group-tie bus is furnishing power.

The oil-circuit-breaker cells are separated by

walls from the cells containing the disconnecting switches, reactors and operating mechanisms thus protecting the latter from any conducting gases which may be thrown from the former. An induced-draft system of ventilation is provided for the three phase floors of the switch house. A flap damper in each duct line, leading directly to the outer air, provides an outlet for possible explosions.

Both electrical and mechanical interlocking has been installed in the switch house at Kearny to protect equipment and attendants from such accidents as might arise from the opening of cell doors leading to live parts and the opening of disconnecting switches carrying load. Provision has of course been made for the making of necessary inspections and repairs by properly authorized attendants.

In the control room two main switchboards, for the control of the generators and of the step-up transformers and high-tension lines respectively, are each divided into rows of panels in the form of an arc. In both boards the front rows are control benchboards, whereas the second rows carry indicating instruments. A totalizing wattmeter for all the generators and a graphic recording voltmeter connected to the main-tie bus are carried on separate panels in a third board on the generator side, provided for other recording instruments. This voltmeter and five generator graphic recording ammeters are provided with relays which, during times of trouble, actuate gearshifts in the instrument mechanisms thereby speeding up the paper travel to sixty times normal and giving an almost oscillographic record.

The output of each generator is carried to the outdoor substation from the switch house through four 1,000,000-c.m. cables per phase in fibre ducts. The voltage is here stepped up to 132,000 for transmission purposes. Five 45,000-kva. banks of Allis-Chalmers transformers have been installed, each being star-connected on the high side and delta-connected on the low. The breakers and disconnecting switches in the outdoor substation are controlled from the main control room, the switches being of the motor-operated double-break horizontal-opening type and being electrically interlocked with their breakers in much the same manner as in the switch house.

The station power is three-phase; with but few exceptions, 2,300-volt for motors of 50 h.p. and over and 440-volt for motors under 50 h.p. A majority of the motors are of the double-squirrel-cage induction type, designed for full-voltage starting. The main auxiliary substation is located in the turbine room.

For the control system there are two storage batteries and two three-unit charging motor-generator sets. One battery normally provides power for the operating of the main steam valves, which

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are motor-operated, and for the emergency lighting system; the other battery normally provides power for the operation of the oil circuit breakers, the 132,000-volt motor-operated disconnecting switches and the other equipment requiring direct current. It is possible, however, to connect the entire direct-current load to either battery and each battery has sufficient capacity to carry this load.

Suitable relays and other protective devices have been provided for the generators and transmission lines as well as all transformers and circuits of lower voltages, in order to insure continuity of service and selective operation of equipment.

The station is equipped with the latest developments for signal, alarm and communication purposes.

W. R. SMITH.

* * *

The A. A. E., N. T. S. Club and the rest of the students who attended owe Mr. Smith a debt of thanks for his work in giving us this lecture. To Mr. Alexander, who operated the projector, we also owe our thanks.

Luck means the hardships and privations which you have not hesitated to endure; the long nights you have devoted to work. Luck means the appointments you have never failed to keep; the trains you have never failed to catch.

PLAY BALL!

By Alice H. Wallace

It's all in the game, I tell you,
 Whether you shovel or bat,
 Or wipe the works of the engine,
 Or pin your man to the mat;
 You must play the best that's in you,
 And land on the horse-hide pill;
 For no one's knocked a home run yet,
 Who doesn't swing with a will.

You see 'em lag by the roadside;
 You hear 'em grumble and wheeze,
 You find they shirk the hardest work,
 And call the foreman "a cheese."
 But the guy that rips the cover—
 The fellow that oils the mill—
 Is one with a home-run wallop,
 Who swats the ball with a will.

So remember what I tell you—
 Just think you're playin' ball:
 The game's a railroad record,
 And pennant's free for all.
 Up and soak the pellet squarely!
 Make each moment count, until
 You hit a homer every day
 With the work of brawn and will.
 (Reprinted from *The Sayville (L. I.) Citizen*.)

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WORRIES AND WORRIES

"Why so pensive, dear?" asked his wife. "I'm trying to think what it was I used to worry about before I bought this gosh blamed second-hand liz-rie," he sighed.—*Cincinnati Enquirer*.

A little girl had been absent from school for about ten days because of sickness. When she was able to return to school she absolutely refused to go back. She said the teacher said if anyone was absent over five days she would throw them in the furnace. Her mother questioned her more about it because she was sure the teacher would not make such a remark. The little girl said, "The teacher said, if anyone was absent from school over five days she would drop them from the register."

"Scots make headway and don't loiter," says a writer. It's been noticed they seldom stand around.

"See here," the Indian Inspector declared, "it is a violation of the law now to have more than one wife and the law must be obeyed. When you get back home you tell all of your wives, except one, that they can no longer look upon you as their husband."

"You tell 'em," suggested the Indian after a moment's reflection.

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He calls her Lavalieri because she's always around his neck.

Speaking of singing—did you hear about the feller who wrote home that he was third base on the college nine.

"Been hunting?"

"Yep!"

"Shoot anything?"

"Yep, my dog!"

"Was he mad?"

"Well, he wasn't any too darned pleasant about it!"

I felt the beating of her heart
So close was her's to mine
We could not wrench ourselves apart
Her presence was like wine
But still the girl I couldn't win
So near and yet so far
For that's the way with strangers in
A crowded subway car.

"Do you have Colgate's soap?"

"Do you want it scented?"

"No, I'll just take it with me."

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It's the running expenses that keep father out of breath.—*Wall Street Journal*.

The easiest way to get back on your feet is to get rid of your car.—*El Paso Times*.

Competition may be the life of trade, but it is the death of profit.—*Shoe and Leather Reporter*.

Newark girl drove a burglar away by kicking him in the shins. The Charleston teaches them something worth while after all.—*New York American*.

Cornelius Vanderbilt, Jr., is quoted as saying that it is hard to be a rich man's son. Most of us find it impossible.—*Seattle Argus*.

The motto of success is to work hard and save your money. We would like to know how to get the money.—THE FRATECH.

MISUNDERSTOOD

Jones—Have you read "Flannels?"

She—Don't get fresh.

She—My father is a doctor, so I can be sick for nothing.

Swenson—My father is a parson so I can be good for nothing.

Teacher—Abie, give me a sentence using the word pencil.

Abie—If my suspenders break, my pencil fall!

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THE GETAWAY

The village improvident was observed dicker-
ing with an automobile salesman for an expen-
sive motor.

"What do you mean," asked a candid friend,
"by buying a big fast car when you can't even
pay your bills?"

"That," admitted the improvident, "is the main
reason I am buying a big, fast car."—*Philadelphia
Ledger.*

INFORMATION GRATIS

An excited motorist called up the hospital late
one evening: "My car has just turned turtle!"

Attendant: "Don't bother us, call up the aquar-
ium."

A stout woman drove up to a filling station.
"I want two quarts of oil," she said.

"What kind, heavy?" asked the attendant.

"Say, young man, don't get fresh with me,"
was the indignant response.

IN ENGLISH CLASS

Teacher—I have went. That's wrong, isn't it?

Pupil—Yes, ma'am.

Teacher—Why is it wrong?

Pupil—Because you ain't went yet.

THE NEW EDITION

Photographer—Watch the camera, and you'll
see a pretty little dickey bird come out.

Modern Child—Oh, don't be a fool; expose the
plate and let's get this thing over.

"I don't think you're much of a salesman.
You haven't shown me the depreciation, and my
husband said that was the biggest thing about
a car," she said.

A MARRIED MAN PROBABLY

A man in a hurry rushed into a bank. Two
receiving tellers were busy at their respective
windows. Two lines had formed. One line con-
tained three women, the other eighteen men.
Mr. Man-in-a-Hurry paused and surveyed both
lines. He gave a full minute to his survey. Then
he joined the line of men.

—*Louisville Courier-Journal.*

A CONTENTED GOLF WIDOW

"I'm so glad we're having such good weather
for golf," remarked Mrs. Cleek to her caller.

"Why, I didn't know you played golf."

"I don't; but I'd rather have my husband out
playing the game than at home talking about it."

—*Boston Transcript.*

S. M. Tunison

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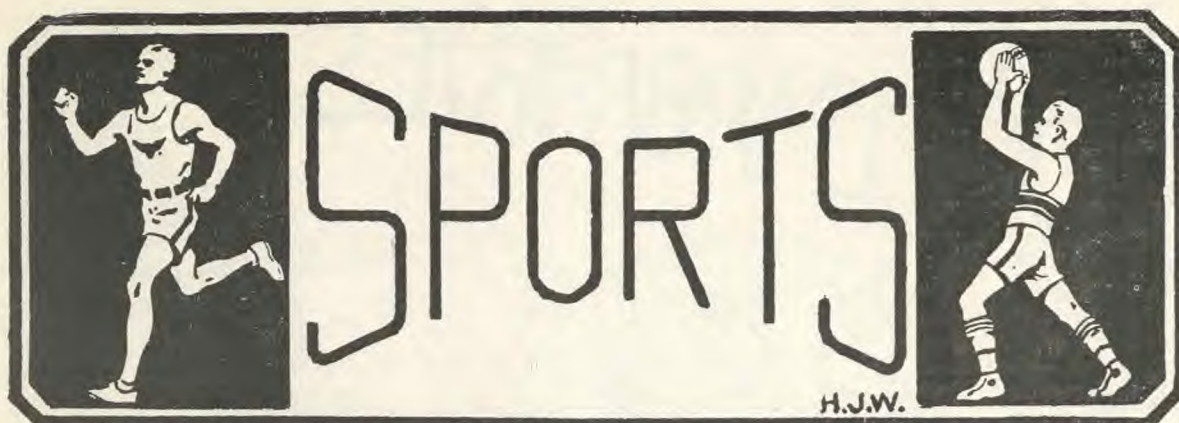
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**BOWLING SCHEDULE FOR 1927**

February 2, 1927—0 2 1
 Class of 1927 vs. 1928—Class of 1929 vs. 1930
 February 9, 1927—2 0 3
 Class of 1927 vs. 1929—Class of 1928 vs. 1930
 February 16, 1927—3 3 0
 Class of 1927 vs. 1930—Class of 1929 vs. 1928
 February 23, 1927—
 Class of 1928 vs. 1927—Class of 1930 vs. 1929
 March 2, 1927—
 Class of 1929 vs. 1927—Class of 1930 vs. 1928
 March 9, 1927—
 Class of 1930 vs. 1927—Class of 1928 vs. 1929
 March 16, 1927—
 Class of 1927 vs. 1928—Class of 1929 vs. 1930
 March 23, 1927—
 Class of 1927 vs. 1929—Class of 1928 vs. 1930
 March 30, 1927—
 Class of 1927 vs. 1930—Class of 1929 vs. 1928

Under the expert supervision of the faculty adviser, Mr. Harry Rielly, the N. T. S. F. basketball team has rapidly progressed to a point where we can all look forward to a very successful season on the court. Probably the chief reason for the present high spirits of the basketball fans is the line-up of men we all know can play the game so well, namely: Joe Dorchek, Captain of last year's Evening School team; "Red" Landers, star forward; "Whitey" Wiegand, that ever-alert guard; John McQuillan, a player of note; "Tom" Edwards, a well known amateur player; Paul Wirth, scholastic star of a few years ago; "Garry" Den Braven, former Harrison High star; our old friend Steady; big-boy Dunbar, and last, but far from being least, our own "Johnny" Brady. There are others, too, who are being polished off as it were, before their final assimilation and who all give promise of being well able to uphold the glory of "N. T. S." on the court.

A desire for the success of the sport should be a dominant factor in drawing the students and Fraternity brothers to the different games to root for

our men. We have a new court here now, and a very interesting schedule of games for the year that promises plenty of entertainment and excitement.

If there are any more members of the Fraternity who have any talent at the game, we would like to see them out for practice.

TIGHT SQUEEZE

"So you are the only survivor of that wreck. Tell me how you came to be saved."

"I missed the boat."

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OUR CONTEMPORARIES



Beggar, at back door)—I've lost my right leg.
Hausfrau—It's not here.—*Pitt Panther.*

He who laughs last has probably had it explained to him.—*Purple Cow.*

Teacher—Willie, tell me what I mean when I say I love, you love, he loves.

Willie—Sure that's one of those triangles where somebody gets shot.—*Notre Dame Juggler.*

There is a young lady named Kate
Who is silly, 'tis sad to relate;
A big granite rock
Once fell on her block;
Since then she has been silicate!
—*Princeton Tiger.*

I took a girl to the '28 dance,
Because she wouldn't go alone;
And it's damn lucky that I did
'Twas she who brought me home.
Ski u Mah.

Just women kiss a baby girl
Till she is nine or ten;
Then things begin to change around
And she gets 'em all from men.
—*Mugwump.*

"Do you work here?"
"I should say not; I'm a dairy maid in a candy factory."
"Aren't you kidding—what do you do?"
"Milk chocolate!"—*Bucknell Belle Hop.*

The Possum is a small fur-bearing animal found in America. The O'Possum is the Irish branch of the same family.—*Dartmouth Jack-o-Lantern.*

"Say, Romeo, where did you get that scar?"

"Poker!"

"Cheating?"

"No—kidding the cook!"—*Cornell Widow.*

"Where'd you get those great big eyes?"

"My folks gave 'em to me for a birthday present."—*Catalink.*

"Waiter, this knife isn't clean!"

"Well, it ought to be, the last thing I cut with it was a bar of soap!"

First Tramp—I see youse was arrested.

Second Tramp—Yeah for fragrancy.—*Harvard Lampoon.*

Golddigger—Darling, they tell me that a touchdown in football is valued above all other things. Is that true?

Goldminer (also plays football)—Yes, dear.

Golddigger—Then why didn't you give me a touchdown instead of this insignificant little gold football?—*Penn. Punch Bowl.*

Migosh Kitty you forgot your earrings! Don't you feel positively naked?—*Purple Parrott.*

"Terrible! Terrible! Mary went swimming and a goat ate her clothes."

"What did she come home in?"

"The twilight!"

—*Texas Ranger.*

Misprinted ad:—

Help wanted:

Experienced widow trimmer.—*In a California Paper.*

Ambrose Washington, a gentleman of color, had just been put into the big game of his school. The quarterback started to call signals. "Man," yelled Ambrose, "never you mind no signals, just you gimme dat ball and, interference, follow me!"

I pleaded with her for an answer
My brain was all in a whirl
But I pleaded in vain for an answer
For she was a telephone girl.

Penn. State Froth.

Policeman (to kid just struck by an auto)—Did you get his number?

Kid—No, but I'd recognize his laugh anywhere.
—*Life.*

Mr. O'B.—Be golly—I sure am tired to-night.
Mrs.—There ye go again complainin'—here I am standing over a hot stove all day and you working down in a nice cool sewer.—*Penn. Punch Bowl.*

Captain (to victim about to be shot)—How many men do you want on the firing squad?

Vict.—Oh! put a lot more on captain—I don't want people to think I died half shot!—*Ga. Tech.*

They call him Henry because he lays around the house.

They put him in the "B" class at school because he had the hives.

Mamma—Johnny, I wish you'd be a good little boy.

Johnny—I'll be good for a nickel.

Mamma—The idea! Why can't you be good for nothing, like your father.

Camelet—Mr. Koshkarian, what is the date, please?

Mr. Koshkarian—Never mind the date—the examination is more important.

Camelet—Well, sir, I wanted to have something right on my paper.

Krebs—I suppose you read Shakespeare?

Van Asseu—Yes, I read all his stuff as soon as it comes out.

True—I'm a man of few words.

Wehman—Yes, I know, I'm married, too.

Hoelzel—What was the main thing you did while crossing the ocean?

Reommele—The main thing I did was to cast my bread upon the waters!

AND THE TRUCK?

Insurance Agent—Come with me; you can get damages for this.

Negress (hit by truck)—Good Lawd, man, ah don't need no mo' damages—what ah needs is repairs.—*Blue Jay.*

OUR TOURISTS

A group of tourists were looking over the inferno of Vesuvius in full operation. "Ain't this just like hell?" ejaculated a Yank. "Ah, zese Americans!" exclaimed a Frenchman, "where have zey not been?"

ANOTHER BROKEN HEART

Motorist—I'm sorry I ran over your hen. Would a dollar make it right?

Farmer—Wahl, better make it two. I have a rooster that was mighty fond of that hen and the shock might kill him, too.—*The Magnet.*

She—You drive awfully fast, don't you?

He—Yes, I hit seventy yesterday.

She—Did you kill any of them?—*Bison.*

Traffic Cop—What's your name?

Truck Driver—It's on the side of me wagon.

Cop (trying to read name)—It's obliterated.

Driver—Yer a liar. It's O'Brien.

Young Wife—What's causing the trouble, dear?

Novice—I don't know exactly, but I think it's the exasperator.—*The Automobilist.*

HE'D RATHER DROWN

The traditional trio—Irishman, Jew and Scotchman—were in the traditional leaky lifeboat, far out at sea. The Irishman, becoming frantic as the water gained steadily, besought his comrades to pray, or, at least, do something religious or of a religious nature.

So the Jew started to take up a collection.

Seeing which, the Scotchman jumped overboard.—*Judge.*

MISTAKEN IDENTITY

"Say, young feller, is Mike Howe stayin' here?"

"Sorry, sir, but this is a hotel, not a dairy."

IS NOT HERE, WHERE?

The inebriate sidled up to the ticket window.

"I want a round trip ticket," he told the agent.

"Where to?"

The prospective passenger looked around him rather confusedly and then said, "Why, back here of course."

What we can't understand about radio is how the static knows we are to have company that night.



1926 THEATRE PARTY

The Class of 1926 held its annual theatre party on Saturday evening, January 15, 1927, at the Apollo Theatre in New York, where a very entertaining performance of George White's "Scandals" was presented. Prior to the performance a dinner was held at the Cafe Boulevard near the theatre. Fred Highfield was chairman of the committee and George Barlow assisted him in completing arrangements. Despite one of the most inclement nights of the winter a splendid time was enjoyed by the twelve members of the class who participated. Among those present were: Fred Highfield, George Barlow, Larry Carlson, Gordon Cameron, Joe Tunner, John Gibb, Henry Viol, Howard Wendler, Charles Mayer, Bill Huettl, Garret Den Braven and Chas. Kiernan.

After the show an animated discussion arose as to the most interesting feature of the evening. Gordon Cameron was sure his opera glasses enjoyed wide popularity, and several of the boys agreed with him, but others thought that Henry Viol's derby lent the most distinction to the gathering. It is reported that Fred Highfield will give an imitation of Ann Pennington doing her famous dance "The Black Bottom" at some future meeting of the class. John Gibb has been in touch with several manufacturers of curtains since the visit to the show. It is reported that he was very much charmed with the curtains used during the performance, particularly the very novel effect that was used in raising and lowering them by means of very wonderful tassels.

* * *

The members who attended the dinner and show in New York brought back such glowing reports of the good time, that the entire membership is looking forward to the next meeting which may be held at the suburban home of a certain very popular teacher in our school, who was and still is our faculty advisor, Mr. William Netschert of Caldwell.

ALUMNI IN THE COLLEGE

The members of the Class '26 are fast becoming acclimated to college life, and are already very active in the many affairs. These men are most active in their relative engineering organizations, and are out taking an active part at all meetings.

Features of the January A. S. M. E. program were papers delivered by Cliff Keating, '23, and

"Ed" Redmerski, '25. These papers were enjoyed by all, and were well received.

"Ed" Redmerski, '25, as chairman of the A. S. M. E. program committee, is responsible for the appearance of the many interesting outside speakers brought before the student branch. "Red" gets more pleasure from work than most of us get from play.

"Ed" Redmerski and Barney Diebold were honored by being elected to the Alpha Kappa Pi Fraternity.

"Lou" Bates, '25, and "Art" Booth, '25, are very nicely upholding the reputation of the Evening School chemical division. They found little difficulty in getting the knack of things, and are now right in the swim.

"Mickey" Diebold, college quarter-miler, is representing the red and white on the indoor tracks. He has participated in the Brooklyn Casey, Fordham University and St. Joseph games.

In inter-class basketball competition the Seniors are represented by a formidable quintette. Among the galavantin' around the gym for the Seniors are: Redmerski and Diebold.

Well, the old examination bug-bear is on us once again and the only logical thing to do is to hurdle it with plenty to spare. Let's go.

The new men from the evening school are naturally confronted with the proposition of spending half of their time in the co-operating industries. This phase of the work, however, is nothing new to the men, and they took to their duties like ducks to water.

Now that Campbell Hall has been opened, the Alumni in College are enjoying the pleasure of its spacious rooms and auditorium.

J. Pishkittel, a former member of the evening classes, is now in the College and doing very nicely. "Pish" is well up in his work and is very active in class and social affairs. He is also a very strong half-miler on the College track team.

Previous to the Fordham track meet "Joe" Scherer and "Mickey" Diebold were discussing quick methods of reaching the Armory. They disagreed, naturally, and decided to leave Newark at the same time, use their favorite routes, and try to reach there before the other. The result was that they both employed too much gusto in reaching the place, and both were too tired to do themselves justice on the track. "Joe" was too tired to compete and "Mickey" won no medals.

We wonder how most mothers learned of the things they tell their daughters to avoid.

There is many an elderly man with a young looking figure who wouldn't want his wife to see it.

Most women like only two types of men, the young and the old.

Cynics say matrimony does not prolong life; it only makes it seem longer.

SOMETHING TO EAT, ANYHOW

His wife had gone to visit her mother, and had telephoned that she would not be returning until the morning.

When she got back she said to her husband, "You managed to find something to eat last night, didn't you, dear?"

"Oh, yes," he replied, cheerily, "I had the steak that was in the pantry and fried it with some onions I found in the cellar."

"Onions!" she gasped. "Darling, you've eaten my bulbs!"

"When Noah sailed the ocean blue
He had his trouble, same as you;
For days and days he drove the Ark
Before he found a place to park."

A GIRL IN EVERY PORT

The young and awkward-looking engineer had been glancing over the greetings cards on the counter for some time. Finally a saleswoman came up and suggested. "Here's a lovely sentiment: 'To the only girl I ever loved.'"

"That's fine!" replied the y. and a.-l. engineer, brightening up a bit; "I'll take five—no, six of those, please!"

NICE ABOUT IT

A lady living in a London suburb was shocked at the language used by two men repairing telegraph wires close to her house.

She wrote to the company on the matter and the foreman was asked to report.

This he did in the following way:

"Me and Bill Fairweather were on this job. I was up the telegraph pole and accidentally let the hot lead fall on Bill. It went down his neck. Then he said: 'You really must be more careful, Harry.'"—*The Delta*.

WHAT HE WAS HOLDING

A bashful young man was courting a girl, but he was so backward in his love making that she began to grow impatient. Finally, one night, while they were taking a walk he summoned up courage to put his arm about her. "Do you think I'm making progress?" he hesitantly asked. "Well at least you're holding your own," was the reply.

DOG GONE

An irate fan who had watched his home team go down to defeat, stopped the umpire as he was leaving the field. "Where's your dog?" he commanded.

"Dog?" ejaculated the ump. "Have no dog."

"Well," said the grouchy one, "you're the first blind man I ever saw who didn't have a dog."

WE WONDER WHY

Gourley doesn't bring his saxophone around (we often heard him tell about it).

Taka makes so much noise during classes.

G. G. Schmidt is forever bragging about the '29 bowling team ('28 take notice).

The same gentleman is so quiet lately. (Maybe it's because Sloan isn't around to argue with him.)

H. R. Smith rushes for his car and then to Passaic every night.

Herpick has deserted the class meetings this year.

Czermak is always smiling (he's some artist, too. He drew a picture of a cow once and Goebel thought it was G. G. Schmidt.)

Long is so quiet at the class meetings.

Bosch rides to Paterson with Hensel every night. (Ask Hensel he knows.)

Armstrong (or "Strongarm") isn't seen in the hall anymore.

Girls leave home? (Ask Cogan and Henn.)

"That's the bunk," cried the chambermaid as the folding cot fell on her frame.

And now you can notice the Christmas neckties showing signs of wear.

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SOME SCORE

Bill tells of a friend of his—a beginner at golf—who, when asked how he came out on the first day on the links, replied that he made it in eighty.

"Eighty," ejaculated Bill, "that's really remarkable. Most old-timers would envy you that score. You'll surely be an enthusiast from now on."

"Yes," said the novice, condescending, "I'm going back to-morrow and try the second hole."

MONASTIC EFFECT

"Couldn't you let that skirt down a little, Mary Louise? It's only an inch below your garters."

"For Heaven's sake, Mother! Do you want me to look like a monk?"

ALL OFF

Conductor—So your fireman broke off his engagement—I thought he was crazy about her—a case of love at first sight.

Engineer—Yes, but his second sight of her was in a bathing suit.—*Wall St. Journal.*

STRANGLE HOLD BARRED

"Help your wife," says a domestic expert. "When she mops up the floor, mop up the floor with her."—*N. Y. American.*

TRUE LOVE

About a year after Jim Smith got married, his wife said to him one night: "Jim, you do not speak so affectionately to me as you used to when we were first married. I fear you have ceased to love me."

"Ceased to love you?" growled the man. "There you go again. Why I love you more than life itself. Now, shut up and let me read the baseball news."

THE POLITE WITNESS

"You've heard what the last witness said," persisted the counsel, "and yet your evidence is to the contrary. Am I to infer that you doubt her veracity?"

The polite young man waved a deprecating hand.

"Not at all," he replied. "I merely wish to make it clear what a liar I am if she's speaking the truth."

DIFFERENT VIEWS

Father—You promised you would live within your allowance and you haven't done it. That shows how weak you are.

Son—No, dad! it shows how weak the allowance is.—*Boston Transcript*.

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Class of '28

SERVES HIM RIGHT

She tried to spurn,
He wouldn't listen;
Now he is hern
And she is his'n.
—Henry Mulner.

THOSE CHEERFUL WEDDING BELLS

Gourley—You're all beaten up again. Have another row with the wife?

Hensel—No, not a row—just the same old story. She's right and I didn't agree with her quick enough.

Stenographer—I see in the paper where a Kentucky woman, hunting a bear, when she found that three bullets wouldn't stop him, took a club and beat him to death.

Chief Clerk—Imagine coming home late to a wife like that.

WHO CAN TELL?

Canteloupe (at Dance)—Didn't I see you out on the balcony hugging some sheik?

Mrs. C.—It was so dark—I thought it was you dear.

Canteloupe—What time was it? Maybe it was.

Is a nation without women a stag nation?

CERTAINLY

Dumb-bell—That's a fine dog you have there. Is he clever?

Smarty—Clever! I should say so. When I say, "Are you coming or aren't you?" he comes or he doesn't.—*Wall St. Journal.*

AIN'T NATURE GRAND

Dame Nature's work is never wrong,
And she does many things;
She fills the mocking bird with song;
The cat with fiddle strings.

—*En-ar-co National News.*

THE USUAL WAY

"Is your wife shy about telling her age?"
"Very. About ten years shy."

—*Wall St. Journal.*

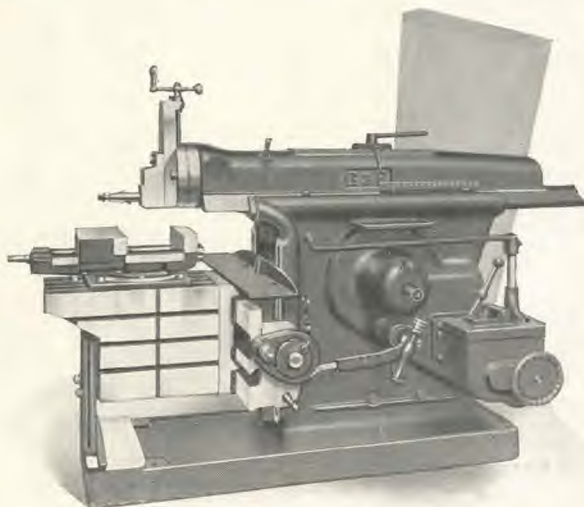
STICK TO IT

Chief Clerk—How did you like that jar of marmalade I sent you?

Stenographer—Oh! was that marmalade. I've been using it to paste photographs in my scrap book.

Hostess to gate crashers—Really, I cannot place you!

Gate Crashers—O, that's all right, we'll find seats.

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SUMMING IT UP

Accountant—I've added up these figures ten times, sir.

Chief Accountant—Good.

Accountant—And here are the ten answers.

OFFER DECLINED

"I want your daughter for my wife,"

He said. Replied old Wade,

"I have a wife already, so

I will not make the trade."

FINE CAR

"Tried your new auto yet?"

"Yes and had a fine ride."

"Go very fast?"

"Yes, but not as fast as the cop. That's where the fine comes in."—*Cap and Bells.*

YOU DON'T SAY SO

Collector—They say the new heavyweight champion has a vocabulary of twenty thousand words.

Guard—The old champions had more than that, but only about a dozen or so could be printed.—*N. Y. American.*

"Have you seen Oliver Twist, Aunty?"

"You know I don't approve of these modern dances."

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CLASS OF '27

Mrs. Murphy bought her lord and master a new highly polished nickel plated spittoon and set it by the chair where he was wont to sit and read the papers of an evening. He, however, was not used to such luxury and it wasn't long before he hollered, "Mary, if you don't get this—vase out of here now I swear I'll spit into it."

The inebriated gent stumbled and fell up against a barber pole. As he picked himself up he was heard to mutter, "That woman with the striped stockings can kick higher than any woman I ever met before!"

"What's that funny smell in your back yard?"

"Fertilizer."

"For the land's sake!"

"Yes!"

"Did you hear about the two Scotchmen who had a dollar bet on who could stay under water longest?"

"No—who won?"

"I dunno—the bodies haven't been recovered!"

"Stand still, cutie!"

"Can't, cootie!"

A rather green individual from the land of the midnight sun was arraigned before the judge. Part of the conversation was as follows:

Judge—What's your name?

Swede—Ole Olsen.

Judge—Married?

Swede—Yaw, Ay bane married.

Judge—Who did you marry?

Swede—Ay marry a voman.

Judge—Foolish! Did you ever hear of anyone that didn't marry a woman?

Swede—Yaw, my sister. She bane marry a man.

A man went to his doctor and requested treatment for his ankle.

After a careful examination the doctor inquired: "How long have you been going about like this?"

"Two weeks."

"Why, man, your ankle is broken. How you managed to get around is a marvel. Why didn't you come to me at first?"

"Well, doctor, every time I say anything is wrong with me my wife declares I'll have to stop smoking."

"He is happiest, be he king or peasant, who finds peace in his home."—*Goethe*.

AN EXPERT

My eight-year-old son came down to breakfast and his hands and face just had a "lick and a promise," as grandma used to say. So I said: "Come up to the bathroom, Ralph, and I'll give you a real good wash."

When he got to school, Miss Shine, his teacher said, "Why, Ralph, you certainly look wonderful and clean this morning. Who washed you?" Ralph said, "My father washed me this morning and say, if ever you want a clean bath and want to be good and clean, you just get my father. You will be clean all right when he gets through with you."—*Forbes Magazine*.

Employer (dictating to new stenographer)—If I'm too fast for you just tell me.

Stenographer—Goodness, no! My last boss had tried to kiss me by this time.

Father can't understand why there should be such a turmoil over outfitting a girl for college. From what he is able to observe, all she needs is a new pair of garters and a railroad ticket.

"How do you like my new trousers?"

"Well, there's lots of room for improvement in them."

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