The Class of 1926
Presents
THE 1926

KEM·LEC·MEK

THE ANNUAL
OF THE STUDENTS

COLLEGE OF ENGINEERING

ADMINISTERED WITH THE NEWARK TECHNICAL
SCHOOL BY THE BOARD OF TRUSTEES FOR
INDUSTRIAL EDUCATION OF NEWARK, N. J.

NEWARK, NEW JERSEY
VOLUME FOUR
Dedication

To

The Honorable Thomas L. Raymond
Mayor of the City of Newark
do we
respectfully dedicate
this volume
FOREWORD

In presenting to our readers this fourth volume of the Kem-Lec-Mek, we call attention to the fact that in departing from the style and size of the three previous issues of the book, we hope that we have produced a volume in keeping with the high standards and ideals of our College.

In the years to come we shall look back with fond remembrance upon the days when as members of the Class of 1926, we were entrusted with the task of publishing this annual. The many difficulties which we encountered while carrying out our work will be entirely obscured by the infinite pleasure derived from the effort we put forth to make this volume one which will please the most exacting reader.
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Nine
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AN APPRECIATION

There is no better place from which to interpret Dr. Colton's far-reaching life than from one of the maxims which guided him:

"I would be true, for there are those who trust me." The Doctor's life was well nigh an epitome of these words. He lived and moved and had his being in a sense of responsibility. In every thing he did one felt the reaction of a man toward those things which had been placed in his care. His unusual diligence, his thoughtful consideration for the welfare of his students, his interest in the graduates of the institution, the way he retained the confidence of the trustees of the school, and last, though by no means least, his unaffected modesty—all these tell the story of a man who bore seriously the weight of a sacred troth. And it was this above all else that made men believe in him and follow him. He taught by example rather than by precept, and students and teachers alike came to realize that earnestness of purpose was the dominant note of their beloved Alma Mater.

"Life is too short to waste,
'Twill soon be dark!
Up! mind thine own aim, and
God speed the mark!"
To whom we are greatly indebted for his invaluable advice and guidance during the four years we spent in the college.
THE DEAN'S MESSAGE

KEEP in mind that your profession or your business is not all there is in life. Granted, of course, that your professional advancement is important you must realize that certain qualities of heart, or character, are even more important than intellectual qualities or qualities of mind. What you are is vastly more important in the last analysis than what you know.

You properly aspire to leadership and to be a leader you must lead men, and men look for character rather than knowledge in their leader.

Do not confuse popularity with leadership, at heart it is very different. Men who are popular seldom lead very far and what they lead to is seldom worth much. Popular men strive to meet the desires of those they lead, real leaders strive to carry the men they lead far beyond their present desires to something more worth while. Leaders must have vision, they must see more clearly than those they lead, where they are going.

Our real leaders are sometimes, and at times, very unpopular; so do not let popularity bother you.

To be a leader three fundamental qualities are necessary.

Men must believe in you and have confidence not only in your judgment but in your intentions as well. That means that you must be honest with yourself as well as with your associates.

Men must be loyal to you and be willing to work with you even when the way that you follow does not seem quite clear to them. This means that you must have real sympathy, that you must be capable of really understanding the point of view of those you lead.

Men must respect you. They must know you are honest to yourself and to them, that you can see their troubles and difficulties clearly; and then real respect will come when they know that in addition you have the judgment and the courage and the manhood to stand by what you know to be right not for your own advancement but for theirs.
THE FEW

The easy roads are crowded,  
And the level roads are jammed;  
The pleasant little rivers  
With the drifting folks are crammed.  
But off yonder where it's rocky,  
Where you get a better view,  
You will find the ranks are thinning  
And the travelers are few.

Where the going's smooth and pleasant  
You will always find the throng,  
For the many, more's the pity,  
Seem to like to drift along.  
But the steeps that call for courage,  
And the task that's hard to do,  
In the end result in glory  
For the never-wavering few.

Edgar A. Guest.
TO THE FACULTY

As we pass from beneath the protecting portals of our dear old C. of E.—our degrees grasped tightly in our hands—we shall turn our thoughts to those who have made possible this long-awaited exodus which turns us out into the world graduate engineers, yet holds a certain sadness which we cannot help feeling. We realize only now that the task which we thought difficult—the task of learning—was insignificant as compared with the hardships encountered by those who daily strove to mold us into men worthy of representing the college.

To those men—our faculty—we express our indebtedness and appreciation for the patience they showed and the effort they put forth for our success.
ELECTRICAL ENGINEERING

JAMES C. PEET
E.E. (Syracuse)
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(University of Missouri)
Associate Professor of Electrical Engineering

ALBERT A. NIMS
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Ph.B. (Syracuse), S.B. (Mass. Institute of Technology)
Professor of Chemical Engineering

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Ph.D. (Johns Hopkins)
Associate Professor of Organic and Industrial Chemistry

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Instructor in Mechanical Drawing and Machine Design

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(Mass. Institute of Technology)
Professor of Applied Mathematics

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A.B. (Euphrates College), A.M. (Yale)
Associate Professor of Applied Mathematics

H. H. METZENHEIM
B.S., E.E. (Cooper Union)
Instructor in Mechanical Drawing and Electricity

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Professor of Physics

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INDUSTRIAL RELATIONS

F. W. LAVENBURG
Supervisor of Co-operative Work

ACCOUNTING

J. R. BOYLE
B.C.S. (New York University)
Instructor in Accounting

Twenty-one
OUR CO-OPERATIVE CONCERNS
WHERE THEORY IS LINKED WITH PRACTICE

CROCKER WHEELER ELECTRIC & MFG. CO.
DELAWARE, LACKAWANNA & WESTERN RAILWAY
DEXTER FOLDER COMPANY
E. I. DU PONT DE NEMOURS & COMPANY
GENERAL ELECTRIC COMPANY
GOULD & EBERHARDT COMPANY
IMPERIAL LAUNDRY COMPANY
NATIONAL LOCK WASHER COMPANY
NEWARK GEAR CUTTING MACHINE COMPANY
NILSON—MILLER COMPANY
CLYDE POTTS, CIVIL ENGINEER
PROCTOR & GAMBLE MANUFACTURING COMPANY
PUBLIC SERVICE PRODUCTION COMPANY
PUBLIC SERVICE GAS COMPANY
RUNYON & CAREY, ENGINEERS
SINGER MANUFACTURING COMPANY
SPLITDORF ELECTRICAL COMPANY
U. S. TOOL COMPANY
WESTON ELECTRICAL INSTRUMENT CORPORATION
ZIELEY PROCESSES CORPORATION
Period 1.
Eager Youth!
All ready he senses that:
"Success comes not without Soil!"

Period 2.
Eager Youth!!?
But now he seems
to doubt that:
"Work is Education"

Period 3...
Eager Youth(?)
Now a Junior co-
operating in the industry — and
such enthusiasm at times.

Period 4....
Success — and now
ready, Eager Youth
"To Tell the World"

Period 5....
And this was the
Niche he carved for
himself in the World;
eager youth.

Moral: Success is Not Gained in a tilted chair.
But today I leave the galley.
Shall I curse her service then?
God be thanked, whate'er comes after,
I have lived and toiled with men.

—Kipling.
SENIORS

FUTURE

Twenty-five
A rattle, a crash, a wheeze or two, a final shuddering gasp, and the Lodi Limited, nee Ford, has arrived on the campus. To the initiated, the sight of the occupant leisurely alighting from this conveyance of doubtful ancestry, is a warning that if recitations have not already commenced, the time is perilously close at hand when such will be the case.

Residents of the neighborhood set their timepieces by the cannon-like reports which signalize the arrival of Joe's trusty flivver, with full assurance that it is then nine o'clock, if not a shade later. While readily admitting that the miry and crater-like condition of Lawrence Avenue would have a devastating effect on any schedule, we seriously doubt if this highway hazard is the sole reason for the aforementioned, and other vagaries, which characterize the subject of this discourse.

We are rather inclined to attribute the latter to his constant and intensive application to his beloved text books, although this opinion is not universally accepted.

Good-natured and easy-going, Joe combines with his likeable personality, a considerable amount of common sense, and a tenacity which will undoubtedly carry him far in his undertakings.

His sterling performances on the basketball court will not soon be forgotten by those who were fortunate enough to see the captain of our 1926 Varsity team in action.
JOHN M. COE
75 Arsdale Terrace, East Orange N. J.

Course:
Chemical Engineering

Co-operative Concerns:
Procter and Gamble Mfg. Co.
Hanovia Chemical & Mfg. Co.
Grasselli Chemical Co.

Activities:
Baseball 1, 2; Editor-in-Chief Kem-Lec-Mek 4; Sec. Treas. Student Council 4; Member Chemical Society; Glee Club 1.

If the meek inherit the earth, Johnny ought to collect considerable real estate during his sojourn on this terrestrial sphere, for he is naturally unassuming.

To tell the truth, it was quite a while before we realized that J. Morrison was gravitating about in our orbit. But the "light that was hidden under a bushel" eventually burst forth with undimmed brilliance.

He firmly believes in those maxims—"Whatever you do, do well" and "Let well enough alone." This is best exemplified by an incident which occurred during a basketball game in which he participated for no particular reason. Finding himself in possession of the ball, in mid-court, and seeing no logical way of ridding himself of the encumbrance, he thought of maxim No. 1 and acting accordingly, increased his team's total by two points. Then, acting on maxim No. 2, he withdrew from the game so as not to mar his perfect record.

Once the sterling quality of Johnny's work became apparent, we saw to it that he was kept plentifully supplied with this commodity.

Up to the present he has adhered to his guiding slogans, but rumor hath it that his existing state of celibacy is about to terminate. If so, we certainly hope that his disregard of the second maxim will be more than compensated for by a thorough adherence to the first.
Just as Fred's father had convinced his son that the career of a dairy farmer up Chester way was an ideal vocational choice for a young man, he made the fatal error of installing an electric milking machine. Fred took one look at that machine and, presto, another embryo engineer was with us.

And what an engineer he promises to become. It did not take us long to realize that he possessed that "certain something" so essential in the composition of a successful student, technical or otherwise.

When the majority of us were floundering around in the morass of "math," and its kindred quicksands of "elec" and "chem," Fred was usually to be found high and dry, sopping up "book learnin'" in a manner which would cause any hard working sponge to shrivel with mortification at its own negligible powers of absorption. But don't get the idea that he is a "bookworm." Far be it from such. The knowledge corporation of Cox, Ditsch, and Rosenfelder Inc., of which he was president, had a penchant for declaring holidays on numerous, and sometimes inexplicable, occasions.

It would be useless for us to pretend that these sallies were for the purpose of investigating the corona discharge on high tension transmission lines, for they were not. Whatever their purpose, it is to be hoped that they furnished a more efficient outlet for excess energy than the disintegration of benches in a certain lecture room.
JOHN F. DITSCH
59 Sunnyside Terrace, East Orange, N. J.

Course:
Electrical Engineering

Co-operating Concerns:
Splitdorf Electrical Corp.
General Electric Co.
New York Telephone Co.

Activities:
Football 1, 2; Chair. Dance Com. 1, 2, 3; Chair A. A. Ex. Council 2;
Class Pres. 1, 4; Member Student Branch A. I. E. E.

In him we have our original little executive. Throughout the four years that we have been associated with "Jawn," we have never known him to do any more work than necessary, either manual or otherwise, if there were anyone present whom he could hypnotize into doing it for him. His certainly is the administrative type of intellect.

He is a member of the firm of Cox, Ditsch, and Rosenfelder, which, in our opinion, was organized for the purpose of relieving the faculty of the arduous task of examining three separate sets of papers, when a perusal of the "composite paper," and a check of the carbon copies, was equally effective and more efficient. The time thus saved enabled the personnel of the firm to attend Christian Endeavor meetings with unusual regularity and fervor.

As a relaxation from his arduous labors, John often sits up with sick friends. We encountered him strolling home in a pouring rain from one of these sessions recently, with a pair of rubbers tucked nonchalantly under his arm.

His many qualifications, including a scintillating command of his adopted English tongue, have made him a good pal, and a "knockout" with the women; and although this seasoned veteran of many tea fights maintains that he is not yet ready to depart from the state of celibacy, we have our doubts. That $40,000,000 heiress,—Hm-m-m.
EDGAR C. FISCHER
33 Oak Street, Belleville, N. J.

Course:
Electrical Engineering

Co-operative Concerns:
Newark Gear Cutting Mach. Co.
General Electric Co.
Public Service Electric & Gas Co.

Activities:
Basketball 1, 2; Football 1, 2; Track 1; Dance Committees 1, 2, 3, 4; Secretary Class 1; Chair. Parents’ Day Com. 4; Student Council Com. 4; Assoc. Art Editor Kem-Lec-Mek 3; Art Editor Kem-Lec-Mek 4; Member Student Branch A. I. E. E. Student Speaker A. I. E. E. Convention 4.

No, this is not Rudolf Valentino, optical impressions notwithstanding. Unanimously elected the class Beau Brummel, this Arrow collar example of sartorial splendor has caused feminine hearts to perform more weird acrobatic contortions than Brigham Young had wives.

Nor are his aesthetic features his only asset, for he is blessed with that elusive something which is popularly designated by that inadequate term, “personality.” Believe us, he gets ’em.

And can he dance? Hear ye, hear ye. This disciple of the terpsichorean art has a suit pending against St. Vitus, in which he charges infringement of patent rights. And that’s not all. Besides the aforementioned qualities, Edgar is also blessed with those twin gifts of oratory and mimicry.

He is equally at home when holding forth in his inimitable style for the entertainment of the members of the class, or when holding forth on the scholastic rostrum for the edification of the same classmates, and the faculty.

“Mighty oaks from little acorns grow.” But the concoctions by Ed of fearful and awesome dissertations from minute portions of data, rivals, not to say overshadows, this phenomena. And despite the fact that the “profs” are not noted for their gullibility he has been known to receive A’s.

He also plays the piano, but why diverge from our peon of praise?
The mercury plumbed the depths of the thermometer and as we hastily manipulated our slide rules in a frantic effort to determine whether or not we could spare another precious lump of coal from our rapidly diminishing hoard, we heaped mental vituperation upon the heads of the organizers of the coal strike. And as we did so, our thoughts naturally strayed to that other genius of organization, the "Sachem of Hilton."

Do we suspect "Al" of having been implicated in the instigation of the late carbonic unpleasantness? Perish the thought. His efforts have ever been directed toward the constructive, never the destructive.

The germination of an idea for the betterment of any phase of student activities was the signal which immediately stirred him to feverish activity. He seized upon it, nurtured it tenderly, and before long another organization had appeared in our midst.

For such is the man. The "Student Council" will be an ever present reminder to those who are to come, of one who has gone before.

"Al's" penchant for organization has naturally kept him well to the fore in the activities of undergraduate life, both athletic and social. His evenings were usually spent—but then, that's their affair.

Scholastically? To tell you the truth, as we gaze upon "Al's" grades, we sometimes wonder if someone hasn’t been "organizing" the profs!
"Have you a cigarette?" "A match?" "Thanks." By their words ye shall know them. Ego, our old friend and classmate, "Jack."

Speculation is rife as to whether he is saving up in anticipation of an early nuptial alliance, or whether he is dominated by the inherited traits of some remote Gaelic ancestor. It has been rumored that Jack's failure to transport the nefarious weed on his own person is a precaution against undue indulgence on his part. If this be so, his salvation is assured.

But seriously speaking, we have here the running mate of that other fashion plate, Edgar Carl Fischer. Honors in the contest for the conquest of "la femme" are about evenly divided betwixt the twain. Jack's principal weapons in the hunt are a vocabulary, remarkable in more respects than one, and a rapid fire method of verbal delivery which overwhelms, rather than charms, the quarry. What ever else may be said of this system, it must be admitted that it is effective.

Jack also firmly believes that if a statement can be made so complicated, as to be beyond the comprehension of even the "Profs," the later cannot dispute its soundness.

His resourcefulness, coupled with a generous amount of natural scholastic ability, have kept him well to the fore. May he remain there.
MARTIN J. MONAHAN
14 Crittenden Street, Newark, N. J.

Course:
Chemical Engineering

Co-operating Concerns:
Newark Gear Cutting Machine Co.
Chemical Company of America
Imperial Laundry Company.
Westinghouse Lamp Co.
Heller and Merz Co.

Activities:
Baseball 1, 2; Basketball 2, 3, 4;
Football 2; Track 1; Class Treas. 2;
Class Sec. 4; Class Representative A.
A. 3; Student Member Chemical Society.

When this quiet, unassuming son of Erin injected himself into our midst, he fairly exuded his ancestral aura all over the landscape. The verdant herbage on the college campus took one look at "Monny" and promptly turned sear and brown in tacit acknowledgment of a new ruler of the realm of the emerald hue.

Then he tackled chemistry—and oh, how he laid low the elusive carbonates and awe-inspiring eutectics! It may have been his triumphs in matters scholastic that gave him the impetus necessary to batter down the walls of modesty and restraint that surrounded his social self, or it may have been that constant association with the disintegrating processes of his beloved "chem" had the same effect on the aforementioned aura.

Whatever the reason, his background gradually changed from its original monotone and became a veritable rainbow. The test tube was discarded for the football, baseball, and basketball, the technical phraseology of Noyes was superseded by the flowery phrases of a Lothario, and as a climax to the transformation, the trusty right arm which had so long trundled a brief case, was to be seen efficiently, yea, even tenderly, piloting one of the "fairest" to our varied social functions.

Despite this transformation, his scholastic achievements have not deteriorated in the least. On the contrary, they have eclipsed his previous efforts, if this be at all possible.

Hail "Monny," scholar and vivant!

Thirty-three
ROBERT BARNEY NEWTON
117 West 20th Street, Bayonne, N. J.

Course:
Mechanical Engineering

Co-operating Concerns:
Singer Manufacturing Co.
Grasselli Chemical Co.

Activities:
Baseball 1, 2, 3; Basketball 1, 2, 3, 4; Football 1, 2; Track 1, 4; Glee Club 2; Member Student Branch A. S. M. E. 2, 3, 4.

One of the outstanding characteristics of that complex mechanism, which for the past four years has revolved in our midst under the name of “Barney,” is an exceptionally high moment of inertia. Once the arduous task of starting a machine of this type has been accomplished, it travels irresistibly on with no apparent effort, determinedly blocking all attempts to change the even tenor of its way.

It is our candid opinion that Barney was born tired. Unalterably opposed to the needless expenditure of effort, he nevertheless has been known to accomplish an astonishing amount of work, having once been aroused to the proper pitch, and got thoroughly under way.

He rose to immortal heights in performing the crowning achievement of his turbulent career, viz., continuous twelve hour boiler test, without casting as much as a single fleeting glance toward the beckoning arms of Morpheus.

Barney was exceptionally active in sports; football, baseball, and basketball being the orbits of the athletic firmament in which he scintillated.

On the basketball court, particularly, he was a non-pareil. His elusiveness on offense, and his sterling defensive tactics, were the despair of many an aspiring opponent.

We venture to predict that if he employs these same aggressive tactics in his professional career, he will score just as marked a success in this field.
From out of the West, unheralded and unsung, there appeared that mystic being of whims and fancies, that queer mixture of visionary and materialist, Francis Orosz. The fantastic schemes which evolved from his fertile brain upon the slightest contact with any of the numerous and varied theories in which he soon became entangled, won for him at an early date the sobriquet of "Steinmetz," which by popular consent was contracted to "Steinie."

As he was in the beginning, so has he remained until the end. Unchanged by the moulding process to which he has been subjected during the past four years, his untrammeled spirit still rises to glorious heights in hitherto undreamed of flights of fancy.

Slight in physique, but mighty in intellect, this crusader has, by his unfailing cheeriness and ever-present spirit of co-operation, endeared himself to those with whom he has been associated.

When all other sources of effort have been exhausted, this indefatigable bundle of energy turns for recreation to the intricacies of chess, at which gentle pastime he has demonstrated that he is without a peer in the undergraduate body.

Strange as it may seem, there is one mystery which has defied solution by this ardent disciple of research. But then, who ever claimed to understand women?
A group of men were clustered about a piece of paper inscribed with symmetrical columns of figures, and the atmosphere was charged with a feeling of tenseness and expectancy. From their midst emerged the following refrain. "The seventh is out." "So is the ninth,—and the tenth." "How about the twelfth?" "No?" "Well that leaves the eighth and the eleventh." "The eleventh wins!" The tension relaxes. The group breaks up, and—what? A lottery? Of course not. Merely the class of '26 trying to pick a meeting night that coincides with one of the infrequent open dates in Bill's ever crowded schedule of engagements. Are they all of a social nature? He claims not, but we have our doubts.

Behold that flawless haircomb, that cherubic countenance, that natty attire. Add to the above a persuasive eloquence, a pair of dancing feet, and a pair of hands that can transform an inanimate piano into a pitfall of romance, and then give us your candid opinion.

A casual inspection of this quiet, unassuming youth, would give the impression that he has devoted all of his time to becoming the adept student of engineering we find him today.

Still, that mud on the wheels of his gasoline chariot was never accumulated on the road between the college and the library.
HENRY OTTO PROBST
582 River Street, Paterson, N. J.

Course:
Electrical Engineering

Co-operating Concerns:
National Lock Washer Co.
Riverside Lighting Co.

Activities:
Baseball 1, 2, 3; Basketball 1, 2, 3, 4;
Junior Smoker Com. Class Vice Pres.
2; Class Treas. 4; Class Rep. A. A.
1, 4; Member Student Branch A. I.
E. E.

In "Shorty" you behold a man who is never quite so content as when engaged in verbal battle with someone of like ilk, preferably a "prof."

A rebel born, this minute descendant of the hardy Swiss mountaineers asks odds of no one when it comes to a debate on any subject whatsoever. Like David of Scriptural fame, he has laid low many a Goliath in combat, his verbal broadsides proving quite as effective as the immortal sling.

Someone once remarked of Shorty that he would rather argue than eat. However, like all things else connected with the man, this statement is subject to debate; for, undeniably, he has inordinate gustatorial proclivities. The kindred subject of "what to eat" and "where to dine" are favorite topics in his argumentative repertoire. Judging from the frequency of his attempts to lure the class ensemble to one of his pet masticatory haunts, we have our doubts as to whether argument rules appetite, or vice-versa.

One thing we must admit, and that is that this duplex course of training has developed both body and mind to such an extent that he asks odds of none of us.

Never judge a book by its cover, for the smallest of volumes sometimes contains an unlimited amount of valuable information. Just consider the case of our Henry.

Of late it has been rumored that he is preparing a thesis entitled, "An Argument in Defense of the Calorific Value of Century Old Swiss Cheeses." What do you think?
FRED W. RIEMER
99 Osborne Terrace, Newark, N. J.

Course:
Electrical Engineering

Co-operating Concern:
Weston Electrical Instrument Corp.

Activities:
Baseball 1, 2; Football 1, 2; Mgr.
Basketball 2; Class Vice Pres. 3;
Circ. Mgr. Kem-Lec-Mek 4; Senior
Ball Com. Member Student Branch
A. I. E. E.

"The opposing line wavered and crumbled, and foemen were flung hither
and yon, as a two hundred and thirty pound projectile hurtled thru their midst."

No, gentle reader, this is not a press dispatch from some bloody conflict in the
late lamented world fracas. It is merely a characteristic description of the events
that transpired when "Fritz" did his stuff on the football field.

Indestructible is the adjective which most fittingly describes this behemoth.
The casual manner in which he was wont to rise from some devastating scrimmage
with head "bloody but unbowed," occasioned the following inelegant, but never-
theless apt remark, from an onlooker, "He ain't human."

On the contrary, he is just that. With a heart modeled in proportion to
his physique, this genial giant has won for himself an en-
viable place in the esteem of his classmates.

As a relaxation from things scholastic, Fritz does not
go in for boiler-making, as may naturally be assumed. When
the intricacies of the vector diagram have released him from
their potent spell, he may usually be found either assem-
bling the microscopic parts of a meter, or witnessing the
dissecting tactics of the more prominent wrestlers. It's all
the same to him.

Also, saxophonically speaking, he is a bear. His duets
with Johnny Coe are balm indeed to the music fans.
Danny is another man who was not in our particular squad when we toed the mark for our four-year grind. Finding himself more or less unattached at the half way mark, he stood on the sidelines and waited until the right bunch came along, then calmly adopted us. Naturally, we think he showed excellent judgment.

Dan has dabbled effectively in most sports and the associated sciences, particularly baseball, football, basketball, and plumbing.

We believe that when a man reaches the stage of proficiency in any line of endeavor, he should receive the plaudits merited by his achievements. Therefore, it has not been uncommon to hear three rousing "Yea, Danny" or "Yea, Blowtorch" yells echoing over the campus when the news of another soldering record, established by Dan, reached our ears.

Reports from the co-operating concern at which he recuperates from his scholastic work, indicate that he is also quite a virtuoso on the automatic machines. This does not surprise us very much, since anything connected with machinery has a potent attraction for Dan. Just witness the gusto with which he wallows in the theory of Electrical Machine Design.

In view of all that has been said of him, we sometimes wonder if the final word of the "Bachelor of Science" phrase on his sheepskin should not be plural.
FRANCIS G. ROSENFELDER
198 South 10th Street, Newark, N. J.

Course:
Electrical Engineering

Co-operating Concerns:
Newark Gear Cutting Machine Co.
Public Service Electric & Gas Co.

Activities:
Basketball 3; Football 1, 2; Track 1;
Chair Junior Smoker; Senior Ball
Com. Class Vice Pres. 4; Member
Student Branch A. I. E. E.

Examine carefully the learned countenance pictured at the head of this page, and then tell us what, in your opinion, is the specialty of the possessor of said physiognomy. No, you are all wrong. "Rosy" is the champion "Charleston" dancer of the class of '26. In fact, we don't anticipate any serious contradiction when we claim the laurels of the entire institution for Frank in this particular respect.

If we remember correctly, this same young man was missing from some of our earlier social functions, because at that time he and Terpsichore were utter strangers. All of which goes to show just how much can be accomplished with the assistance of those twin aides-de-camp, perseverance and tenacity.

It may be that during the first hectic years, Frank was too busy laying a firm foundation for the edifice of knowledge later to be erected, to dally with the lighter things of life. Disregarding the motive behind the tactics employed, we must admit that the latter have proved effective. As a result, we have a man who combines dexterity of the pedal extremities with adaptability and resourcefulness of the cranial extremity.

His mechanical ingenuity is almost beyond belief. It has been rumored that Fords have been constructed from a few spools and the material which goes into the manufacture of cans. Frank, however, has eclipsed this achievement by constructing a "Super-everything" receiving outfit from the discarded remnants of a bridge lamp and a defunct alarm clock.
HERMAN ULANETSKY
128 Peshing Avenue, Newark, N. J.

Course:
Electrical Engineering

Co-operating Concerns:
Daven Radio Corp.
Smith Radio Service
U. S. Tool Co.
Venino Brothers
Splitdorf Electrical Co.
Public Service Prod. Co.
American Can Co.

Activities:
Baseball 2; Basketball 2, 3; Track 1;
Football 2; Member Student Branch
A. I. E. E.; Glee Club 1. (Patent
Pending on Meter Improvement).

All is tranquil and serene, the surface of the scholastic millpond is undisturbed
by even the faintest of ripples, when suddenly there is heard a determined voice
clarioning forth the now familiar battle cry of "I don't see that." "Ulile" is up in
arms again, and there is a general girding up of the loins in preparation for one
of the inevitable arguments as to either the precise interpretation of some choice
morsel of theory, or even the fitness of things as they be.

For this trait is characteristic of the man in question. He is a veritable hound
on the trail of knowledge, and, having once encountered the spoor of some elusive
habitant of the technological jungle, you may rest assured that the trail will not
be forsaken until the quarry has been stalked to its lair, and scientifically dissected.

Not only is it dissected, but subjected to a minute microscopical examination. This involves a train of mental
processes which we might explain in a more exhaustive study
of our subject. However,—

This having come to pass, the erstwhile troubled waters
are calmed, and peace descends benignly to smooth the
wrinkles from troubled brows.

Has the millenium now arrived? Perish the thought.
Down thru the ages at frequent intervals will inevitably
be heard that determined voice, clarioning forth the bat-
tle cry of "I don't see that."
Behold in him our baby. We do not wish to infer by this that Frank toddles about rending the atmosphere with infantile wails, or that he is in the habit of releasing lachrymose floods at frequent intervals. Merely, that having joined us at the commencement of our Junior year, he is the latest addition to our family.

We wonder what makes him so quiet. Perhaps it is the fact that he has had more occasion than the majority of us to rub elbows with the monsters that prowl about the industrial jungle seeking those whom they may devour. It has been rumored that they show a marked preference for aspiring engineers.

But cheer up, Frank. We hope that we do not appear boastful when we say that some weapons have been forged during the past four years which are bound to leave numerous scars on the pelts of these prowlers.

Feel better now? That’s the stuff, smile. There’s something contagious about that grin. When Frank limbers up his facial members and displays his molars, we are certain that his gravity is only assumed. We wonder if he realizes what a placating effect that smile has upon a militant “prof” in quest of overdue experiments. See him smile?

It is undoubtedly true that the “soft answer which turneth away wrath” is an effective defensive weapon, but this combatant obtains the same, or even greater, results by showing his teeth.

Undoubtedly he is more “Frank than Ernest.”
THE ENGINEER AND THE PUBLIC

WILLIAM H. RIPLEY, A. B., E. E.

"It is a cruel mortification in searching for what is instructive in the history of past times, to find the exploits of conquerors who have desolated the earth, and the freaks of tyrants who have rendered nations unhappy are recorded with minute and often disgusting accuracy—while the discovery of useful arts, and the progress of the most beneficial branches of commerce are passed over in silence and suffered to sink into oblivion."

Ewbank, "Hydraulics."

There are two professions that have suffered in public esteem through over-modesty—medicine and engineering. Both, being highly specialized, demand a degree of concentration that seems incompatible with that course of self-assertion and publicity-seeking which are so characteristic of the legal profession. Even though the engineer's work is very largely concerned with public utilities, the names of the technical men connected with such projects have been usually less prominent than those of the authorities or financiers. This condition of things is gradually being improved through the efforts of the profession itself, especially by the good work of the civil engineers. The engineer should endeavor to make himself more prominent as a force in the community than has been the case up to the present time, and for two reasons. First, the prevailing standards of compensation for engineering services are notoriously low and can be raised only by elevating the position of the engineer in the public esteem. Second, the importance of his work and his actual value to the public are fully equal to those of any other profession.

The keynote of present day practice is efficiency. We have been obliged, through the conditions brought about by the war, to take account of our resources as a nation and to look into the conditions under which we have been carrying on our construction and manufacturing. This examination, spread over several years, and carried on by several national bodies, has confirmed the opinion of Herbert Hoover and others that we have been both wasteful and inefficient. The young engineer of today, therefore, enters a field in which he is expected not only to find a solution, but to find the best solution for a given problem in which cost is more than ever a prominent element. The increasing demand on the part of investors for expert advice in technical matters, has made it necessary for the engineer of today to become familiar with the banker's way of looking at industrial investment. The banker has been driven to a position of more dependence upon technical advice by unfortunate experience. It is only in recent years that industrial investment has entered to any great extent in the operations of the money market because "industrials" were for a
long while considered risky. It is necessary, therefore, that the technical man prepare himself to talk understandingly with financial people in terms of capital charges, depreciation, obsolescence and sinking fund.

Probably the most insistent question of today is that of transportation. It touches in its ramifications every community and every class in the country. The methods and the means of moving merchandise and people at present in use, no longer fit the conditions and we are entering upon an era of radical change. The mechanical and electrical fraternities will dominate in this situation, and both will be required to consider elements in the problem that are apparently far afield from their usual studies. In railroading, for example, there exists an enormous amount of mental inertia which is inherent in the old traditions of steam railroading. It will be the task of the young engineer in this field to convert the old style railroad man, including the executive, as well as the operating departments, to new views.

The transmission and distribution of energy and the development of interconnected sources of energy is a field which calls for studies outside of the purely technical field, such as relations between municipalities, states, geographical areas and the relation of the Federal Government to the question of conservation. In these relations the engineer finds it necessary to learn something of "practical politics" in both the worst and the best meanings of that term.

While it is commonly assumed that public service involves a sacrifice, this idea is no longer correct. The various fields in which the technical man can nowadays serve the public have developed into opportunities for the display of the highest professional qualities, and the rewards and honors from such service are steadily becoming higher.

In every class of engineering students there are apt to be a few whose inclinations are more toward research than design. Research work has become more important with every year, and it brings with it distinction and personal satisfaction.

Of the topics relating to the personal relations of the engineer in both construction and industrial engagements, one of the most important is his relation to the worker. The engineer's duty is, of course, primarily to his employer and to his job, but his daily work brings him more or less in contact with the man at the machine. There is no longer any question as to the proper relation between employer and employee so far as it affects the engineering profession. While mistakes have been made on both sides, the tendency is steadily toward better and more stable relations and a recognition by both sides that co-operation, mutual understanding, is the true solution. The engineer's position in all this development is a fortunate, if somewhat delicate, one. He should tactfully refrain from any activities that exhibit bias toward either side. A number of local and temporary difficulties in labor relations have been adjusted through the efforts of technical men, who can bring to such questions the impersonal attitude and the professional instinct for analysis of the situation necessary to fair judgment.
The situation within the profession, as regards salary and advancement, is being handled by organization, but organization along lines very different from those followed by organized labor. The Association of Engineers is accomplishing excellent results and merits the support of the profession.

What the professional man has to contribute to the public welfare as an individual would make a long story if detailed completely. He brings to his work a trained mind and a fund of exact information which are not the equipment of the man in the street.

There are not very many “quacks” in the profession, although there are irregular or unethical practitioners to some extent. It is the manifest duty of the technical man to expose fraud and deceit whenever he finds them. There are all degrees of fraud, some so ingenious or on such a scale as to require much missionary work to combat them. A favorite petty fraud is the fuel regenerator. This appears at intervals—a powder or a liquid to be added to ashes, producing a further combustion and more B. T. U’s. The chemical engineer knows that oxides are at the bottom of the scale of potential so far as oxidation is concerned, but the public does not. The mechanical man will look at schemes of this kind as the attempt to erect a power wheel in the still pool below a water fall.

When we come to the field of the big fraud, the case calls for proportionately greater exertion by the trained man and correspondingly greater satisfaction. Consider, for example, the huge irrigation projects of the desert country in the West. Stock selling in technical schemes should always excite the suspicion of the engineer.

The American genius for standardization and quantity production has developed fields for ingenuity and resourcefulness that call for the highest degree of professional skill in many directions. There is one side of this situation, however, that is not healthy.

The designer is always under restrictions and hampered in his development by the conditions growing out of standardization. This fact is noticeable both in the manufacturing end, and in the construction side. Almost the whole field of engineering along mechanical and electrical lines is dominated by the “stock” or standard equipment developed to approximate average expected conditions in the field. The effect of this control has been to rob many projects of the charm of novelty and to take off the edge of professional keenness. Too much technical advice is of the salesman or “go-getter” type. In his best aspect, the engineer is not a player of dominoes but a creator, an artist. The quality of vision, the joy of accomplishment which its exercise brings, and the development of the man in professional maturity are not at their best in the atmosphere of the repeat process. It is not difficult to obtain employment with one of the big companies in mechanical or electrical equipment, but the connection is not without the hampering conditions above suggested. The engineering office reflects, to some extent, the same
influence. Occasional reading of European engineering publications will bring out, by contrast, something of the condition hinted at above. The European engineer is still a good deal of an individualist and a great deal of an artist as well. Other elements besides factory ideas enter somewhat into this matter. In this country, materials are relatively cheap, while labor is high. In Europe the reverse is true. Design, therefore, is more highly refined over there than here, as it affects efficiency—this is especially true of France, and is most noticeable perhaps in French bridges.

To students, the subject of design naturally brings up the question of proprietorship in invention. The subject is doubtless covered in the lectures you have had on ethics and contracts. The terms of employment, in most technical concerns, make clear that you are employed for the purpose of designing improvements and working out set problems. The results are what the employer is after when he engages you. Any notable improvement which goes beyond the strict terms of your employment will usually be the subject of an equitable arrangement made specially as the case comes up—a royalty for example. This should be suggested promptly while the case is fresh. Any idea that is of your own origination, and particularly if not strictly in the line of your work, should be handled by you at home and not in the employer's time. Any time or materials belonging to the employer that are used in a personal project will give him a presumptive interest in the reward of your labors.

Do not fail to consider the investment and risk entailed in developing a new idea and reducing it to practice and, above all, do not see millions in any stray idea that enters your head. The state institutions receive some of their guests as a result of this line of thought.

It is quite the fashion, and has been from of old, to discuss the personal qualities that the engineer should possess. A great deal of such preaching is more oratorical than useful, especially as character is a growth and not a garment. The same honesty to self which manifests itself in clear thinking and conclusive thinking is perhaps the touchstone for character. There is one matter however to which the writer would advert, lightly, but from full conviction.

An examination of a number of under-graduate publications from technical schools, published since the war, discloses a growing coarseness and vulgarity in the jokes, which may or may not indicate a condition calling for caution. The writer was present at an important conference a few years ago between the vice-president of a big corporation and the owner of the patent rights in a valuable machine.

The conference was attended also by the chief engineer of the corporation and things looked fairly favorable. Suddenly the vendor made a disgusting remark. The vice-president nodded to his engineer and they walked out—the conference was not renewed and the rights have not yet been placed. The vice-president was

Forty-six
not a crank, but he instantly concluded that the man he was dealing with was not big enough, responsible enough—whatever you will—to be a safe person to enter into relations with in a matter involving a very large amount.

In conclusion, the writer would say a few words on the industrial and engineering future of Newark. The natural advantages and rapidly developing industries of the city and district point to a time not far away when Newark will be the largest industrial centre of the East. The graduate of the College of Engineering is therefore in a position of tactical advantage. Through his co-operative work he has become familiar with, and known to, some of the industries making history for the city. His Alma Mater is herself a source, potential and increasingly actual, of the coming supremacy of the city and the glory of the future city will be also hers.

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Honor and truth and manhood—
These are the things that stand,
Though the sneer and jibe of the cynic tribe
Are loud through the width of the land.
The scoffer may lord it an hour on earth,
And a lie may live for a day.
But truth and honor and manly worth
Are things that endure alway.

Courage and toil and service,
Old, yet forever new—
These are the rock that abides the shock
And holds through the storm, flint-true.
Fad and folly, the whims of an hour,
May bicker and rant and shrill;
But the living granite of truth will tower
Long after their rage is still.

THEO. OLSON.
The ending of this semester brings to a close three years of active college life. Most of us remember that it was only a short time ago that we entered here to take up this new life. Three score we numbered then when we began this journey, all with equal opportunity, all with a common end in view, namely, to gain knowledge.

Three years are passed and here we stand today decreased in number by more than half, but slightly strengthened by seven members entering from the night school. In joining us they found no trouble in getting in step, and they are now thoroughly one of us.
To give all a better understanding of ourselves, we wish to give you a bit of our past activities at college, both social and athletic.

In our Freshman year, to begin with, we won the Sophomore-Freshman football game. We were not so successful in basketball that year, and we are sorry to say that we also lost the tug-of-war. Under Mr. Roberts' guidance, however, we won out in the cane-spree matches. Socially we were pioneers. We were the first class ever to give a Freshman Dance, and indeed surprised the faculty in giving such a successful affair.

As Sophomores we were again victorious on the football field. We also showed a marked improvement in our game of basketball with the Freshmen on Parents' Day. We again surpassed in the cane-sprees, but it seemed impossible to win the tug-of-war. The basketball season showed us in the van supplying varsity men for the team. The Thanksgiving Dance, which was the first dance to be held in the gymnasium in the Academic Building, was, in all senses of the word, a success.

These events bring us up to the present year. Due to the co-operative work, the only sport in which we participated was basketball. We scored quite heavily, winning every game we played at this sport. This year again found us supplying important men to the varsity team.

The social event of the season for us was the Junior Promenade held on February 19th at the Woman's Club of East Orange. The affair was, on the whole, a great success. The Smoker was given as usual, in honor of the incoming Freshmen. Plenty of refreshments in the form of cider and doughnuts were on hand. Let us not forget the enjoyable evening spent by the class and Mr. Roberts, our class adviser, at the theatre party and the somewhat informal get-together at the restaurant later. As this was the only chance for some members of the class to meet some of the others, due to co-operative work, it was taken advantage of, and a big turnout was the result.

We have another year before us, and we shall endeavor to uphold our class spirit and carry on in such a manner as to surpass all that we have done in the past. Although we feel that we have done our very best in the past, it is always well to strive to do better.

IN MEMORIAM

GEORGE W. DITZEL

In memory of our classmate, whom we lost during the summer recess of 1925.
THE CLASS OF 1928

The class of 1928 entered the portals of its alma mater on September 22, 1924. With the “first day” feeling gone and the traditional Freshman Rules holding us together for the sake of safety, the Class of ’28 was organized. The shearing of one of our flock led us to believe that the rules were not a passing joke, so we took care not to let the white socks become dirty, nor the green ties faded. We had another jolt when the Soph football team met us on the gridiron, but the Smoker eased our aches and pains acquired during the game. The men, now fully acquainted with each other, set out to be revenged for their football defeat. The Frosh basketball team gave the upper class teams a surprise by defeating the Varsity team. Parents’ Day, the open day at the College, held only one consolation for us; we pulled our heavier opponents across the line in the tug-o-war.
With the mid-years over, there was a lull in the class activities until the exam returns were known. Then, with all worry over until the finals, the baseball season started. The Frosh team showed the spirit of the Class by defeating the class of '27 and the Faculty. Our victory over the Sophs was ample consolation for our defeat in the football game. Then the final exams and industrial problems brought a flurry of excitement that lasted until June 19, the end of the second semester.

On September 22 the main entrance of the Academic Building was a melee of milling freshmen and "story-telling" sophomores. All the various co-operative concerns were discussed from the standpoint of actual experience. We adopted the Freshman Rules of the preceding year as a step towards retaining them as a college tradition. Then, on a memorable afternoon following a theme period, we tagged and assessed each member of the incoming class, besides providing him with a set of the Rules. Assuredly the Class of '28 did not excell on the gridiron, for we were again defeated; this time by the newcomers. The basketball season followed, and the class made up two teams to enter the intra-collegiate league. Both teams made a good showing against their opponents. The Freshmen had a number of teams and some star prep-school men, but one of the Soph teams finally carried off the Intra-Collegiate Basketball cup. Parents' Day came, and we were determined that we would make a better showing in the second inter-class meet. We were not disappointed, for all three divisions of the cane sprees were Soph victories. The hard-fought basketball game came to a close with the class of 1929 the winners. Finally the tug-o-war was staged on the old battleground in a flurry of snow. We remembered our Physics of the previous year and, lying low we pulled the freshmen across the line. After the events were over, we celebrated with a theatre party and broke up for the holidays.

The coming of Spring turned our thoughts to baseball, and other matters. The class discussed baseball at the meetings and "the other matters" on the front steps. The baseball team was somewhat depleted, but the class looks forward to a season rivalling that of its freshman year.

As a whole the class has been successful in all respects, socially, scholastically and athletically. It has been instrumental in starting the track squad in the College, and our glee club has already been recognized by the College as a class institution. So, we as upper classmen shall be proud to look back on the past activities of the class of '28.
The morning of September 21, 1925 found the Class of '29 in the hall of the Academic building presenting a somewhat scattered and dazed appearance. The expressions on the faces of most of us showed plainly that we were all thinking of one thing, "What was going to happen next."

Well, it wasn’t long before we found out. After an uneventful first day in classes, during which we became acquainted with some of the faculty and with the workings of the College, we thought the day was over at four o’clock, but no. The high and mighty (?) Sophomores barricaded the lecture room door and proceeded to distribute gratis (one dollar "to cover cost of mailing") caps, ties, and copies of the revised code of rules for Freshman. As a result, for the next two weeks we appeared...
at school in full dress. Upon this matter the Sophomores were very strict. Some of us were subjected unwillingly to the well known “tonsorial operations” for disobeying rules. Then came the football game. After a hard fight the Sophomores were decisively beaten. That night most of us attended the Junior Smoker, which was a very jolly affair. Oh, my yes! The next day the white socks were conspicuously absent. We were highly elated over our victory in the game, so much so that some of our bolder members charged the front steps, but without success. A number also complained of the quality of neckwear provided by the Sophomores, and the upshot of the matter was that about fifty ties were consigned to the flames. The rest of them followed the socks into the land of departed souls.

Meanwhile we held a class meeting and elected officers. They were J. Irving, President; A. Puishe, Vice-president; W. Beveridge, Secretary; and G. Hiltbold, Treasurer. Mr. Schweizer was chosen faculty adviser.

In the Parents’ Day exercises we introduced the College to the Freshman Dance Orchestra, which contributed several numbers to the program of the convocation. After lunch the Freshman basketball team proceeded to administer a beating to the Sophomore team. Not to be outdone, the Sophomores came back and won the cane sprees and the tug-o-war, in all of which they had the benefit of previous experience.

After the Christmas vacation we began to look forward hopefully (?) to the mid-year examinations, those long, beautiful—oh, well, the might have been worse. When the storm had blown over, we crawled from beneath the wreckage and, upon calling the roll, found that about one quarter of our comrades were missing from their usual places, gone whither we know not.

When we had sufficiently recovered from the shock we managed to get as far as adopting a constitution and electing V. Drake to replace Hiltbold as treasurer.

With so many men to pick from, it is not surprising that we have been able to dig up several athletic luminaries. In the interclass basketball competition preceding the Parents’ Day classic we had six teams in the field. Out of these we organized the Freshman team, which defeated the Sophomores, besides engaging in several outside games. Some of its members were on the Varsity team. With the advent of spring we turned our attention to baseball. Plans were made for a Freshman nine and a manager was elected.

In conclusion, we should like to say that we appreciate greatly the efforts of our faculty to instruct us in the knowledge that will make us good engineers. We realize that they and Dean Cullimore are giving every minute of their time to make us better men, and we wish to give them all possible support so that their aims may be realized. We are here to get all the good we can from this school. To do this it will be necessary for us to put forth our utmost efforts, for nothing can ever be gained without hard work. We must co-operate with the school in every possible way to aid in its work and no matter what may be the time, place, or circumstance we will never forget that we are not students, not engineers, not class mates, and not workers only, but all these things combined—men.
TREASURER LARRY KOCHE WILLHARDT  
LOOKING FOR CLASS DUES  
FEW CHICKENS WITH HIS LIZZIE

WONDER IF TOBLER DEVELOPED HIS SPEED RUNNING AWAY FROM GIRLS?

CO-OP. PICTURE—WILSON HULL AT HIS LATHE

GEORGE KANE IN HIS LEISURE TIME

PICO & HIS HAIR

"NICE COW, COME BOSSIE. BE REASONABLE."

"HURRY UP, BOB, AND GET HER OFF THE TRACK!"

PATTON & JENKINS HAVE BIG JOBS WITH THE D.L. & W.R.R.

Fifty-six
ACTIVITIES
THE STUDENT COUNCIL

THE Student Council is a representative organization consisting of members from the four classes and from the various organized groups within the college. Its duties are to discuss and settle, if possible, all non-scholastic questions concerning the student body. The following members are automatically elected each year: Presidents and Vice-presidents of the four classes; President of the Athletic Association; Editor of the Kem-Lec-Mek; Editor of the Technician; Manager of the basketball team; Manager of the track team; Manager of the baseball team; President of the A. S. M. E. chapter; President of the A. I. E. E. chapter; President of the Chemical Society chapter; and President of the musical club. This year’s officers are:

President .................................................. Albert S. Kopf '26
Vice-President ............................................. Harry W. Dierman '27
Secretary-treasurer ...................................... John M. Coe '26
Assistant secretary ...................................... George W. Dorn '28
EARLY in the history of our College, the mechanical engineering students manifested an interest in this profession which resulted in the formation of the Mechanical Engineering Society. Through the persistent efforts of the members of the society, a charter was finally obtained on February 4th, 1925, from the committee on college relations of the American Society of Mechanical Engineers, thus instituting a student chapter at our college. The news of the decision of the committee was enthusiastically received. Since this time, our student chapter has functioned much after the fashion of the parent organization, holding meetings about once a month at which papers on technical and general engineering subjects are presented and afterwards discussed. Papers by student members, rather than by outsiders, are featured.

Membership to our student branch is open to mechanical engineering students in the three upper classes. Graduates of the Newark College of Engineering are entitled to restricted membership, gratis, for two years after graduation. Students of the freshman class, and the electrical and chemical students, are invited to attend meetings and take part in the discussion of the papers presented.

Membership in a student branch of the American Society of Mechanical Engineers carries with it many advantages both to the student and to his organization. Among these are (1) The opportunity for development in public speaking, by presenting before an audience engineering matters, speaking extemporaneously, and stating propositions clearly and convincingly. (2) The opportunity for discussion of papers presented, thus stimulating the mind by coming in contact with people of like interests. (3) The contacts which a student makes with the senior members of the society, many of them leaders in their profession. (4) The receipt of the "A. S. M. E. News", the official bulletin of the society, issued monthly. (5) The privilege of using the Engineering Library. This also allows the student member to purchase at half price any paper published by the society. (6) The aid of the Employment Bureau in securing positions having an opportunity for advancement and offering profitable returns. Other advantages to the student as well as to the college could be enumerated.

The American Society of Mechanical Engineers takes a genuine interest in the student branches. Our chapter has profited considerably by the suggestions of the parent society. Joint meetings with other student branches are especially encouraged by the society, since it affords to the student members an opportunity for meeting men and helps to develop the social aspect of the organization. Up to the present time, our branch has held no joint meetings, but plans for the future include this feature.

On March 24th the joint metropolitan student branches held their annual convention, which was the second one at which our chapter was represented.
STUDENT CHAPTER A. I. E. E.

The Electrical Society of the Newark College of Engineering was organized in December 1925. The students of the Electrical Engineering Department were unanimously in favor of organizing a student branch of the American Institute of Electrical Engineers. In order that the good name of our college might be upheld, it was decided that as soon as it was operating successfully a temporary society would be formed with the intention of affiliating with the American Institute of Electrical Engineers.

A meeting of the electrical students of the college was held on December 8th for the purpose of organizing such a society. Mr. Bush was elected temporary chairman. A general discussion of the other societies of the college ensued, with the object of profiting from their experiences. Professor Nims expressed his views of the subject and assured us of the hearty co-operation of the Electrical Engineering Department. A constitution committee, composed of Messrs. Mayer (chairman), Cox, Probst, Weinstein, Wolpert, and Geiges, was appointed by the chairman. The constitution was presented by the committee on a meeting on December 17th. It was accepted with a few corrections.

Now that the organization was complete, the society progressed rapidly. Interesting and instructive programs were delivered by prominent engineers of the city, members of the faculty, and the students of the college. Mr. P. Betts, Chief Engineer of the New Jersey Public Utilities Commission, presented an excellent program on Public Utilities. His lecture was illustrated by slides. Mr. Eddy, Street Railway Engineer of the New Jersey Public Utilities Commission, presented a program on Electric Railways. This lecture was also illustrated. Professor Brooks delivered a very interesting lecture on Industrial Management. A student program was presented at the New Jersey Automobile Club on February 3rd. Mr. John Ditsch gave a talk on Earth Power, Mr. Edgar Fischer on Tidal Power, and Mr. Henry Probst on The Manufacture of High Power Spring Washers. At another student meeting, Mr. F. W. Riemer talked on Wind Power, and Mr. F. W. Speckman on the History of the American Institute of Electrical Engineers. On March 24th, Mr. S. Fishman gave an illustrated lecture on Magneto, and Mr. W. Condit on Battery Ignition Systems.

The society accepted an invitation to participate in the convention of the Student Branches of the American Institute of Electrical Engineers of the Metropolitan district. The convention was held on Friday, April 23rd. In the morning the members visited the Bell Laboratories. In the afternoon, a meeting was held at the Engineer's Building, New York. At this meeting Mr. Edgar Fischer presented a paper on The Co-operative System, from the Students' Viewpoint. A supper at the Fraternity Club and a joint meeting with the New York Section followed. Our chapter had charge of the programs, decoration of the auditorium, and seating the students at the supper. Mr. Rosenfelder was in charge.
STUDENT BRANCH
OF THE CHEMICAL SOCIETY

DURING the early part of the school year the students of chemical engineering of the College felt the need of a society for the promotion of their education. On January 8th, 1926, the first meeting was called, a temporary chairman was elected, and plans for organization were discussed. At the next meeting officers were elected and a Constitution Committee appointed. In the following monthly meetings the constitution was discussed and was finally accepted.

It is the intention of the Society to become a student branch of the American Chemical Society. In order to accomplish this, it was necessary for the members to join the American Chemical Society thru the New Jersey Chemical Society, which is the North Jersey section of the above organization.

At the March meeting of the American Chemical Society, the names of the Charter members of our chapter were proposed for membership, and upon motion of the Chairman of the Membership Committee, the Society elected nineteen students as Associate members.

The Society now has plans under way for the securing of a charter from the American Chemical Society as a student branch. Incidentally, this will be the first student branch in the country—something for our Alma Mater to be proud of.

It is the purpose of this Society to bring together the chemical engineering students of the College and permit them thru association with one another, and thru talks by prominent chemists and engineers, to better fit themselves for their chosen profession.

Many speakers have addressed the Society at their meetings. The Program Committee has had the good fortune to secure Dr. David Wesson, Chairman of the New Jersey Chemical Society, as our first prominent speaker. The Program Committee also has plans under way for a joint meeting of all the Societies of the College.

The student derives many advantages thru his membership in the Society. He receives the benefit of instructive talks by successful and prominent men of his profession. He has the privilege of attending any of the meetings of the American Chemical Society. He is able to secure all the publications of the American Chemical Society at reduced rates. He has the opportunity for the development of public speaking thru the presentation of papers before the Society. Many other advantages to the student could be enumerated.

The Society is indebted to our Dean, Mr. Cullimore, for his kind assistance in the inception of the Society in the College.
ΦΔΖ
1920
In Collegio

Louis Balenson '27
Ralph A. Brader '28
Edward S. Bush '28
Charles H. Clarendon '29
Ray J. Cox '28
George T. Deaney '28
Harry W. Dierman '27
George W. Dorn '28
Vernon O. Drake '29
William H. Falconer '28
James A. Gibbons '28
Frank P. Goldbach '28
Thomas F. Groll '29
Wilson R. Hull '27
John E. Kane '27

Walter J. Kastner '29
Lawrence Koch '29
Albert S. Kopf '26
John L. Kuhn '28
Herman P. Lenk '29
William J. Opdyke '27
Henri V. Precheur '27
John McF. Roche '28
Clarke H. Shaffer '29
Arthur Spinanger '28
Joseph H. Townsend '29
J. Kenneth Van Brunt '28
Edward S. Weinstein '27
Frederick S. Wolpert '27

Sixty-two
ALTHOUGH Beta Alpha Theta fraternity was organized but four years ago by six students of the College of Engineering of the Newark Technical School, it is now an example of a well organized fraternity, to which all can point with pride. Modeled along conservative lines, which would be an asset to any institution, it has done much to bring members of the college into a spirit of true fellowship. From the nucleus of six, our ranks have increased to thirty-three, including alumni.

The alumni, although no longer active members of the college, are the "backbone" of the fraternity, as they are best able to advise the less informed student members.

As is its custom the fraternity held its annual formal dance on November 24, 1925, which was attended by members of the faculty and student body.

Realizing the advantages of a truly local fraternity, Beta Alpha Theta has been conducted by members coming only from the student body of the College of Engineering. This plan is highly successful, and probably will be continued indefinitely, since all members will have one ideal—the supreme ideal—their Alma Mater.

The true spirit of a fraternity is brotherhood, and Beta Alpha Theta invites the co-operation of all other college societies for the advancement and welfare of the institution as a whole.

ALUMNI
Gustave H. Bjorklund '23
Donald K. Craig '23
Frederick C. Fraser '23
Milton Holmes '23
F. Raymond Fogel '24
Lawrence J. Patterson '24
William Perrine '24
Frank W. Borman '25
Donald S. Collard '25
Frederick M. Damitz '25
Frank A. Jillard '25
Lester D. Smith '25
William D. Vander Schaaf '25

ACTIVE MEMBERS
Charles J. Lee '26
Howell B. Axtell '27
Arthur Booth '27
H. Rupert Le Grand '27
Howard G. Patton '27
Albert A. Van Voorhees '27
Russell R. Winans '27
Henry K. Hamje '28
Jerome E. Hequembourg '28
Robert M. Meyer '28
F. Murray Paret '28
Paul L. Cunliffe '27
Lester Dunn '27
Robert W. Jenkins '27
Gustave R. Weidig '28
W. Lile Fleetwood '29
Charles P. Hurd '29
Malcolm W. Mitchell '29
Alfons Puishes '29

DECEASED
F. Murray Paret '28
Herbert B. Pollard '25
TWO years ago the Newark Technician had its inception in the mind of Allan R. Cullimore, the Director of the College. At that time it was his purpose to feature the various co-operating plants and their relations with the College. Little space was given to the College activities.

At the beginning of this year, the management of the paper was placed in the hands of the Junior Staff of the Kem-Lec-Mek by the Dean, as he thought it would be good experience in journalistic endeavors, and a preliminary training for the publication of the Year Book, the next year. Reporters from the various classes were selected by the staff, and in addition, members of the Faculty and the student body contributed special articles so that the Technician has really become a College paper, of the students, by the students, and for the students.

Copies were distributed not only among the students but also among the Alumni, evening school students, cooperating plants, and preparatory schools.

As this was the first attempt of its kind in the history of the College, great credit must be given the staff for its success. Credit must also be given to the student body for their loyal support, without which nothing could have been done. Finally, if it were not for the Dean, the paper might not have been started, and certainly could not have succeeded.
Most colleges are brought to the attention of the public through the medium of one or another of their athletic teams. A small group of athletes is the advertising billboard of the great majority of higher institutions of learning. Contrary to such precedents and traditions as set forth by the older colleges, this institution fosters athletics for the sole purpose of conditioning the body so that the mind may function with the highest possible degree of efficiency. With this one idea in view, the Athletic Association has promoted athletics in such a manner that the entire student enrollment might benefit thereby.

The Athletic Association is governed by a set of officers who are elected annually by the student body. The President, Vice-President, Treasurer and Secretary form the group of officials of the association proper. The Chairman of the Executive Council, also elected by the student body, is the presiding officer at meetings of the governing body of the association. As the constitution of the organization provides for only three regular meetings during the school year, the great majority of the business is brought before and disposed of by the Executive Council.

This Council, from which the presiding officer is chosen at the annual elections, is composed of two elective representatives from each class, the secretary and treasurer of the Athletic Association and the two faculty advisers. All business, with the exception of the election of association officials, must be brought before the council. Names of
candidates for managerial positions on the varsity teams must be placed before the group, and are duly voted upon by the members of the council. The governing board approves or disapproves of the tentative schedule for varsity competition. Upon approval by the representative group, the manager of the team in question then arranges his schedule in accordance with the approved list. All contingencies which might arise over the selections of athletic awards, or the eligibility of participants in intra-collegiate or inter-collegiate athletics, are disposed of by the board. The Executive Council attempts to keep athletic activities within their proper proportion, and yet promote them so that the students and the institution receive full benefit.

The past year has been an excellent one from the standpoint of athletic progress. The intra-collegiate basketball activities opened with more men out for basketball than ever before. The Freshman Class put six full teams on the floor, with the Sophomores responding with two and the Junior-Senior combination furnishing two more teams. It is by means of this team competition that every man in the college has the opportunity to physically condition himself. It is estimated that over fifty per cent of the college enrollment was engaged in basketball during the pre-season competition.

Parents' Day offered the first bit of public competition for the year. The annual Freshman-Sophomore contest excelled those of previous years. A big upset was brought about when the newcomers defeated the sophomore team, the newly crowned champions of the college. After that, however, the Class of 1928 had its own way. The yearlings won the cane-spree bouts in record time; the lightweight and the heavyweight bouts were over in four minutes, whereas the middleweight tussle lasted only three minutes. The second year men then proceeded to make it a sophomore day by successfully defending their title as the champion tug-of-war team of the college.

Varsity basketball commenced after the Thanksgiving recess, and extended through the winter months. The team had its ups and downs, but it always went on the floor with the determination to put its absolute best into the game. It always went into competition with the idea that "to win like a sport is fine, but to lose like a man is glorious." "Good sportsmanship and fair play" was the motto during the entire season.
Before the close of the basketball season, a new sport began to appear on the athletic horizon. A group of individuals, fostering the idea of a varsity track team, soon gained the recognition of the Executive Council. A schedule was completed, officials elected, and a new varsity team was on its way toward fame and glory. Considering its infancy, the team made excellent showings against Savage, Wagner, and Cooper Union. The men went in with the spirit to show the college that two varsity teams could successfully function.

The books closed on athletic history for the year 1925—26 with the Sophomore Class defending its baseball title against the Freshman-Faculty teams.

Precedent established, tradition upheld, and the creation of a new varsity team is a record of which the Athletic Association of the year of 1925—26 might well be proud.
OUR ALUMNI

E. Adams, Advertising Department, Weston Electrical Instrument Corporation.
C. Bauer, Public Service Electric Co.
I. Bergman, Chemical Engineer, Fox Film Corporation, N. Y. C.
C. M. Beyer, Production Engineer, Gould & Eberhardt Co.
G. H. Bjorklund, Engineer, Gould & Eberhardt Co.
G. Boorujy, Electrical Contractor, in business for himself.
F. W. Borman, Research Work, Gulf Refining Co., Texas.
E. L. Burnett, with Consulting Engineers, New York City.
D. S. Collard, Chief Chemist, Clark Thread Co., Bloomfield, N. J.
W. Crutchlow, Engineer, Edison Company, New York City.
F. M. Damitz, Chemist, Irvington Varnish & Insulation Co.
A. G. Davenport, Production Engineer, Gould & Eberhardt Co.
C. Davis, Chemist, Irvington Varnish & Insulation Co.
C. A. Fausel, Machine Designer, H. Russel Brands Laboratories, N. Y. C.
R. Fogel, Construction Work, Public Service Production Co.
F. C. Fraser, Chemical Engineer, Public Service Railway Co.
H. C. Hesse, Machine Designer, Singer Manufacturing Co.
M. Holmes, Assistant Chemist, Waldrich Bleachery, Delawanna, N. J.
F. L. Jacobus, Engineer, Westinghouse Lamp Co., Bloomfield, N. J.
F. A. Jillard, New York Central Railroad.
M. Kosches, Instructor in Mathematics, Central High School.
C. Mannheim, Assistant Chemist, Seaboard By-Product Coke Co.
K. S. Marshall, Garage Business, Mountain View, N. J.
R. J. Morgenroth, Production Engineer, Gould & Eberhardt Co.
L. Mosch, Chemical Engineer, Nairn-Congoleum Co.
J. Nile, Electrical Engineer, Public Service Railway Co.
L. Patterson, Chemical Engineer, Devoe and Reynolds.
W. Perrine, Chemist, Van Dyk Chemical Co.
H. B. Pollard, deceased.
S. Reigenstreich, Foreman Test Department, General Electric Co.
C. A. Schultz, Mechanical Engineer, Seaboard By-Product Coke Co., Jersey City.
L. D. Smith, Engineering Department, Weston Electrical Instrument Corporation.
J. Spielvogel, Advertising Business.
A. Vanderlip, in business for himself.
W. D. Vander Schaaf, Engineer, Public Service Production Co.
E. Waller, Engineer, Edison Company, New York City.
R. Widdop, Mechanical Engineer, Edison Portland Cement Co.
J. P. Wludyka, Production Engineer, Nairn Congoleum Company.

ACKNOWLEDGMENTS

While it is impossible to thank individually all those who have helped us in the publication of this book, we feel that it is only fitting that those to whom we are especially indebted should receive special attention here.

To Mr. Allan R. Cullimore, Mr. William H. Ripley, Mr. H. Graham DuBois, Mr. M. A. Waters, Mr. Frank N. Entwisle, Mr. L. H. Abbey, and Mr. R. H. Abbey we extend our most sincere appreciation for the many ways in which they were of assistance to us.

And in conclusion, may we thank our own classmate, Mr. John F. Ditsch, whose invaluable aid had much to do with the success of the 1926 Kem-Lec-Mek.
AUTOGRAPHS
The publication of this book was made possible by the hearty co-operation of—
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“Mr.—this is no glee club.”

(Continued on page 77)

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"I never tried this before."

"The projection of this line on the H-plane—."

"When I was in Schenectady."

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Prof. Brooks formerly taught at Yale and Brown, and was a Captain in the Aviation Service? Not to mention, of course, that he is a Deacon.

---

Prof. Bradley spent some time in an insane asylum but wants it distinctly understood that it was not as a patient, but as a research chemist—if there is any difference?

---

Dr. Crane was once a synthetic perfume chemist? And that he also synthesized a field-stone house? (The first floor has five rooms, and the second—hold on! that is another of the Doc’s stories.)

(Continued on page 81)

---

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Eighty
Dean Cullimore plays golf and tennis, and is a former hurdler? Also a Major in the army?

Prof. Cummings is President of the University Club of Belleville? And that he is an all-around outside man?

Prof. DuBois was a stretcher-bearer in France during the recent war? And that he was a baseball star?

Prof. Entwisle once designed a number of steel Lock Gates for the Barge Canal at Troy which are still standing? Gott Sei dank!

Prof. Metzenheim is an armature farmer—no, I mean an amateur one? (Continued on page 83)
PARADISE
A shaded room,
An open fire,
A cozy nook,
And your heart's desire.

PARADISE LOST
The selfsame room,
The lights just few,
The same little nook,
With Ma there too.

INFERNO
The room, the nook,
The girl, the fire,
Everything bliss—
And enter, Sire!

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OF
JOSEPH POSNER
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General Electric Company
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Prof. Nims is engaged in engineering practice aside from instruction in College? And admits that he is a transplanted Yankee?

Prof. Peet was formerly a track coach at Harrisburg Tech? He is also very adept at telling some “large” fish stories?

Prof. Roberts is the present high-jump and pole-vault record holder of Stevens? And was indoor Metropolitan high-jump champion?

Prof. Lavenburg was in the Government employ following the war, engaged in rehabilitation?

(Continued on Page 84)
THE PORTRAITS AND GROUP PHOTOS IN THIS BOOK ARE FROM OUR STUDIO. WE HAVE TRIED TO MAKE THEM OF HIGH QUALITY, AND HOPE THEY MEET WITH YOUR APPROVAL.

JOHN F. SHERMAN
PHOTOGRAPHER

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Prof. Koshkarian was a Mathematician in the service of the Prudential Insurance Co.—and ALSO served two weeks in a Turkish Jail?

—

Prof. Krausnick is a Captain in the 373rd. Engineers' Reserve? And that he is also a Nova Scotian farmer from Missouri?

—

Prof. Schweizer was a basketball star at Brooklyn Poly?

—

Prof. Stewart's past includes a poison case?—He was once in charge of an arsenic plant.
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*Eighty-five*
This Issue
of
The
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was designed, engraved
and printed by
The Abbey
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Specialists in
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for Schools and
Colleges

Eighty-seven