THE 1929
KEM-LEC-MEK
PUBLISHED BY
THE SENIOR CLASS OF THE COLLEGE OF ENGINEERING
NEWARK, N.J.
FOREWORD

IN publishing this, the seventh volume of the Kem-Lec-Mek, we, the Class of 1929, have endeavored to make it universal in scope, including all the activities of the College. We have borne constantly in mind, throughout its preparation, that it is not only the Senior Class publication, but truly a college annual.

Perfection in year books is a much desired goal in many colleges; many strive for it, none attain it, for it is impossible of realization. Nevertheless, we have set this ideal before us as a mark for which to aim; we leave it to you, the reader, as you peruse these pages, to judge how successful we have been.
WILLIAM L. MORGAN
President of the Board of Trustees
DEDICATION

TO

WILLIAM L. MORGAN

IN RECOGNITION OF HIS LONG AND VALUED SERVICES TO THIS INSTITUTION AND TO ITS STUDENTS, WE, THE CLASS OF 1929, RESPECTFULLY DEDICATE THIS VOLUME.
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ALMA MATER

Hail! dear old N. C. E., bow to her call;
For men who are leaders do answer her roll.
With voices resounding we'll sing of her glory,
The pride that we feel at the sound of her name.

Alma Mater, we praise thee, the ground whereon you stand,
Since eighteen hundred eighty-four, o'erlooking the land.
We'll always stand by you, to you we pledge our might;
Here do we give our all for the crimson and white.

—James C. Peet.
THE 1929 STAFF

VERNON O. DRAKE .......................... Editor-in-Chief
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THE HISTORY OF THE NEWARK COLLEGE OF ENGINEERING

The numerals of our class—'29—are particularly significant in that they symbolize the tenth anniversary of the founding of the Newark College of Engineering. It is, therefore, altogether fitting and proper that we of '29 should devote a short space in our book to a brief chronicle of the progress of our Alma Mater, a history to which any college man might point with pride.

As is generally known, the College is an outgrowth of the Newark Technical School, founded in 1881, and for this reason it is often confused with the latter institution. In the last decade the College has acquired an excellent reputation of its own and has attained a unique position among the prominent engineering colleges of the country.

The first graduating class, which matriculated ten years ago, consisted of ten men. Since that time the record of progress of the College has been an excellent one indeed. It is still more impressive when we remember that the keynote of this progress has been the placing of quality before quantity. Doubtless such a conservative policy is not attended by spectacular or ostentatious displays of publicity which characterize so many of our sister institutions. In spite of the conservative policy, the College has grown rapidly until in 1929 it has over three hundred matriculated students, placing it well within the highest quarter of American engineering colleges.

Coincident with the growth of enrollment has also been the growth of the faculty and facilities. In 1919 the College had six men on the faculty with two buildings in which to do their work. The rapid growth of the student body, together with the increase in laboratory equipment necessitated the addition of a new building, Campbell Hall, in 1927, and the contemplation of a fourth building in 1929. The faculty has grown from the original six to over twenty men giving full time to the College and administering over forty different courses of instruction.

Originally the College offered courses in three branches of engineering, Chemical, Mechanical, and Electrical. In 1928 came the inauguration of a Civil Engineering Department, and in 1929 came the announcement of courses in Aeronautical and Radio Engineering to be started in 1930. An innovation in engineering education was made in 1928, when the College inaugurated the Twilight Courses. These consisted of the regular college studies of the junior and senior years offered between the hours of five and seven P. M. Men in the industry who had completed the first two years of work in the evening or in other institutions were thus enabled to avail themselves of the opportunity of working for a College degree in three additional years.
Student activities at N. C. E. for the past ten years were characterized by a growth compatible with that of the College itself. Among these, the most marked achievements were made by the local student branches of the engineering societies. The first national organization to be represented was the A. S. M. E., a local branch being formed in 1925. In 1926 our local Electrical Society became affiliated with the A. I. E. E. In the same year the American Chemical Society was represented by its only branch in an American college, and in 1928 came the N. C. E. Civil Club. In their relations with our sister institutions these societies have been extremely successful. For two consecutive years the chairmanship of the student branches in the Metropolitan Section of the A. S. M. E. was held by N. C. E. men. In 1928 the chairmanship of the Metropolitan Branches of the A. I. E. E. was held by an N. C. E. man. The presentation of competitive papers by students of all the colleges in the Metropolitan District always showed N. C. E. near the top, and in 1928 the highest national honor in mechanical engineering, the Charles T. Main Award, was won by an N. C. E. man.

There are many other activities of interest and showing enviable records. To all these, the Student Council acts as a guiding hand, and serves as a mediator between the faculty and the students. The first Council was organized in 1926. Since that time it has progressed slowly but surely until it becomes the privilege of the Class of '29 to announce in its book the complete ratification of the statutes of the Council, their acceptance by the faculty, and the placing of that body on a firm and solid basis. The Council has grown until in 1929 it has represented in its personnel over fourteen separate activities, the classes, the A. A., the technical societies, The Kem-Lec-Mek, The Technician, (founded in 1927), the Greek letter fraternities, and others. It has also created in 1929 the Press Board and the Honor Society as well as stimulated an interest in aeronautics.

In this latter connection the Aeronautical Committee of the Council has placed an air marker on the roof of the Laboratory Building for the benefit of pilots seeking Newark Airport, and thus the College became a landmark both literally and figuratively. Our other extra-curriculum activities founded in the last few years are the Radio Club, the Chess Club, the Glee Club, the Foto Club, the College Orchestra, and various intra-collegiate sports.

Obviously such rapid progress, based, as it is, on conservative principles, must be attributed to the unique spirit prevalent at N. C. E., and characterized by the Newark type of technical training. The College is so situated as to be in an ideal location for co-operative education. The success of the system is evinced by the ten years of amazing progress. The ultimate criterion of N. C. E. training is exemplified in our spirit, “professional achievement of the highest type.”
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Vice-President

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ROBERT CAMPBELL

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The Board of Trustees

Edward F. Weston

Hon. Jerome T. Congleton
Mayor of Newark

Felix Fuld
Deceased

Herbert P. Gleason
Deceased

John B. Clark
THE BOARD OF TRUSTEES

EVENTS of the past year have considerably disrupted the organization of the Board of Trustees of this institution. The loss of four of its most active and interested members in such a brief period was a sad blow to the College. The present Board, though it still has two vacancies, is, however, functioning with its customary interest and despatch, and we feel certain that the able men who constitute its membership will take up the work and administer the affairs of the College with the same high ideals before them.

The Board is at present presided over by Mr. William L. Morgan. Mr. Morgan is a distinguished Newark lawyer, a member of the firm of Pitney, Hardin & Skinner, Counselors at Law. He has devoted much of his time and energy to the advancement of this institution and has been a potent influence in its development.

Mr. Frederick L. Eberhardt is Vice-President. He is President of the Gould & Eberhardt Company and has been for a number of years a valuable and energetic worker in the cause of technical education.

Mr. William C. Stobaeus has been acting as Treasurer of the Board since the death of Mr. Gleason. Like Mr. Eberhardt, he has long been an active member of the Board, but until the present time has held no office. When he is not engaged in helping the work of the College he is a consulting chemical engineer.

Other members, no less active and interested than the preceding, are Mr. John B. Clark, President of the Clark Thread Company, and Mr. Edward F. Weston, President of the Weston Electrical Instrument Corporation.

The most recently appointed member of the Board is Mr. Robert Campbell, son of Mr. Peter Campbell whose name has become endeared to all connected with N. C. E. Mr. Campbell is Vice-President of the Atlantic and Pacific Investment Corporation of New York.

It has been the great misfortune of this College to lose by death no less than four of its trustees in the past twelve months. Mr. Peter Campbell, long the head of the Board, and so universally loved and respected as to be almost a "father" to the College, passed away in June, 1928, some hours after what proved to be his last speech to the students, at the graduation of the 1928 class. His death was an irreparable loss to this institution.

Within the space of two weeks last winter, two of the leading citizens of this city, members of the Board, were snatched from us, Mr. Herbert P. Gleason, Treasurer of the College, and Mr. Felix Fuld, respected Newark merchant and public benefactor.
In Memoriam

Peter Campbell

"And, when the stream
Which overflowed the soul was passed away,
A consciousness remained that it had left,
Deposited upon the silent shore
Of memory, images and precious thoughts
That shall not die, and cannot be destroyed."
—Wordsworth.

Herbert P. Gleason

"We see but dimly through the mists and vapors;
Amid these earthly damps
What seem to us but sad, funeral tapers
May be heaven's distant lamps.

There is no Death! What seems so is transition;
This life of mortal breath
Is but a suburb of the life elysian,
Whose portal we call Death."
—Longfellow.
In Memoriam

Felix Fuld

"This man lived a life simple, modest, unassuming. This man walked the streets shoulder to shoulder with us, stood by as one of us, without seeking distinction, without claiming honor, satisfied to have for his reward the mere satisfaction of duty well performed, a life well lived, happiness scattered to others with unselfish hands. He sought only wider fields of usefulness. His ambition was not for self, but to utilize the life that was his in order that a broader and wider life might come to those with whom he came in daily contact."

—Edward D. Duffield.

Thomas L. Raymond

"Statesman, yet friend to truth! Of soul sincere,
In action faithful, and in honor clear;
Who broke no promise, serv'd no private end,
Who gain'd no title, and who lost no friend."

—Pope.
FACULTY
ALLEN R. CULLIMORE, S.B.
Dean of the Newark College of Engineering

ΒΘΠ; ΦΚΦ; Bachelor of Science in Civil Engineering, Massachusetts Institute of Technology, 1907; Dean, College of Industrial Science, Toledo University, 1913-1917; Dean, College of Engineering, University of Delaware, 1917-1920; Director of Newark Technical School since 1920; Member American Chemical Society; Society for the Promotion of Engineering Education; Society for the Advancement of Science.
THE DEAN’S MESSAGE

In any message that I might give to the Seniors of 1929 pride would play a very large part. To those of us who bear the responsibility of directing the studies of you men, your success in your work with us is a source of real gratification. All that we can do has been done, but, while our work for you has ended, your work for us is just beginning.

The reputation and the standing of our College is based upon a single factor only. Your success in your profession and in the larger world of human endeavor will, in the last analysis, either commend or condemn us. It matters little what our standards are if you fail to live up to them, and no matter how arduous our requirements are, they count for little unless they are reflected in your lives.

In placing our approval upon you we know that the requirements of academic scholarship have been properly met by you. We know far more than this. Your co-operative work indicates that you have those qualities and those characteristics which can secure success.

While we all feel pride in your standing in college, we feel a greater pride and a real sense of security when we realize that you have already made some little progress in the higher success and the more important art of living and working with your professional associates in a real world of affairs.

We have watched you attack and solve the problems of the class room and the laboratory; we have seen you strive to apply your knowledge to the difficult and complex conditions which industry imposes upon its engineers. As you go on to higher success we shall think of you first, perhaps, as men learning to bear your professional responsibilities, and then as engineers who have been well trained in the principles of your profession.

As you look back and try to evaluate what we have given you, I feel sure that at last you will know that most important of all was our leadership and our guidance in those first days when you began to take on the responsibilities which come upon engineers.

Our loyalty and our backing you will always have, and you can always be sure of our interest and our pride in your achievements. All that we ask in return is to have you appreciate in some measure that, whatever you do, be it good or bad, must come back upon us. This responsibility you cannot escape.

Allan P. Cullimore
JAMES A. BRADLEY, A.B., A.M.

Assistant Dean of the Newark College of Engineering

ΑΧΣ; Bachelor of Arts, 1914 and Master of Arts, 1920, Harvard University; Member American Chemical Society; Association of Harvard Chemists; Boylston Chemical Club.
J. ANSEL BROOKS, Ph.B., M.E.

Professor of Mechanical Engineering

Bachelor of Philosophy, Yale, 1898; Mechanical Engineer, Yale, 1901; Member American Society of Mechanical Engineers; Society for the Promotion of Engineering Education; Society for the Advancement of Science; Yale Engineering Association; Taylor Society; American Association of University Professors.

HAROLD N. CUMMINGS, A.B., S.B.

Professor of Civil Engineering

ΦΒΚ; Bachelor of Arts, Bates, 1906; Bachelor of Science in Civil Engineering, Massachusetts Institute of Technology.
H. GRAHAM DUBOIS
A.B., A.M., Ph.D.
Professor of English
Bachelor of Arts, Johns Hopkins University, 1912; Master of Arts, Columbia University, 1923; Doctor of Philosophy, New York University, 1926.

BEDROSS KOSHKARIAN
A.B., A.M.
Professor of Applied Mathematics
Bachelor of Arts, Euphrates College, 1903; Master of Arts, Yale University, 1912.
JAMES C. PEET, E.E.
Professor of Electrical Engineering

TBII; Electrical Engineer, Syracuse University, 1903; Member American Institute of Electrical Engineers; Society for the Promotion of Engineering Education; Essex Electrical League.

VERNON T. STEWART, S.B., B.S.
Professor of Chemical Engineering

Bachelor of Science in Chemistry, Syracuse University, 1905; Bachelor of Science in Chemical Engineering, Massachusetts Institute of Technology; Society for the Promotion of Engineering Education; Deutsche Chemische Gesellschaft.
DOUGLAS BAKER, M.E.

Instructor in Mechanical Drawing

Mechanical Engineer, Stevens Institute of Technology, 1915; Graduate, Engineers' School of the United States Naval Academy, 1919; Member American Society of Mechanical Engineers; Society for the Promotion of Engineering Education; Rice Chess Club.

JOHN R. BOYLE, B.C.S.

Instructor in Accounting

Bachelor of Commercial Science, New York University, 1920; Eastern Teachers Commercial Association.

SOLOMON FISHMAN, B.S.

Instructor in Electricity

Bachelor of Science in Electrical Engineering, Newark College of Engineering, 1927; Associate American Institute of Electrical Engineers.

FRANK N. ENTWISLE, C.E.

Professor of Physics

ΦΒΚ; Civil Engineer, Princeton University, 1912; Member Society for the Promotion of Engineering Education.
PAUL M. GIESY, B.A., M.A., B.S., Ph.D.
Instructor in Chemistry
ΦΒΚ; ΣΞ; Bachelor of Arts, 1910, Master of Arts, 1912, and Bachelor of Science in Chemical Engineering, 1912, Ohio University; Doctor of Philosophy, Columbia University, 1920; Member American Chemical Society; American Pharmaceutical Association; Fellow American Institute of Chemists; Society of Chemical Industry.

HERMAN C. HESSE, B.S., M.E.
Instructor in Mathematics
Bachelor of Science in Mechanical Engineering, 1925, Newark College of Engineering, Mechanical Engineer, 1927; Member American Society Mechanical Engineers.

F. W. LAVENBURG
Supervisor of Industrial Relations
New York State Normal School, 1916; Supervisor Newark Technical School.

FRANK E. McKONE, B.S., M.S.
Instructor in Electricity
ΦΞ; Bachelor of Science in Electrical Engineering, University of New Hampshire, 1909; Master of Science, Massachusetts Institute of Technology, 1917; Member American Society of Mechanical Engineers; Society of Automotive Engineers; Aero Club of France.
MATTHEW H. MERRY, B.S.
Associate Professor of Civil Engineering

Bachelor of Science in Civil Engineering, University of Maine, 1920; Society for the Promotion of Engineering Education.

H. H. METZENHEIM, B.S., E.E.
Instructor in Mathematics and Electricity

Bachelor of Science, 1917, and Electrical Engineer, 1920, Cooper Union; Member American Institute of Electrical Engineers; Society for the Promotion of Engineering Education; New Jersey Society of Professional Engineers and Land Surveyors.

ALBERT A. NIMS, B.S., E.E.
Associate Professor of Electrical Engineering

Bachelor of Science, 1908, and Electrical Engineer, 1911, Worcester Polytechnic Institute; Associate American Institute of Electrical Engineers.

ROBERT B. RICE, B.S.
Associate Professor of Mechanical Engineering

Bachelor of Science in Mechanical Engineering, Tufts College, 1926; Member of the American Society of Mechanical Engineers.
PAUL E. SCHWEIZER, M.E.
Instructor in Mechanical Engineering
Mechanical Engineer, Polytechnic Institute of Brooklyn, 1923; Member American Society of Automotive Engineers; American Society of Mechanical Engineers; Society for the Promotion of Engineering Education.

RALPH B. SMITH, B.S.
Instructor in Chemical Engineering
ΦΔΘ; Bachelor of Science in Chemical Engineering, Whitman College, 1917; Member American Chemical Society.

ROBERT WIDDOP, B.S.
Instructor in Mechanical Engineering
Bachelor of Science in Mechanical Engineering, Newark College of Engineering, 1924; Member American Society Mechanical Engineers.
OFFICERS OF ADMINISTRATION

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JAMES A. BRADLEY
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Clerk

RUTH N. LITTIG
Clerk

ROBERT WIDDOP
Superintendent of Plant and Equipment
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CO-OPERATIVE CONCERNS

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Westinghouse Elec. & Mfg. Co........................Newark, N. J.
Weston Elec. Instrument Corp.....................Newark, N. J.

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Gould & Eberhardt................................Irvington, N. J.
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National Lock Washer Co..........................Newark, N. J.
Paterson Bridge Co................................Paterson, N. J.
Public Service Production Co.....................Newark, N. J.
Singer Manufacturing Co...........................Elizabethport, N. J.
A T THE beginning of the twentieth century there seemed to be, to those interested, a great gap between engineering theory as taught in the colleges and engineering practice as actually applied in the field. School shops failed to bridge this gap, and were otherwise unsatisfactory. A certain amount of practice, it was felt, would enable the student to better understand the theory.

The problem was solved by Professor, now Dean, Herman Schneider. In 1902 he presented a paper outlining a scheme for co-operative education, but it was several years before the co-operative plan was tested in practice.

In the fall of 1905 the Board of Directors of the University of Cincinnati authorized a co-operative course to start with the school year 1906-1907. Difficulty was experienced in obtaining firms willing to co-operate, and in finding students willing to take the course. These obstacles were overcome, as were a number of others that presented themselves during the first year of the course. At the beginning, the co-operative course covered six years of work, nine months of each year being spent in alternate weekly periods in the school and shop. The other three months, except for a two week vacation, were spent in full time shop work. Both the school work and the shop work were carefully watched and graded. A plan of consistent progress in shop work was laid out for each student. The students were divided into two equal groups, one of which was at school while the other was in the shop. This provided the necessary continuity of service to the industries.

The course appeared, after a year's trial, to fulfill the purpose for which it was designed. A large number of students now wished to enroll, and many firms offered their co-operation. It was deemed wise, however, to limit the number of students until all the details had been worked out and studied carefully. At the end of four years the plan appeared entirely successful. The number of students enrolled had increased from 28 to 138, and a civil engineering course had been added to the original electrical, mechanical, and chemical engineering courses.

Then, in 1910, the University of Pittsburgh and Northeastern University both offered co-operative courses based on the principles stated by Professor Schneider in 1902. The University of Cincinnati had changed its plan to cover five years of eleven months each, alternate periods of two weeks being spent in the school and shop. Northeastern and Pittsburgh adopted a different scheme. The first year was devoted to academic subjects. Then came the co-operative work. The periods of alternation were longer than at Cincinnati, and the courses were four years in length.
In 1912 the Georgia School of Technology inaugurated a co-operative course in general engineering on a plan similar to that used in Cincinnati. Two years later the Municipal University of Akron adopted a similar plan, and the following year, 1915, the University of Detroit initiated its engineering courses using the same scheme.

Then came the war period. From 1916 to 1918 no increase in the number of colleges using co-operative courses took place. In 1919 the Newark College of Engineering opened with a four year co-operative plan, the first two years of the course being devoted to academic work, the last two to the alternating system. Marquette University started on a similar five year course the same year. At this time the University of Cincinnati introduced the co-operative plan into its commercial course.

The following year, several other colleges introduced modifications of the co-operative plan. Evansville College, aside from starting engineering courses under this plan, adopted it for its arts course.

Progress since 1919 has been rapid; co-operative courses having been adopted by fifteen institutions since that year. The plan has been extended to cover many fields. Besides those already mentioned, architectural, industrial and general engineering courses are offered at some schools. Courses in administrative, aeronautical, ceramic and geological engineering are given. Other colleges offer courses in the textile, mining, railway and similar specialized fields.

Northeastern University, which adopted, in 1910 a plan of co-operative education similar in principle but differing widely in practice from that at Cincinnati, has enjoyed similar success. In 1928, the enrollment of co-operative engineering students was 1685. These students were placed with 381 firms.

The Georgia Institute of Technology co-operates, at the present time, with 100 firms and had 546 co-operative engineering students last September. Southern Methodist University had 231 engineering co-operatives in 1927. Both New York University and the Massachusetts Institute of Technology are successfully using plans similar to that which failed at Lafayette. Figures for 1925 were 111 and 274 respectively.

In has been estimated that in 1925 about 10% of all engineering students were taking co-operative courses. This percentage is probably much higher at the present time.

The money earned by students in their co-operative work is of secondary consideration, but it has enabled a great many men to attend college who otherwise would have been unable to do so. Another development of co-operative education is the reduction in teaching costs, since almost twice as many students may be accommodated with the same faculty and buildings.
SENIORS
CLASS OF 1929

EDWARD J. LOTT  
President

KENNETH J. VAN BRUNT  
Vice-President

MARSHALL C. BASSFORD  
Secretary

HOWARD ORRELL  
Treasurer

PROF. PAUL E. SCHWEIZER  
Faculty Advisor
"LIFE is short, time is fleeting" are the now famous words of one of the members of our faculty. These words are most fitting now that we bid farewell to our dear Alma Mater who has reared us to manhood and now turns us out to the world well equipped with everything needed for a successful professional career.

It seems as if it were just yesterday that we, a pretty raw bunch of high school kids, entered the walls of N. C. E. We were ninety strong, all full of high hopes and anxious to begin the fight for fame. But, alas, so many succumbed—the ravages of time and the rate of mortality were fearful.

The first two weeks passed quickly between studies and minor clashes with the Sophs. We placed high hopes on our squad selected to play them in the traditional football game and, of course, we were victorious. The Sophs were defeated and we celebrated the first step toward liberty by discarding the hateful white socks immediately after the game.

With the aid of the friendly Juniors we soon held a class meeting in order to organize our scattered forces and offer definite resistance to our mighty enemies. Class officers were elected and Professor Schweizer was chosen our faculty advisor.

Parents’ Day followed quickly, and in the afternoon session our basketball team won the game from the Sophomores by a comfortable margin. This was quite a consolation since we did not fare so well in the cane-sprees and the tug-o-war.

Athletically we were not in the background. Six teams were placed in the field in the inter-class basketball competition. The Freshman team organized from these groups engaged in several outside games and several of its members won places on the varsity team.

Christmas recess came and went. The mid-year examinations caught us like a violent storm. Our castles crumbled and when later we crawled from beneath the wreckage we could not account for over one quarter of our comrades. Blessed be the souls of the departed!

Our first year drew to a close. The final examinations took another flock of victims leaving us only two-thirds of our original number, and those who withstood the deluge breathed with relief and went their several ways to get acquainted with the industrial life.

We started the sophomore year full of vigor. Two men from night school joined our ranks. The first day in school the incoming Freshmen were decorated and taken for a parade on Broad Street. Two weeks later the football game followed. Although we played an excellent game, fate
did not decree that we should be victors that day. The Junior Smoker followed that evening and several of our dramatically inclined members presented a humorous sketch with great success.

An accomplishment of the class was the design and successful sale of the college sticker, made in the shape of a pennant. This, by now, is familiar to everyone, being conspicuous on brief cases and on the windows of automotive contrivances of N. C. E. students.

Our Class had the honor of holding its first dance, the Soph Hop, in the newly completed Campbell Hall. On this occasion the class presented its banner to the college to be placed in the gymnasium.

The first event of importance in our Junior year was the Smoker held in the Krueger's Auditorium. No need to say that there was plenty of everything: cider, doughnuts, cigarettes for upper classmen, tobacco and corncob pipes for Freshmen, vile smoke from the corncobs, music, songs, etc.

At the beginning of this year we adjusted ourselves to the co-operative system. The foundry, machine shop, laboratory, test floor, drafting room, etc., were the usual places where the N. C. E. students could be found. Of course, we profited greatly from this work. We not only gained experience, but also checked the rapid swelling of our heads, nothing being more effective in this respect than a cranky foreman telling the vain gentleman "where he gets off" for turning out such "rotten" work.

In scholastic work we found the Co-ordination class by far the most enjoyable of the lot. Just recollect Friedman's report and the "extra charge for gravy."

In the Strength class we were not without luminaries. Once Mr. Herr tried quite seriously to prove that two parallel lines are perpendicular to each other.

One of the really important things was the handling of the Technician, which is published by the Juniors. The staff selected from our class did exceptionally well and the material was always up to the desired standard.

In athletics the class did not do as nearly so well as in the preceding years, but the division of time between school and industry has to be taken into account. The same thing happens with every class at the beginning of the co-operative work. We made the sacrifice willingly because we knew that the element of work in real life was more important than the element of play, and the more experience we acquired during our college years, the more advantage we had over graduates from non-co-operating colleges.

During the same year many of our members became very active in their respective student branches, A. I. E. E., A. S. M. E., and A. C. S. Several papers were presented by our classmates at the various branch meetings.
Our chief social activity that year was the Junior Promenade. This affair marked our formal social debut and was held at the Glen Ridge Women's Club, February 24, 1928. It was, by far, the most outstanding and successful event of the year.

The finals came around, and our ranks were still further depleted. We disbanded for the summer thinking of "rest" while at work. The steady summer work offered us opportunity to acquire greater skill in the various manufacturing processes.

Then came the fall. We returned as Seniors, to take the leadership in all activities. "At last," we thought, "after three years of strenuous effort, we are at an arm's length from the goal." Who wouldn't be tempted to rest a while on the laurels of former achievements? The class as a whole was inflicted with an acute form of superiority complex.

"Though you laugh or you smirk—it's work, work, work,
When you come to N. C. E. for your degree."

And we soon came to our senses. The first two weeks were sufficient to bring this about. The heights of Olympus seem beautiful only from a distance. We did not find them so attractive when we reached them. We were absolutely bewildered with the array of work our scheming profs provided for us. They must have been working very hard during the summer devising such scientific methods of torture. So, giving up the last hopes for an occasional minute of pleasure, and with deep sighs of despair, we rolled up our sleeves, picked up our shovels, and started to dig ourselves out of the mess. Reports, then some reports, then more reports, and then some more reports! All sorts of books to be outlined for future utilization in the furnace—all this was in the pile beneath which we were gasping for breath. We would have choked had it not been for our knowledge of the many principles of Scientific Management, which helped us out by the latest efficiency methods.

Then came the crowning glory—our Management helped us again—in the boiler test we succeeded in getting more B. T. U.'s out of the system than we put in. The news spread rapidly all around and Mr. Bochner is being flooded with letters pleading for some information regarding the realization of super-perfect combustion and flue gas analysis.

It would be unjust to say that the year was absolutely "joyless." The engineering analysis of the sandwich requirements for Parent's Day in the Contracts class, and the innumerable verbal battles and clashes between the two "friendly" enemies, Bochner and Joerren, provided plenty of amusement.

Between our scholastic and co-operative work we scarcely noticed that
the mid-years came around. Oh, those “long and beautiful” examination sheets! But they could be worse, we consoled ourselves.

When the letters with the marks came in . . . Oh, let’s better forget that. We decided to make our last effort to reach the goal safely.

“We worked with ardent fervor and we burned the midnight oil.
In the daytime and the night-time, sure we toiled a bloody toil,
For our aim we thought was worthy, and we knew beyond a doubt,
That sometime next September we shall finally get out!”

Besides the scholastic and co-operative work we had many other things to attend to. At Parents’ Day, we were requested to take the “Leading” part in the affair. The members of the Foto Club were called to action. The Student Council, headed by our members, revised the constitution and passed it to individual classes and organizations for adoption.

The professional Engineering Conventions and the Student Conventions of the Metropolitan District were fully attended by corresponding divisions of the Senior Class. At the latter, our college was represented by a speaker from among our members.

But the real task of the year was publication of the Kem-Lec-Mek. For the staff we chose the former staff of the Technician. The amount of work involved was enormous and it would have been unjust to leave the matter entirely up to the small group selected. At the call of the staff various members of the class came willingly to their aid.

As our last achievement came the Senior Ball, the greatest social event in our four years of college life. This farewell dance was held at the Masonic Temple, Elizabeth, N. J., May 10, 1929, and left fond memories to those who attended. Details are described elsewhere in this volume.

To Professor Schweizer, our faculty advisor, whom we had the good fortune to choose in our first year, we wish to express our sincere appreciation for all his unceasing vigilance, timely warnings, tactful recommendations, and whole-hearted devotion to the welfare of the class as a whole and of each member individually.

In parting, we wish to express to the faculty, as a whole, our gratefulness for the real man-to-man attitude during the entire four years. To Dean Cullimore are we especially indebted for the advantages we gained through the co-operative system, which owes its success entirely to his unusual abilities and rare qualities.

We believe that as a class we have done our work well and now, at graduation, in bidding farewell to the dear walls of our Alma Mater, we pray for an equal success in our chosen professions.
PAUL E. SCHWEIZER

Faculty Advisor
RANIERI P. BARRASSO, JR.
186 Bruce Street, Newark, N. J.

Course: Electrical Engineering.

Co-operative Concern: Westinghouse Electric & Manufacturing Co.

Activities:
A. I. E. 2, 3, 4 A. A. 1, 2, 3
Cap and Gown Committee 4

Friend Barrasso reminds us of an animated stick of dynamite—there is so much pep and energy in such a small space. Sometimes it seems that he has stolen the vim that some of his classmates need. There is no keeping him down. Like his illustrious compatriot, for whom he has been nicknamed, he is the moving spirit in many affairs, especially arguments with Bochner, which are both moving and spirited.

However, Ranieri knows whereof he speaks, which is no mean accomplishment. He is one of our best students, and had all the instructors in the Electrical Course worrying nights to find new worlds for him to conquer. He has a thirst for knowledge that will lead him far in search of the limpid waters of fame and fortune.
MARSHALL C. BASSFORD
249 Summer Avenue, Newark, N. J.

Course: Chemical Engineering.

Co-operative Concern: Procter & Gamble Co.

Activities:

A. C. S. 1, 2, 3  Class Secretary 3, 4
Treasurer 4  Junior Smoker Committee 3
A. A. 1, 2, 3, 4  Circulation Manager, Kem-Lec-Mek 4

During the past two years, members of the class of '29 were accustomed to receive postcards, which, upon close inspection appeared to have a series of strange hieroglyphics inscribed on them. These missives continued to be a source of mystery for quite a time until, at last, by means of inductive and deductive reasoning, logic, and similar silly pastimes, it appeared that they were nothing more or less than class meeting notices, sent out by our worthy secretary, Marshall.

Marshall, however, is in no way culpable for any apparent secretarial misde-meanors. The guilt, if any, may be ascribed to too much riding in Public Service conveyances to and from Port Ivory.

Seriously, though, when it comes to studies, Marshall is about two laps ahead of most of us and when he isn’t burning up the road to knowledge he is probably burning up the road to Irvington on an errand of—but that’s his business.
ALEX BECKER
99 South Eleventh Street, Newark, N. J.

Course: Electrical Engineering.

Co-operative Concern: Diehl Manufacturing Co.

Activities:
A. I. E. .................. 2, 3, 4  Foto Club .................. 3, 4
Cap and Gown Committee ......... 4

From the manner in which our Alex set out in the conquest of professional education we feel that he must have been named for Alexander the Great. He is certainly completing his task very thoroughly. Being a firm believer in the old adage, "All work and no play makes Jack a dull boy," he found time, however, to be present at practically all social functions.

He is an electrical, and we may therefore call him a "live wire," which is no misnomer, for he really is an active worker for his class. His favorite hobbies are photography and writing long reports.

The only "weakness" we have been able to discover in him is that he acquires too many A's but we have not the slightest doubt that this "weakness" will be his strongest point in a successful engineering career.
WILLIAM B. BEVERIDGE
154 Arlington Avenue, Hawthorne, N. J.

Course: Electrical Engineering.

Co-operative Concern: Public Service Electric & Gas Co.

Activities:

A. I. E. E. .................. 3, 4  Interclass Basketball .... 1, 2, 3, 4
Class Secretary .................. 1  A. A. .................. 1, 2, 3, 4
Football .................. 1, 2  Representative .................. 3
Interclass Baseball ............. 1, 2, 3  Cap and Gown Committee ....... 4

Four years ago "Babe's" six feet plus of likeable personality entered old N. C. E. and he immediately tried to settle down to study. Strange as it may seem, he has, during this era, managed to pull down passing grades, and, even, many times, better, seemingly without the slightest effort. After school hours "Babe's" efforts are bent toward another goal; for this tall, handsome lad approaches the Prince of Wales as a limit when it comes to attracting a certain young lassie from his home town.

"Babe" has all those good qualities which tend to make up a good fellow. His pet hobby is bowling, and, at the slightest suggestion, he is willing to knock off a few pins after those interesting (?) student meetings.

"Babe's" personality assures him of success, and the whole class, without exception, wishes that success to come quickly.
ALLAN BOCHNER
573 South Seventeenth Street, Newark, N. J.

Course: Chemical Engineering.

Co-operative Concerns: E. I. Du Pont de Nemours & Co.
National Oil Products Co.

Activities:

A. C. S. .......... 1, 2, 3
President ..... 4
Track .......... 1, 2, 3, 4
Student Council ..... 4
Football .......... 1, 2

A. A. Representative .......... 3
Cane Sprees, Asst. Coach .......... 3
Interclass Basketball .......... 1, 2, 3, 4
Sophomore Hop Committee .......... 2
Interclass Baseball .......... 1, 2, 3, 4
Senior Ball Committee .......... 4

Hush! From where can that ghastly sound be issuing? Be not alarmed for it is merely Al attempting to explain to Professor Stewart how the phase rule should be used in chemistry. For some reason or other their ideas don't seem to coincide but the audience (the class) profit much, since before the discussion they didn't know there was such a rule, and at the end of the hour they at least know that the rule exists. Al is not only able to use his tongue to great advantage, but can bring his brawny muscles into play. He is a reputed shot-putter but, as is rumored, he can also throw the —— well, many other things.

In spite of Al's outside activities he manages to remain one of the brightest satellites of the class, and if A's are a measure of future success he will surely be a winner.
CHARLES H. CLARENDON, JR.
A K II
759 Lafayette Street, Elizabeth, N. J.

Course: Electrical Engineering.

Co-operative Concern: Weston Electrical Instrument Corp.

Activities:

A. I. E. E. .......................... 2, 3, 4  Chess Club .......................... 2, 3
Secretary .................................. 2  Business Manager ................. 3
Technician .......................... Assistant  Business Manager ................. 4
Kem-Lec-Mek .......................... Assistant

When you gaze into the cherubic countenance pictured on this page you will in- 
evitably recall Morse's famous message, "What hath God Wrought," and wonder whether it applies to telegraphy only. To behold such angelic features makes one doubt whether such a human being really exists or is only a myth.

Nevertheless, Charlie is a good "skate." You have to be, too, especially when playing bridge with him and he trumps your ace. Grr!

Charlie picked on electrical engineering for his life work, and, from all reports of his progress, he chose wisely. It is a cinch that he will make a name for himself later on if his school work is any criterion.

But all too soon we come to the parting of the ways. As you sail your ship on life's sea, Charlie, we wish you the best of luck, and bon voyage!
RICHARD D. CUSHWA  
70 Park Ave., Caldwell, N. J.

Course: Electrical Engineering.

Co-operative Concern: Public Service Electric & Gas Co.

Activities:

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Folks, meet the big power plant engineer from the Essex Power Plant. This is the man who sees to it that your electric lights are always supplied with the necessary “juice.” Knowing Dick as we do, though, we are in a continual state of fear and trembling during his co-operative periods. Every time the lights flicker we shudder with dismay, thinking that perhaps our august Assistant Advertising Manager has become an involuntary short circuit. We are happy to state, though not without many misgivings, that this unfortunate accident has not happened—yet.

Dick is a valuable personality. He provides the variety on this year-book staff which is the spice of our life. His unfailing good humor and his steady work make him more appreciated as time goes on. In his scholastic work he is one of those plodding individuals who, while never brilliant like the shooting star, which burns itself out in a twinkling, moves through life at a sure and steady pace which will gain him success and the approbation of his fellow men.
VERNON O. DRAKE

A K II

37 Colonial Terrace, East Orange, N. J.

Course: Chemical Engineering.

Co-operative Concern: Procter & Gamble Co.

Activities:

A. C. S. .......... 1, 2, 4  A. A. ................. 1, 2, 3
Vice-Chairman .......... 3  Sophomore Hop Committee .......... 2
Chess Club ............ 2, 3, 4  Junior Prom Committee .......... 3
Class Treasurer .......... 1, 2  Student Council .......... 3, 4
Interclass Basketball .......... 1, 2  Rules Committee .......... 2
Asst. Track Manager .......... 1, 2  Technician Editor-in-Chief .......... 3
Kem-Lee-Mek Editor-in-Chief .......... 4

This angelic youth, soon after entering N. C. E., became known among the ranks of the "twenty-niners" by his three outstanding characteristics; his respectful "Here, Sir" answer to roll call, his big slip stick, and his angelic but serious face when reciting.

In Freshman chemistry laboratory classes he was a source of information to the bewildered electricals and mechanicals who didn't know what it was all about.

In spite of his tendency to "glorify beyond recognition," Vernon's sense of humor incites him to wise-crack about everyone and everything at hand.

Vernon has held a safe and comfortable place scholastically, but has also taken an active part in extra-curriculum activities. His work as editor of student publications in both his Junior and Senior years makes up for his non-appearance in athletic circles.

As a friend he is hard to beat, being considerate of others and ready to give his help in time of trouble.
W. LILE FLEETWOOD
B A O
Cape May Court House, N. J.

Course: Chemical Engineering.

Co-operative Concern: Procter & Gamble Co.

Activities:
A. C. S. 1, 2, 3, 4  Interclass Basketball 2
Rules Committee 2

Lile has been one of the shining lights of '29, both literally and figuratively; literally because of his vivid sky-line, figuratively because of his class activity and his unaccountable aversion to accepting the unproved. He has been seen at all college and class activities and has been very active along those lines. We recall how, in class, he always questioned the why and the wherefore of everything before accepting it.

Lile was a very regular student until the past year, when he suddenly developed a habit of making mysterious excursions to nearby towns, for reasons supposedly unknown to anyone but himself. Although he won't tell where he goes, we have our own ideas on the subject.

But, when we who know Lile as our classmates consider him seriously we know him to be a true friend and a square dealer through thick and thin.
ROBERT A. FREW
752 Forest Street, Arlington, N. J.

Course: Electrical Engineering.

Co-operative Concern: Westinghouse Electric & Manufacturing Co.

Activities:

A. I. E. E. .................. 3  Foto Club ...................... 3, 4
Treasurer .................. 4  Ring Committee ............ 4

For four years Bob has had the idea that he would like to become an electrical engineer. It was not until about a year ago, however, that he became at all interested in motors, especially those which caused the motions of certain vehicles. Yes, we mean that Bob has a Ford, but it appears to us to be a little out of date because of that brilliant freshman hue it bears.

All joking aside, we really think there is a chance for this chap to become an engineer at some future date. He is cooperating at the Westinghouse Electric & Manufacturing Co., and according to his own words, there is a big career ahead of him (if most of the present engineers and assistants are kidnapped).

Bob has not been slowing up in the past year, in spite of the fact that lately he learned to dance, and bought that trusty Ford to take himself and the rest of the party to the different hops, but, from what the milkman says, we don’t think he ever gets on many of the waxed floors.
MORRIS FRIEDMAN
122 Rose Terrace, Newark, N. J.

Course: Mechanical Engineering.

Co-operative Concern: The Clark Thread Co.

Activities:

A. S. M. E. ................. 2, 3, 4 Chess Club ................. 2
Cap and Gown Committee .... 4

Morris first graced our halls with his manly form as a student in the night school. It was not long, however, before he realized that he was too good for the night school and joined us in our sophomore year.

Morris is at his best when someone is willing to stand up and argue with him. He is very versatile, and will cross verbal swords on any subject with anyone. He is happiest when he is arguing with a member of the faculty on a subject no one else understands.

In his studies Morris is on a par with the most learned. We do not hesitate to predict that he will be a worthy graduate, for his are the qualities which lead toward success. We are confident that he will leave his Alma Mater to conquer new worlds of fame and fortune.
Course: Electrical Engineering.

Co-operative Concern: Public Service Electric & Gas Co.

Activities:

A. I. E. E. 3, 4 Radio Club 3, 4
Foto Club Vice-President 3 Technician Advertising Mgr. 3
President 4 Kem-Lec-Mek Advertising Mgr. 4

Here is a versatile character. It certainly is amazing how many diverse acquirements one man may confess. Corwin is a member of the Radio Club, a charter member of the Foto Club, and a steady attendant at A. I. E. E. meetings. He is also an adept at wiggling his nose and his ears in opposite directions at the same time.

For three years he trod the straight and narrow path, and what was his reward? Ah, 'tis sad, sad indeed. He was elected advertising manager of this annual. From then on his life was one continual nightmare. Gone was the smile from his face, gone his carefree and buoyant manner, and in its place we found a face haggard and worn from continual exposure to the expletives of irate prospective advertisers.

If words could kill, his Epitaph would be,

One said, "Yes" and " 'twas too much for me."
THOMAS F. GROLL

ΑΚ II

75 Parker Road, Elizabeth, N. J.

Course: Chemical Engineering.

Co-operative Concern: Procter & Gamble Co.

Activities:

A. C. S. .......... 1, 2, 3, 4
Treasurer ............ 3
Interclass Baseball .... 2, 3, 4

A. A. Representative. .... 4
Ring Committee. ...... 4
Track ............ 2

Interclass Basketball.... 1, 2, 3, 4

Early in September, 1925, the natives of Newark were surprised to find in their midst a gentleman from the wild and whiskery town of Elizabeth. As many of us were meeting that day for the first time, he was not noticed particularly. However, as we began to get acquainted, a certain pair of noisy heels, a turned up nose, a perpetual haircomb, and last but not to be forgotten, a blush whose radiance could escape no one began to be associated with a "Tommy" Groll. Aside from this peculiar radiance of the countenance when Tom talks, he is certainly all right. Never a dance does he miss if he can help it and the class basketball teams throughout the four years would not have been the same without him.

Tom expects to try to become a soap artist at Port Ivory when he graduates—"It's all good, clean fun."
HERMAN A. HERR
AKII
1284 Robert St., Hillside, N. J.

Course: Mechanical Engineering.

Co-operative Concern: Singer Manufacturing Co.

Activities:

A. S. M. E. .................. 3, 4
Interclass Basketball .................. 3
Captain .................. 4
Baseball .................. 4

A. A. .................. 3, 4
Executive Council .................. 4
Junior Prom Committee .................. 3
Senior Ball Committee .................. 4

From the wide open spaces of Hillside, unannounced and unsung, there appeared this nonchalant youth shly seeking higher learning at N. C. E. Horace, Herschfield, Herman Herr, alias “Hermy,” is the name, if you please, or better known around College as the big sew and stitch man from Singer’s. What he doesn’t know about sewing machines would do no one any good.

Hermy has one weakness, however, and that is his passion for wearing a derby. Herman doesn’t consider himself dressed up unless he has his pet lid along. We have never been able to inveigle him into wearing it to school; probably he has reason to doubt the more or less noble intentions of his fellow classmates; but truthfully we wouldn’t hurt it—much.

All joking aside, Herman is a mighty good pal and prophecy has it that he will be a howling success professionally.
CHARLES P. HURD
B A O
128 Fairfield Ave., West Caldwell, N. J.

Course: Electrical Engineering.

Co-operative Concerns: Westinghouse Lamp Works.
Splitdorf-Bethlehem Electrical Co.

Activities:
A. I. E. E. ......................... 2  Student Council ......................... 4
Vice-President ..................... 3  A. A. .............................. 1, 2
President .......................... 4  Interclass Basketball ................ 1
Technician, Associate Editor .... 3

"C. P." Hurd is one of our embryo Steinmetzes, whose only great fault, except that which adorns his upper lip, is his passion for radio. His fellow electricals soon recognized his capabilities along this line, and elected him Vice-President, and later President of the local branch of the A. I. E. E.

Socially, as well as scholastically, "Cholly" is noted for his neatness. This, together with his electrical ability, probably accounts for his magnetic influence on his classmates.

Do not get the idea, however, that one of the men of '29 is about to sprout wings. "Cholly's" first two initials do not, in any sense, stand for "chemically pure." He is a man of too wide experience and worldly knowledge to merit any such criticism.

We expect to hear soon of "C. P." successfully communicating via radio with the planet Mars.
JOHN S. IRVING
B4O
247 Prospect Street, Westfield, N. J.

Course: Electrical Engineering.
Co-operative Concern: Diehl Manufacturing Co.

Activities:
A. I. E. E. ................. 2, 3, 4
Class President ............. 1
Student Council ............ 3, 4
Vice-President .............. 3
Varsity Basketball .......... 2, 3, 4

Football Captain .......... 1, 2
Interclass Baseball ......... 2
A. A. Vice-President ...... 3
President ................... 4
Junior Prom Committee Chairman .... 3
Senior Ball Committee ....... 4

We are now honored by the presence of that well-dressed man about town, our blond-haired classmate, "J. S. I." Westfield's gift to N. C. E. and God's gift to women.

It is rumored that Jack can trace his ancestry back to Washington Irving. This probably accounts for his love (?) of English.

There is only one thing that Jack likes better than rolls and butter and that's butter and rolls. He is also fond of radio, being rivaled in this respect only by Charlie Hurd.

"J. S. I." is also noted for his athletic ability, probably acquired while shoveling coal for "J. S. Irving—Coal and Lumber." Socially Jack distinguished himself creditably, serving as class president and in other high offices.

Because of his versatility we predict, for him, outstanding success in some work of life or other. As an electrical engineer he should make a fine coal dealer.
Course: Chemical Engineering.

Co-operative Concern: Van Dyke & Co.

Activities:

A. C. S. .................... 2, 3, 4  Basketball ................. 1, 2, 3, 4
Football ..................... 1, 2  Track ......................... 1, 2, 3, 4
Inter-class Baseball ........... 1, 2

"Jerry" is one of the most prominent men of the class. What makes him so is the well-known traveling bag in which is stored the inexhaustible supply of sandwiches. During the four years, "Jerry" has been the only student at N. C. E. known to carry a full course dinner, sandwiches, pickles, sardines or ———, immersed in a jar of mayonnaise, together with the necessary utensils.

Despite this handicap, he has been very active on the athletic field. As a member of the first Junior Varsity basketball team he showed his athletic ability. He has also been an active member of the track team and of the class baseball and football teams.

"Jerry's" four years at N. C. E. has been successful, and we all agree that his future work as a chemical engineer will be the same.
WALTER J. KASTNER
AKII
8 Hennesy Place, Irvington, N. J.

Course: Chemical Engineering.

Co-operative Concerns: E. I. Du Pont de Nemours, Metasap Chemical Co., National Oil Products Co.

Activities:
A. C. S. .........................2, 3, 4 Class Vice-President .................2
Orchestra ..................1, 2, 3, 4 Senior Ball Committee ..........4

If you should chance to pass a house in the heart of Irvington and hear the melodious moans of a Paganini concerto, step in and investigate the source of the music, and you will find it is none other than our fiddle virtuoso and peerless orchestra leader, "Walt" Kastner. As everyone around the school knows, "Walt" and his fiddle are inseparable pals. Not only does "Walt" swing a wicked bow but he certainly can tickle the ivories.

Fortunately, our illustrious college does not boast of a large number of co-eds; for it is beyond us to comprehend how the fair ones could keep their minds on their work with such a heart-breaker as "Walt" around.

If Walter continues to set such a pace in the industry as he is doing in school, we venture to predict that in years to come he will make his presence felt in engineering circles.
LORENZ M. KLENK
94 Hoyt Street, Kearny, N. J.

Course: Electrical Engineering.

Co-operative Concern: The Clark Thread Co.

Activities:

A. I. E. E. .......................... 3, 4  Cap and Gown Committee ............ 4

'Twas in the fall of 1925 that our good friend "Lorry" entered the portals of N. C. E., coming from Kearny High School, across the river, after spending four long years there at hard work. Now he looks back at those years as four years of recreation.

Now that we know this man, we marvel at his faculty of absorbing both his homework and his sleep each night. "Lorry" says "Get your sleep and you will get your work." He certainly deserves credit for his efficient methods of doing both.

"Lorry" co-operates with the Clark Thread Company, and, to hear him explain the plant, one would think he was the chief engineer, which position we hope he will attain in the near future. Last, but not least, we must say that Lorenz is a good sport and a true friend to all with whom he associates.
MILTON B. LEGGETT
207 N. Day Street, Orange, N. J.

Course: Electrical Engineering.
Co-operative Concern: Crocker-Wheeler Electric Manufacturing Co.
Activities:
Interclass Basketball..............1, 2   Interclass Baseball....................1, 2
Foto Club, Treasurer...............3, 4   A. I. E. E. ..........................2, 3, 4
Art Editor, Kem-Lec-Mek............4

This rotund gentleman from the magnificent town of Orange has already made a distinct impression upon the minds of his classmates. Milt is our photographer, Art Editor and trick whistler extraordinary. Also he is a rising young electrical engineer—at 6:00 A. M. he works (sometimes) for the Crocker-Wheeler Company.

Milt is one of those rare and gifted individuals who never get excited—at least, so one would know it. Judging by outward impressions only, Milt never has anything to do or to worry about. Actually, there is no busier person in this home of learning. Besides keeping up with his assignments (a Herculean task in itself!) he is active in the Foto Club and handles the photography and drawings for this book.

Milt has a most enjoyable sense of humor. Every once in a while he comes out with the drollest statements imaginable without batting an eyelash. He is good company and an excellent student.
HERMAN P. LENK
AKII
96 Montclair Avenue, Paterson, N. J.

Course: Electrical Engineering.

Co-operative Concern: Public Service Electric & Gas Co.

Activities:

A. I. E. E. 2, 3, 4  Cane Sprces 1, 2
Class Secretary 2  A. A. Representative 1, 2
Foto Club 3, 4  Treasurer 2
Interclass Basketball 1, 2, 3

Herman, during his Freshman and Sophomore years, was an industrious student plus a very energetic supporter of all athletic and social activities. During the past two years he has remained an ambitious student, but he never seems to have time for other activities. As may be seen from his picture, Herman is a very handsome, blond-haired lad, so perhaps ladies also prefer blondes.

One day, about three years ago, the whole college was startled by a series of rattles, roars and explosions; upon investigation it proved to be Herman, trying to tame a motorcycle. A-a-h-h-h—SUCCESS! and since then a motorcycle parked in the "alley" has been a common sight.

If Herman's success in life is measured by his personality and ability we predict a great future for him.
EDWARD J. LOTT
AKII
76 Wilsey Street, Newark, N. J.

Course: Electrical Engineering.
Co-operative Concern: New Jersey Bell Telephone Co.

Activities:
- A. I. E. E. ................. 2, 3, 4
- Treasurer .................. 3
- Student Council ............ 4
- Class President ............ 3
- Kem-Lec-Mek—Business Manager ........ 4

To those who are not familiar with the gentleman whose physiognomy you see above, we wish to introduce one of the most popular members of the present Senior Class. Ed is a good mixer and makes friends easily, chiefly because of his unfailing good nature, even temper and pleasant personality.

A glance at the above list of activities makes one wonder how "Skippy" ever manages to accomplish all his duties successfully. He has a system of his own for getting around this, which has proved especially useful in emergency cases.

Ed's managerial ability helped the publication of this volume considerably. We are justly proud of him. He is an able and energetic man and possesses the inherent qualities of a successful engineer—perseverance and capacity to withstand plenty of punishment.

We expect to hear of him in the near future as a leader in his chosen profession.
William B. Morningstern
176 Third Street, Newark, N. J.

Course: Electrical Engineering.

Co-operative Concern: Crocker-Wheeler Electric Manufacturing Co.

Activities:

A. I. E. E. 2, 3, 4
Orchestra 2
Kem-Lec-Mek—Associate Editor 4
Chess Club 2, 3
Radio Club 3, 4

Bill, sometimes called "Aristotle" by some of our '29 wits, has inherited some of the characteristics of that great philosopher. Though still young in years he has developed into one of the master minds of dear old N. C. E. His worst failing is a propensity for sesquipedalian words.

Bill also has proclivities along musical lines and is noted for his radio broadcasts and his numerous unpublished compositions. We forget, now, whether the latest of these is in the key of A or C, but we feel that, properly, it should be in both the A.C. (alternating current) Symphony.

Bill, nevertheless, is to be commended upon the fine scholastic record that he has made during the four-year struggle at N. C. E. and we feel certain that he will make his mark in the world of affairs. As Associate Editor of this book Bill certainly was an invaluable aid, both as a source of literary information and as a diligent and dependable worker.
HOWARD ORRELL
330 First Avenue, Elizabeth, N. J.

Course: Electrical Engineering.

Co-operative Concern: Diehl Manufacturing Co.

Activities:

Basketball ................. 1, 2, 3, 4  Baseball ................. 1, 2, 3
A. I. E. E. ................. 3, 4  Class Treasurer ................. 3, 4
                     Senior Ball Committee............. 4

Behold the smiling villain! He is none other than our class treasurer, H. Orrell, Esq. He has the patience of a cigarstore Indian when it comes to collecting dues. And how he needs it!

Mr. Orrell is the ambassador to N. C. E. from Elizabethport. He is a member of the firm of Volt Brothers, makers of 1R drops. He has been selling this confection for four years with great success.

Our "Howie" has been a very active member in the matter of class functions. His interest in athletics has made him one of the outstanding players in interclass baseball and basketball. He is a very modest young man who takes his tasks seriously.
ALFONS PUISHES
Bao
63 Watson Avenue, Newark, N. J.

Course: Mechanical Engineering.
Co-operative Concern: Gould & Eberhardt

Activities:
A. S. M. E. ................. 2, 3, 4
Varsity Basketball .......... 1, 2, 3, 4
Football .................. 1, 2
Interclass Baseball ......... 2
A. A. Representative ....... 4
Rules Committee ........... 2

Class Vice-President .......... 1
Class President ............. 3
Ring Committee ............. 4
Sophomore Hop Committee .. 2
Student Council, President .. 4
Technician—Circulation Manager .. 3

A man of large parts and ponderous words—that was "Poo." History has it that "Poo" was once captain of a certain high school debating team. Be that as it may, four long years at N. C. E. did in no measure deplete the verbosity of this otherwise budding young genius.

In spite of his recent declaration: "I'm a Mechanical Engineer—not a walking dictionary," the consensus of opinion was that the ability of this youthful Goliath to express himself in words that only Webster could decipher has had its sinister effect upon the entire Class of '29—many of whom fell by the wayside from sheer exhaustion. (The cause of the exhaustion is still a question for debate!)

The reader should not be led, however, into thinking that the aforementioned affinity for using large words interfered with "Poo's" scholastic and social activities. His record at N. C. E. is one worthy of high praise.
JOHN ROMANO
1007 Coolidge Road, Elizabeth, N. J.

Course: Mechanical Engineering.

Co-operative Concern: Singer Manufacturing Co.

Activities:

A. S. M. E..................4  Interclass Basketball..............4

John came from night school and Elizabeth to join us in our junior year. Being a man of some discernment, he had selected the mechanical engineering course.

John has not had much time to take part in our social activities for, besides teaching school at night, he is a proud daddy, and it's a double-header at that.

"Slim" was in the army during the World War and he has often regaled us with stories starting "When I was at the border———." He knows all about horses and—sewing machines.

John always seems to pick the hardest job and to like it, from "grinding" a tensile testing machine to shoveling coal on a boiler test. He's always ready to put his shoulder to the wheel and push. With his knowledge of "Men, Money, and Materials" it is quite evident to us that John's future, for some time to come, is going to be devoted to turning out bigger and better "Singers."
SEBASTIAN SCALZITTI

72 Front Street, Paterson, N. J.

Course: Chemical Engineering

Co-operative Concern: Van Dyk & Co.

Activities:

A. C. S. ..................1, 2, 3, 4 Interclass Basketball ........1, 2, 3, 4
Interclass Baseball ..................1, 2 A. A. ..................1, 2, 3

Sam is one of the smallest men in our class (for his size). What he lacks in stature, however, he makes up in character. One would hardly think, to look at him, that he really has "it." Like Dean Swift, he "bitterly hates the world's shams and inconsistencies."

We understand that after graduation Sam will try for a D. C. R. (Doctor of Chemical Reactions) degree. It is Sam's one great ambition to acquire one more degree than Dr. Giesy, and then to gloat over his accomplishment.

In class, Sam was always the serious-minded student who dug into everything down to the finest points, and was always ready with a question on something entirely irrelevant to the topic under discussion.

In whatever Sam undertakes, however, we wish him the best of luck and predict success for him, mainly because of his non-presumptious manner.
ROBERT F. SCHWARZWALDER

1222 Garden Street, Hoboken, N. J.

Course: Mechanical Engineering.
Co-operative Concerns: Dexter Folder Company, M. W. Kellogg Company.

Activities:
A. S. M. E. .......... 2, 3, 4  Track .......... 1
Secretary .......... 3  Interclass Basketball .......... 1, 2, 3, 4
President .......... 4  Student Council .......... 2, 3, 4
Sophomore Hop Committee .......... 2  Chess Club .......... 2, 3
Junior Prom Committee .......... 4  Technician—Exchange Editor .......... 3
Secretary, Executive Council of Metropolitan Section Student Branches A. S. M. E. .......... 4
Chairman of Press Board .......... 4

Surely you must admit that Bob was not in a pleasant mood when the above picture was taken; you mustn’t blame the photographer, though; the picture can be no better than the original.

Bob’s most serious failing has been an innate desire to depart from the blissfulness of the single state. Fortunately, his “affaires d’amour” have been of short duration and he has come through safely. His supply of prospects, however, seems inexhaustible and we expect at any time to hear of his long-wished-for matrimonial conquest.

Bob has been active in all the affairs of the college—athletic, social, and scholastic. Much of his time this year has been given to the Student Branch of the A. S. M. E.

As a friend, Bob is sincere and ever willing to help and to advise. These qualities, coupled with his abundant good humor, have made him many friends during his sojourn at N. C. E.
JOSEPH H. TOWNSEND
AK II
Valley Road, Clifton, N. J.

Course: Mechanical Engineering.
Co-operative Concern: Paterson Bridge Co.

Activities:

A. S. M. E. .................. 2, 3, 4 Representative .................. 1, 2, 3
Class President ............... 2 Chairman Executive Council ........ 2
Interclass Basketball Captain .. 1, 2 Varsity Basketball ............... 1, 2, 3, 4
Interclass Baseball Captain ... 1, 2 Captain ......................... 4
A. A. Secretary ............... 1 Junior Prom Committee ............ 3

Joe is one of the survivors of the once famous and distinguished "Paterson Gang,"—famous for its number, and distinguished by its large casualty list at the end of the term.

The class of '29, after emerging from the chaos of the freshman year with depleted numbers, looked about for a man to lead the class for the sophomore year. The choice for this duty fell upon Joe, who was duly elected class President.

Joe has been extremely active athletically and socially; he has attended every social function given by the school in the last four years. His sterling performances on the basketball court will remain in the memory of those who have been fortunate enough to see the captain of our 1929 Varsity Team in action.
J. KENNETH VAN BRUNT
ΦΣΩ
25 Union Ave., Manasquan, N. J.

Course: Mechanical Engineering.
Co-operative Concern: Gould & Eberhardt.

Activities:
A. S. M. E. ...........2, 3, 4 Interclass Basketball........1, 2, 3, 4
Student Council........3, 4 Interclass Baseball........1, 2, 3, 4
Class Vice-President.....3, 4 Junior Prom Committee........3
Senior Ball Committee.....4

J. Kenneth Van Brunt is a man of widely separated parts; some of his time he spends in Irvington and the remainder in Manasquan. Despite his rural connections, Van is a perfect gentleman, a good scholar, and a true friend. When action on any variety of business is necessary, we may always feel safe if we rely on him.

Kenneth has a very decided weakness—pumps. It would seem, at first, that this is due only to his interest in those things which are uplifting. A thorough investigation, however, reveals the fact that Van has been associated for many years with those who are responsible for the water supply of the Borough of Manasquan, and, therefore, this interest has grown up with him.

In years to come we expect to find Van at the bottom of the well of knowledge pumping up to light the golden stream of information.
Course: Electrical Engineering.

Co-operative Concerns: Westinghouse Lamp Works.
General Electric Co.

Activities:

A. I. E. E. .................. 3, 4  Cane Sprees .................. 1, 2
Football ....... 1, 2  Assistant Coach .......... 4

Steve, we're sorry to state, has the very reprehensible habit of participating in sprees. Since he is naturally of quiet nature, the result is the more pronounced. Of course, we admit that the environment of Jersey City has driven others from the straight and narrow path, but the fact is that Steve was a model of deportment when he first came to these halls. Now he certainly has the class worried. It is not at all uncommon for him to come staggering into class, of a morning, with a head like a balloon, pieces of skin missing from various parts of his anatomy, and in general, an outward appearance of being all in.

Well, folks, you're all wrong. Steve's condition is not due to imbibing too freely of the flowing bowl. He is a devotee of the great game known as the "Cane Spree." While still quite a young undergraduate he became enamored of this sport, and, with the departure of the regular instructor, was elected, during the past year, to the office of instructor of the sophomore candidates.
CHARLES H. WEISLEDER

995 Townley Ave., Elizabeth, N. J.

Course: Mechanical Engineering.

Co-operative Concern: Weston Electrical Instrument Corp.

Activities:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Class Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. S. M. E.</td>
<td>2, 3, 4</td>
</tr>
<tr>
<td>Football</td>
<td>1, 2</td>
</tr>
<tr>
<td>Interclass Basketball</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td>Interclass Baseball</td>
<td>2, 3</td>
</tr>
</tbody>
</table>

Cane Sprees: 2
A. A.: 1, 2, 3, 4
Representative: 3, 4
Junior Prom Committee: 3

This man, who bears that challenging air of "What are you going to do about it?" seems to have little that bothers him. There are occasions, however, when we have observed a total lack of diplomacy toward a certain flivver motor. It is well that Fords are deaf as well as dumb.

We doubt that Charlie ever lost much sleep because of homework or became careworn at the time of examinations; nevertheless, he always came through safely, somehow. In class he seldom expresses his opinion unless it is asked for; he much prefers to listen to the ideas of others.

There have been very few social affairs that "Weis" has not attended during his four years, since he seldom misses a chance for a good time. If indications mean anything, "Weis" will not long remain in his present state of single-blessedness.
ROBERT H. WINCKLER
18 Clermont Avenue, Irvington, N. J.

Course: Electrical Engineering.

Co-operative Concern: Splitdorf-Bethlehem Electrical Co.

Activities:

A. I. E. E. .................. 3, 4   Foto Club .................. 3, 4

Bob is one of the Jekyll and Hyde type. Sometimes he is studious and argumentative; then, again, it is impossible to anchor his frivolity with the Rock of Gibraltar. And does he get along serenely in English class with Professor DuBois! He and Klenk would revise our English texts so that many lines would be more impressive and of a "whoopee" nature. Winkie possesses the mistaken delusion that he is a humorist, and many a good meter in the electricity laboratory would have gone to its doom in his direction had not an alert professor been in the vicinity. As we all have our little faults, Bob is not unusual, and therefore, his ready smile, sincere friendship, and qualities of a good sport make him welcome in our gatherings.
MEYER YABLONSKY
114 Nineteenth Ave., Newark, N. J.

Course: Chemical Engineering

Co-operative Concern: National Oil Products Co.

Activities:

Orchestra..................3, 4   A. C. S....................1, 2, 3, 4
Chess Club, Secretary..2   A. A............................1, 2, 3

Silence is golden. This is one of Meyer's favorite maxims. Although a very quiet chap he can be considered one of the comedians of the class, for wherever he is, there is sure to be some humor in the air. Meyer is from Missouri. He does not jump at conclusions but must be shown facts before he accepts any proposition put before him. He certainly would be no easy mark for any hocus pocus man.

He is a lover of music and has been successful along this line as everyone knows from his progress in all the college affairs at which he has played.

Since several of the greatest engineers in this country are also excellent musicians, it would not surprise us if Meyer proves to be an outstanding success in both of his professions.
SENIOR AUTOGRAPHS

KEM-LEC-MEK 1929

Paul E. Schneider
Faculty Advisor
Edward J. Roen
President
Kenneth J. Van Brun
Vice President
Marshall C. Basford
Secretary
Howard Arrell
Treasurer

'29

Charles H. Alexander
Robert K. Alexander
Jack Roen
Charles D. Roen
John M. Roen
Walter F. Fendley
Alfred M. Ahern
Lorenzo F. Ahern
Frank H. Strand
Robert Allen Buel
Allan Becker

William P. Manheim
Joseph P. Callahan
Robert A. Callahan
Walter F. Fendley
Lorenzo F. Ahern
Alfred M. Ahern
Frank H. Strand
Robert Allen Buel
Allan Becker

Herman A. Herr
John F. Spring
Corwin S. Bray
Alex Becker

Ann Kelzette
SNAPS OF SENIORS

SPRING'S HERE

OUR STAFF

LOOK!

IN CHEM. LAB.

ENGINEERS

WHAT? - MORE?

IN ELEC. LAB.

MACHINE DESIGN

LEISURE HOURS-WHEN?

KEM LEC MEK
1929
THE DEAN'S IDEA
OF A PERFECT EXAM
UNDERGRADUATES AND ALUMNI
THE CLASS OF 1930

ROBERT W. VAN HOUTEN  W. RICHARD VARNDELL
President  Vice-President
LAWRENCE F. ADAMS  JOHN T. ZIELENBACH
Secretary  Treasurer

PROF. FRANK N. ENTWISLE
Faculty Advisor

THE CHRONICLES OF THE CLASS OF 1930

THE CLASS of 1930 was exemplified in the Kem-Lec-Mek of last year as a group of acorns growing slowly but surely to fullfledged oaks. Now as we stand on the threshold of our life as Seniors, we realize that it is our duty and privilege to cast the cloak of senior dignity about our shoulders, to uphold the traditions of the College, and to assume the responsibilities which shall be ours.

In order to appreciate the growth of these acorns, it is well that we relate our progress to date. September 1926 found us entering the halls of N. C. E., a group of unknowns. That first day will ever be remembered,
especially the indignities to which we were subjected, but which we managed to survive. Revenge was sweet when two weeks later we conquered the mighty Sophs in a hard fought football game and were the guests of honor at the Junior Smoker that night. Parents' Day found us again conquering the Sophs; this time at basketball and in two of the three cane sprees.

During the spring we won the interclass track meet and the baseball championship of the College. This closed our first successful year, but one which was not without its sad episodes, for the mighty axe of the faculty crashed on our hosts both at midyears and at finals.

In September fate temporarily deserted us, for the Frosh managed to eke out a one point victory in the annual football game. We soon rallied and again won the Parents' Day basketball game, two of the four cane sprees, tied for the intra-collegiate basketball championship, won the interclass track meet by an overwhelming score and captured the baseball championship for the second year.

The Soph Hop, our first social function, was held during the Christmas vacation and was pronounced a huge success.

The junior year found us, with our ranks again thinned noticeably by examinations. These vacancies were ably filled by the men of the Twilight Course, who joined us in all our activities for the junior year. The Junior Smoker was the first social event of the college year and was pronounced by the oldest "grads," the best in the history of the College. Thus spurred on, we took over the publication of the Technician, with gratifying success.

The greatest event of our life as a class, however, was the Junior Promenade, held at the Glen Ridge Women's Club, February 22, 1929. It marked our formal social debut, and as such, was a most enjoyable event.

As this year closes and we face our final year at dear old N. C. E., it is with a mingled feeling of joyous anticipation, and yet with just a touch of sorrow, that we welcome the responsibilities which shall fall to us as Seniors and which shall give us the opportunities to prove our strength as the strongest of oaks, as a class which shall always be remembered for its deeds and its loyalty to N. C. E.
RETURNING from a two months' vacation (?) we found the school overrun by a large band of strange-looking bipeds whose very existence seemed dependent upon standing upon one ped with mouths open and eyes staring fishily. It really was a shame to take their money, they were so young and innocent, most of them barely familiar with the rudiments of a worldly life. Coming as they did from the quiet environment of high school, they were due for a rude awakening.

Beginners' luck enabled the Frosh to take the football game away from
us, but justice was on our side and what we didn't put them through at the smoker was a shame.

Seriously speaking, however, the mortality in our class was particularly high, and those remaining were disappointed to find that our football captain had forsaken his Alma Mater for points south,—Alabama in particular. Who knows but that for his presence we might have won the annual game.

It might be appropriate at this time to compose a few obituaries to some of the departed ones. All, of course, remember that little group in the Physics Lab which started the so-called “bull” session when work was slack. You tell one, then I'll tell one........remember? Where have they gone? Probably to their reward.........work. Of course you know to whom we refer; the widely traveled student, Mr. R., the great advertising man, Mr. B., the society man with the flaming personality and the great fur coat.

An event which occupied the attention of the whole class was the Sophomore Dance, which, in Americanese, is termed the “Hop.” This, of course, was the official entrance of the class into the social affairs of the College, and it was declared by all those present that the affair was an immense success. The Sophs are looking forward to the future when they can apply their managerial talent to the Junior Prom and the Senior Ball.

We shouldn't, however, look too far ahead, for according to insurance statistics there will be fewer of us, by a considerable number, in evidence a year or two from now. So, if for no other reason, Sophs, stick around. Remember the dances. The effect is psychological. To benefit by the dances you must be enrolled in the College, and to retain your position you must study. Hence, regardless of your original motive, your marks are satisfactory. Simple, is it not?

Progressing with an eye to the future, the class is looking forward to the publication of the Junior paper, The Technician. With all due respect to the preceding staff, it is believed that The Technician can be made bigger and better, published more than occasionally, and run on a paying basis. As a progressive group we should profit by the mistakes of those who have gone before, and present a first-class publication........and in this respect, we ask the hearty co-operation of the entire college.
THE DIARY OF THE CLASS OF 1932

The Class of 1932 is probably known best for its policy of passive resistance toward the Sophomores. The feud between the two classes smouldered slightly but never really flared up, perhaps because the Freshmen had more serious and vital things to concern themselves with than tiffs with the upper-classmen.

The football game played between the two classes, played every year to decide whether or not the Freshmen shall wear the white socks as a part of the time honored attire, abhorrent to every humble new-comer, resulted in a tie. Though the socks were discarded, the rest of the habit remained
to torture the Frosh. Christmas holidays soon arrived, however, and the caps, tags and ties were cast off, and Freshmen, in perfect peace, smoked lazily in the courtyard, reveling in their new freedom. Parents' Day sounded the knell of the Sophomore reign. The Class of '32 was victorious in the annual basketball game by the score of 32 to 24.

The first year in the College is really a period of transition and adjustment. The metamorphosis by which the student of elementary school is whirled into the maelstrom of a crowded college schedule is not complete in an instant; the result is that he is confused at first and unable to put forth his best efforts. Fortunately, this condition does not last long, and the Freshman is soon able to do his work efficiently.

The Freshman does not have an easy road to travel during his year, with constant quizzes and the inevitable examinations which ever loom before him. Indeed he is a very worried individual and receives little consolation from the fact that the percentage of his classmates who start with him and do not finish the first year is alarmingly high. He cannot help feeling a little gloomy as he casts his eye down the roll of the classes, and notes, with new-found knowledge, that the numbers of students in the several classes from Freshman to Senior, decrease in arithmetical progression. With all his troubles, however, the Freshman manages to enjoy himself somewhat. There are numerous activities in which he may participate after school hours to take his mind from routine things. Then too, there are several vacation periods which serve to break the monotony of uninterrupted application to studies.

To those who are familiar with the scope of the curriculum of the College, it is not surprising that athletics, as a main issue, are not emphasized. Athletics are, however, encouraged, and many Freshmen have availed themselves of the opportunity of taking part in a highly competitive series of games. During the basketball season, for instance, numerous Freshmen teams played against each other and against teams of the upper classes. While the Class had no competition with teams outside of the school, this was, in a measure, a distinct advantage in the development of the individual in each sport, as he was not neglected in order that the best team might represent the Class.

Many Freshmen were interested listeners at the meetings of the various engineering societies. Most of the addresses were of an advanced nature, but the average Freshman looked wise and said nothing. Next year, of course, he will know everything, at least in his own estimation. For then he will achieve the dignity and power of that wisest of fools—the Sophomore.
TWILIGHT COURSE

THE Twilight Course of the College had its beginning two years ago. The course is conducted between the hours of five and seven in the evening and covers the work of the Junior and Senior years of the College, hour for hour, during a period of three years. The same degree is granted on completion of the course as is granted the student in the regular day classes.

Although it was rather difficult, by reason of time limitations, for the men of this section to participate in the social activities of the College during the first year, they have been present this year at quite a number of functions. The twilight men are associating with the men of the corresponding day graduating classes, both socially and fraternally.

This year many men taking this course enrolled as members of the various engineering societies, and, in several instances, presented papers in the meetings. In fact, this college was represented at the annual Student Convention of the A. I. E. E., held last April 26th, in New York, by a student in the twilight section.
THE ALUMNI ASSOCIATION

Our ultimate growth and expansion is therefore a responsibility that rests squarely on the shoulders of our graduates.

A graduate on Commencement Day little realizes the exchange of responsibility that is his in his passing from the undergraduate to the graduate stage. In his undergraduate position he endeavors to do justice to himself and the faculty in preparing his assignments to the best of his ability in order that he may obtain the coveted degree. Having received the degree, he takes upon himself a great moral obligation which grows as the years pass by. He must answer to himself for his own personal success in his chosen profession. He must compare himself to graduates of other schools and universities. How favorable the comparison is depends entirely upon his own personal ambition and his loyalty to his Alma Mater.

These views may not be evident in the years immediately following graduation, but let the four years of another school term go by and the view becomes clear and commanding.

So, those of us who have had the privilege of the training that is ours have a life's obligation to the school which gave to us those fundamental assets of character—honesty, industry, sincerity and a sense of deep responsibility.

To foster those ideals which were given to us, we have formed this "Alumni Association of the Newark College of Engineering." All graduates are earnestly invited to join in active membership in order to promulgate the principles of their undergraduate days and to keep in direct contact with the college and their classmates. The Alumni Association has established for itself a strong operating organization, whose success depends entirely upon the co-operative support of the graduate body.

OFFICERS OF THE ASSOCIATION

WILLIAM VANDER SCHAAF, '25, President
FREDERICK WOLPERT, '27, Vice-President
HOWARD G. PATTON, '27, Treasurer
SOLOMON FISHMAN, '27, Secretary

BOARD OF GOVERNORS

FREDERICK DAMITZ, Chairman

Term expires 1929
A. KOPF, '26
J. BRENDLEN, '27
V. H. RIPLEY, '27
MILTON HOLMES, '23

Term expires 1930
J. SPIELVOGEL, '23
R. WIDDOP, '24
H. G. PATTON, '27

S. FISHMAN, '27
ALUMNI

CLASS OF 1923

Earl F. Adams, B.S.  
Gustave H. Bjorklund, B.S.  
Donald K. Craig, B.S.  
William Crutchlow, B.S.  
Frederick C. Fraser, B.S.  
Milton Holmes, B.S.  
F. Leslie Jacobus, B.S.  
Judson G. Spofford, B.S.  
Joseph Spielvogel, B.S., M.E.  
Elwyn Waller, B.S.  
Joseph P. Wludyka, B.S., Ch.E.

CLASS OF 1924

Ira Bergman, B.S., Ch.E.  
George Boorujy, B.S.  
Cecil S. Davis, B.S.  
F. Raymond Fogel, B.S.  
Norris Kosches, B.S.  
Carl P. Mannheim, B.S.  
Leo J. Mosch, B.S.  
John H. W. Nile, B.S  
Lawrence J. Patterson, B.S.  
William L. Perrine, B.S.  
Samuel Reigenstreich, B.S.  
Charles A. Schultz, B.S.  
Arthur L. Vanderlip, B.S.  
Robert Widdop, B.S.

CLASS OF 1925

Charles C. Bauer, B.S.  
Charles M. Beyer, B.S.  
Frank W. Borman, B.S., E.E.  
Lawrence E. Burnett, B.S.  
Philip G. Cobb, B.S.  
Donald S. Collard, B.S.  
Frederick M. Damitz, B.S.  
Granger Davenport, B.S.  
Charles A. Fausel, B.S.  
Herman C. Hesse, B.S., M.E.  
Harry E. Hosking, B.S.  
Frank A. Jillard, B.S.  
Kenneth Marshall, B.S.  
Robert J. Morganroth, B.S.  
Herbert B. Pollard, B.S. (deceased)  
Wm. D. Vander Schaff, B.S.

CLASS OF 1926

John M. Coe, B.S.  
Frederic Cox, B.S.  
John F. Ditsch, B.S.  
Edgar C. Fischer, B.S.  
Albert S. Kopf, B.S.  
Charles J. Lee, B.S.  
Martin Monahan, B.S., Ch.E.  
Frank Orosz, B.S.  
William K. Perry, Jr., B.S.  
Henry O. Probst, B.S.  
Frederick W. Riemer, B.S.  
Daniel M. Rosamabilia, B.S.  
Francis G. Rosenfelder, B.S.  
Adrian W. Stevens, B.S.  
Herman Ulanet, B.S.  
Frank M. Wlosinski, B.S.
### CLASS OF 1927

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Louis Balenson</td>
<td>B.S.</td>
</tr>
<tr>
<td>Lewis H. Bates</td>
<td>B.S.</td>
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<tr>
<td>Arthur Booth</td>
<td>B.S.</td>
</tr>
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<td>Joseph Brendlen</td>
<td>B.S.</td>
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<tr>
<td>Paul R. Cunliffe</td>
<td>B.S.</td>
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<tr>
<td>Barney A. Diebold</td>
<td>B.S.</td>
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<td>Harry W. Dierman</td>
<td>B.S.</td>
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<td>John J. Drukker</td>
<td>B.S.</td>
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<td>Lester W. Dunn</td>
<td>B.S.</td>
</tr>
<tr>
<td>Lawrence V. Edwards</td>
<td>B.S.</td>
</tr>
<tr>
<td>Solomon Fishman</td>
<td>B.S.</td>
</tr>
<tr>
<td>Howard C. Goellner</td>
<td>B.S.</td>
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<td>Frederick S. Wolpert</td>
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### CLASS OF 1928

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Ralph A. Brader</td>
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<td>Edward S. Bush</td>
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<td>Jerome E. Hequembourg</td>
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<td>J. Leonard Kuhn</td>
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<td>Frederick Wm. Speckmann</td>
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<td>Nathan Silberfeld</td>
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<tr>
<td>Arthur Spinanger</td>
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<tr>
<td>Henry Tobler, Jr.</td>
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<td>Vincent Vitale</td>
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<td>Gustave R. Weidig</td>
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<tr>
<td>Roswell R. Winans</td>
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COLLEGE ROSTER

CLASS OF 1930

Lawrence F. Adams  Rufé J. Hardy  William Osterheld
Alfred B. Anderson  Henry Harrison  Robert J. Philipson
Archie H. Armstrong  William Hazell  Philip T. Piaget
Werner K. Baer  Theodore W. Hecking  Eddythe R. Raabe (Miss)
James C. Bowman  Fred A. Hedeman  Armand G. Rehn
Edwin B. Branigan  Fred W. Heil  Martin Rieger
Victor J. Cantlupe  Frederick P. Highfield  Francis J. Rogers
Yuan Liang Chia  John S. Irving  William J. Schwerdtfeger
Ellis B. Crane  Anthony H. Lamb  Clark H. Shaffer
James K. Dennis  Francis X. Lamb  Morris Slurzberg
Paul J. Dumont  Edward A. Leiss  Theodore E. Starrs
Julius Dvorak  Ralph W. Lindeman  Ralph H. Stelljes
Louis Ehresmann  Adolph H. Loos  Carl M. Stuehler
Michael J. Elias  William J. Melick  Thomas J. Tully
Joseph E. Fachet  Richard A. Miller  Charles Urban
Julius E. Forcella  Kenneth A. MacFadyen  Robert W. VanHouten
Charles A. Goelzer  Paul S. Nastasio  Walter R. Varndell
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Michael E. Berardesca  Herman A. Hagman  George D. Rust
Albert L. Blackwell  Charles H. Hull  Alexander Rutledge
Horace B. Blore  Rudolph J. Jurick  John B. Scheid
Henry C. Brannman  Albert Katz  Francis L. Schmidt
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Cornelius R. Breitenbach
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David F. Davis
James P. Dawson
Howard D. Decker
Alfred De Maio
Albert P. De Nicholas
William De Ritter
Harold J. Dibblee
Walter A. Dietz
Henry C. Dohrmann
Robert Dunn
Vincent Ellis
Anthony J. Fallone
Americo A. Faruolo
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James V. Galiano
Henry S. Gildersleeve

William Goldchain
Maurice Gordon
Irving C. Grabo
Alfred J. Guzzetti
William Hevert
Cal W. Hexamer
Max Heyman
John A. Hoerter
Laurence H. Hoffman
George P. Holland
Henry F. Hoppe
Edward M. Hopper
Edward T. Horn
Carl H. Huebner
Charles C. Hughes
Richard E. Hull
Preston A. Hunt
Fred John
Vincent P. Judkins
Irving Kahree
George C. Keeffe
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Day B. Landis
Charles Laslo
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Walter Lenahan
Warren M. Little
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Walter W. Meyer
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James G. Miller
Immanuel Mirkin
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Hilton H. Moore
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Irwin L. Phillips
Thomas D. Pitts
Stephen Pogosawew
Joseph Poliseo
William D. Pursley
John B. Quinn
Milton I. Ravich
Ralph A. Risimini
John G. Robb
George R. Robbins
Claude Romano
Louis T. Rosemburg
John R. Rustako
Matthew T. Ryan
Norris B. Sacharoff
Richard A. Sages
Michael J. Saltarella
Walter P. Sarnowski
Frank Schiro
Douglas B. Simpson
Norman A. Sliker
Bruno Stempel
Wallace W. Stults
Edwin G. Sutcliffe
William M. Tango
Kenneth H. Tiffany
Anthony Tornambe
Abe Turner
Charles E. Washburn
Donald A. Waterfield
John J. Weir
Abraham Weisenfeld
Carlton P. Werner
James Wesson
Fred H. Wheadon
Ernest A. Willis
Andrew N. Wilson
Carl F. Wilson
Martin Wyckoff
KEM LEC MEK 1929

UNDER-GRAD SNAPS

FRESHMAN - SOPHOMORE GAME

A "Civil"

THE CO-ED

FOR AVIATION

GLASS BASKETBALL

ELECTRICALS
ORGANIZATIONS
THE STUDENT COUNCIL

ALFONS PUISHES
President

WILLIAM HAZELL
Vice-President

AUSTEN T. MCLELLAND
Secretary-Treasurer

THE STUDENT COUNCIL

THREE years ago, the Class of 1926 saw the advantage and need of a student organization. Therefore they issued an invitation to the entire student body to be present at an organization meeting from which the present Student Council has grown.
The purpose and duties of the Council are many. Since it has been organized, the Council has presided at all convocations through the medium of its president. It has standardized the college colors and also the N. C. E. ring. In addition the Council has taken charge of the arrangements for Parents' Day.

At the election of officers this year, the following men were chosen: President, Mr. Puishes; Vice-President, Mr. Hazell; Secretary, Mr. McLeland; and Treasurer, Mr. Davis.

This year, the Council has been working on a Freshman bible, the advancement of an aeronautical society, the improvement of the bulletin board, and the extension of publicity for the College. The Council has also been working on a new constitution.

The Student Council believes that it has a future before it replete with opportunity. Many matters have arisen, many will arise in the future, concerning the decisions of such a body should be a controlling factor; many events will occur which demand its action or intervention. In order that the Council shall function with wisdom and judgment, and for the best interests of all, it should have a firm foundation, both in organization and in the backing of the student body. These first years of its existence have been occupied in building that foundation of organization, good will, and precedent upon which shall rest its future activities.

The question has often been raised, "By what authority does this body function and how can it enforce the rules and regulations which are enacted at its meetings?" The answer is this, "The Student Council is representative of the entire student body by virtue of its membership. The body is composed of the most representative men of the classes, societies, and other organizations; no one can be more representative than the presidents and vice-presidents. These men are acting for the groups which they head. They are familiar with the opinions of their respective groups, and will act for the best interests of those by and for whom they are authorized to speak. Therefore, when the various organizations, through their representatives in the Student Council, authorize the taking of any steps, or the enactment of any regulations, it becomes the obligation of the various groups, separately and collectively, to support their representatives in every way possible. Or, in other language, the authority of the Student Council is the decision of the majority of the governed, which is the equal of the authority of any similarly constituted organization."

With this backing, the Student Council is now taking its proper place as the highest and most powerful student organization. Its major work is yet ahead of it: to guide safely and to govern wisely the future multitudes during their brief sojourn in this institution.
In the few years of the Branch's existence there has been no year more successful than the one just past. From the opening of the school year until the closing there have been brought before its members some of the most outstanding individuals of the engineering profession, men who are...
leaders in their various fields of work, and who “know the game” thoroughly.

The first meeting of the year was what might be termed a “get-together night.” At this time, Professors Brooks, Baker and Schweizer spoke to the men, urging them to attend the meetings, and impressing on them the value of coming out and taking an interest in the Society’s activities. A new member of the faculty in the Mechanical Engineering Department, Professor Rice, was introduced to the members of the Society. Mr. Roberts, who held Professor Rice’s post last year, was the principal speaker and gave a very interesting illustrated lecture on his travels through Europe as a member of a Student Engineers’ Touring Party.

At the next meeting, the speaker of the evening was Mr. Werre, of the M. W. Kellog Company of Jersey City, who spoke on “Practical and Theoretical Furnace Construction.”

The November meeting was perhaps the largest and best student meeting ever held in the history of the Student Branch. Three hundred and fifty people heard Mr. Augustus Post, the famous aeronautical expert, deliver his well-known lecture, “Pioneers of the Air.” This lecture was illustrated by slides showing the development of the airplane from its earliest stages to the modern machine.

At the December meeting two motion pictures were shown, “White Coal,” and “The World’s Fastest Ocean Cable.”

In January the Branch was fortunate in securing Dr. Alfonse Adler, the well-known consulting engineer. Dr. Adler spoke on “The Educational Background of the Engineer,” stressing the importance, to the executive, of a knowledge of human nature.

Mr. J. A. Lawrence, a vice-president of the A. S. M. E., gave a talk before the Branch on “Interesting Problems in Power Plant Layouts.” Mr. Lawrence illustrated his lecture with slides showing the construction details of some of the largest power plants in the country.

In March two student papers were presented by Messrs. Van Brunt and Schwarzwalder. Mr. Van Brunt spoke on “Fuel Burning Equipment for Modern Steam Plants,” and Mr. Schwarzwalder on “Oil Cracking Furnaces.” These papers were very well received.

In May, the Society was indeed very fortunate in securing Mr. Robert Kent, editor of the Mechanical Engineer’s Handbook, who spoke on “Metal Finishing.”

The annual smoker of the Society was held in May, and was one of the best ever held in the history of the Student Branch. Those who were present will remember the fine time enjoyed by all, and will doubtless look forward to another affair of similar high standard next year.
THE Newark College of Engineering Student Branch of the A. I. E. E. is but one of a hundred similar societies functioning under the auspices of the Institute, which have been organized in the engineering colleges throughout the United States. In the Metropolitan Section there are seven other such organizations whose representatives, in co-operation with those
from the local branch, have done much to make possible the annual Student Convention in New York City. The local representatives have been elected as the Program and House Committees for the 1929 convention. Inaugurated as a student branch in 1926, the local society has prospered until it is now one of the largest and most active groups within the College.

The first meeting of the season was held on October 8. At this time, an interesting description of the "History and Development of Bakelite" was given by Mr. Emerick Toth, a graduate of the College, who is employed by the Bakelite Corporation.

Mr. George Davis, of the Davis Electric Company, spoke to the Branch on October 22. The subject of the lecture was, "The Importance of the National Electrical Code to the Engineer." Through the efforts of Mr. Davis and the kindness of the Fire Insurance Society of Newark, many of the members were given copies of the Code.

"Trans-Atlantic Telephony" was the theme of an illustrated lecture, of December 3, by Mr. G. R. Ottinger, of the N. J. Bell Telephone Company. A number of humorous anecdotes made this a most enjoyable evening. At the close of the meeting plans were made for an inspection trip through the central offices of the Company in Newark.

Mr. J. A. Hepperlin, of the General Electric Company, spoke on "A. C. Printing Press Control" on January 7. This lecture gave the members considerable insight into a few of the problems connected with modern printing machinery.

An illustrated lecture on the development and uses of the oscillograph was given by Mr. C. A. Meade, of the Westinghouse Electric & Manufacturing Company, on the evening of February 11. The lecture was followed by a demonstration of the "Osiso," a portable oscillograph developed by this company.

Interspersed among the practical meetings just described were those devoted to student programs. Throughout the year there were nine student papers delivered in the competition for a prize offered to the author of the best paper presented to the Branch. A number of the students presented excellent papers and much credit is due them. The judging committee selected Mr. W. K. Baer, of the Junior Class as winner of the prize.

On March 18 the Branch held a joint meeting of the four engineering societies. Mrs. Carolyn V. Wright, dietitian of the Castles Ice Cream Company, gave a very interesting talk on the "History and Manufacture of Ice Cream," which was supplemented by samples of the company's product.

The Society has plans for the future, which, it is hoped, will offer still greater opportunities for the advancement of engineering interests.
The year 1929 marked the most successful one in the history of the Student Branch of the A. C. S. This remarkable progress was undoubtedly due in part to the fact that Mr. Bochner was at the helm of the society. Under his able guidance, and with the cooperation of the other members, the society staged such activities as placed it on a par with the other societies in the College.
The first meeting of the organization opened with enthusiasm on October 9. At this meeting plans for future meetings of the year were discussed and committees were appointed to carry out these plans.

Shortly after this, the results of the previous discussion came to a definite conclusion when the committee brought Mr. Collard as a speaker for the November meeting. Mr. Collard is an alumnus of the College and is employed by the Metasap Chemical Company. His topic dealt with metallic soaps and was very enthusiastically received by both the students and by the professors who were present at the meeting. At this meeting an incident of unusual significance to the society occurred. This was the large attendance. In previous years the number of students at these meetings was small. This held real promise for the future welfare of the society.

At the next meeting, on December 11, an address was delivered by the president of the society, Mr. Bochner, who chose as his topic, the "Manufacture of Lithopone." Mr. Bochner was well qualified to speak on lithopones, as he had been employed for about two years by the Du Pont Company, manufacturers of lithopones and other paint products. As in the previous meeting, the turnout was very large.

On February 8 the society established a precedent which should be a worthy example for the other societies to follow. This affair was termed the annual get-together meeting, and was for the purpose of bringing the faculty, the alumni, and the undergraduates together for a social good time. This meeting was held at the Newark Auto Club. Here we had the unusual honor of having as our guests Dean Cullimore, Professor Stewart and Professor Bradley. Refreshments and smokes, as well as varied humor, were on the program. Music for the occasion was furnished by the college orchestra. Dean Cullimore and the professors who were present were unanimous in their approval of this kind of gathering, and expressed their desire that the other societies, as well as the A. C. S., should continue to hold meetings similar to this one.

The A. C. S. has not ceased in its efforts to gain prestige and it has had some very ambitious programs in addition to the aforementioned meetings. One of the speakers was Mr. Monahan, who has received his Ch.E. degree from the College. He gave a very interesting talk on linoleum, on which subject he is considered an expert. Mr. Kass also gave an interesting lecture on textiles.

The analytical balance which you perceive on the page opposite has been adopted by the society as the most representative insignia of chemical engineering. The society wishes to take this opportunity to thank Professor Stewart for offering this excellent symbol to the organization.
THE CIVIL CLUB

ROBERT W. VAN HOUTEN
Chairman

W. RICHARD VARNDELL
Secretary

KENNETH A. MAC FADYEN
Vice-Chairman

RALPH H. STELLJES
Treasurer

THE Civil Club was organized in the spring of 1928 by the students in the civil engineering course of the college. The purpose of the organization, as stated in its constitution, is "to promote and further the interest and standing of its members in the engineering profession, and to develop a spirit of co-operative service in professional, civil, and social life for
the common good of all." Professor Harold N. Cummings was chosen faculty advisor of the club.

Application has been made by the Civil Club for membership in the American Society of Civil Engineers as a student branch. At present, all requirements of the Society cannot be met, so the entrance of the Newark unit is temporarily delayed.

The first regular meeting was held on March 10, 1928. This was a general organization meeting. The prospectus of the constitution was read, and plans for future meetings were outlined.

On May 7, the meeting was given over to the election of officers and the enrollment of charter members of the club.

At the June 4 meeting, Mr. Archie Armstrong, a civil engineering student in the Twilight Course of the college, gave a lecture on "The Development of Port Newark."

The first meeting of the current school year was held on October 1. A general discussion of plans for the club took place. The members decided to sponsor an inter-society dance, and with this in view, the other collegiate engineering societies were approached on the subject. A general lack of interest was manifested, so the matter has been dropped for the present.

The main feature of the November meeting was a lecture upon "The Field Control of Concrete" by Mr. L. E. Andrews, of the Portland Cement Association. On December 10, Mr. A. B. Anderson, a twilight student, spoke upon the work of the engineering staff of the City of Newark in connection with the maintenance and extension of the water supply system.

At the January meeting, student papers were read. On February 18, Dean Cullimore, who himself holds a degree in civil engineering, gave a lecture upon several of his experiences while surveying in the Maine woods.

It will be seen from the list of programs, that several were turned over to members of the student body. In common with the other societies, the Civil Club believes that the efforts of its members along speech-making lines should be given its support and encouragement.

The activities of the Civil Club are not at all confined to the regular meetings. On May 31, last year, an outing was held at Lake Hopatcong. Plans for a similar affair have been tentatively discussed and trips to engineering works in this vicinity will be undertaken.
CHAPTER ROLL

ALPHA .................................................. NEWARK COLLEGE OF ENGINEERING
BETA ...................................................... WAGNER COLLEGE
GAMMA ..................................................... STEVENS INSTITUTE OF TECHNOLOGY
DELTA ...................................................... POLYTECHNIC INSTITUTE OF BROOKLYN
EPSILON ................................................... ELLSWORTH COLLEGE
ZETA ........................................................ COE COLLEGE
ETA ........................................................ PRESBYTERIAN COLLEGE
THETA ..................................................... COLUMBIA UNIVERSITY
IOTA ........................................................ MOUNT UNION
KAPPA ................................................... MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ALPHA CHAPTER

CLASS OF 1929

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Vernon O. Drake
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Michael Elias
Kenneth A. MacFadyen
Albert E. Bennett
Frank S. Coe
Walter E. Frohboese
William Arnot
Howard D. Decker
Kenneth Feister
Charles M. Flemming

Herman A. Herr
Walter J. Kastner
William S. O'Connor
John B. Opdyke
Clark H. Shaffer
Charles H. Hull
William G. Lanterman
Ralph O. Menke
Richard E. Hull
Day Landis

CLASS OF 1930

Herman P. Lenk
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John T. Zielenbach
Stanley F. Spence
John A. Steiger
Ralph T. Urich

CLASS OF 1931

CLASS OF 1932

CLASS OF 1931

CLASS OF 1932

Richard W. Lemassena
Arthur MacPeak
Charles Washburn
Carl M. Wilson

CLASS OF 1932

'ALUMNI

Louis Balenson
Charles Bauer
Charles Beyer
Ralph Brader
Edward Bush
Raymond Cox
Stanley Cozza
George Deaney
Barney Diebold
Harry Dierman
George Dorn
William Falconer

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Charles Forsythe
James Gibbons
Frank Goldbach
Revere Harbort
Wilson Hull
John Kane
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Clifton Keating
Lawrence Koch
Albert Koph

John Kuhn
Kenneth Marshall
Robert Mayer
Leo Mosch
William Opdyke
Henri Precheur
Edmund Redmerski
John Roche
Clifford Siess
Arthur Spinanger
Edward Weinstein
Frederick Wolpert

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BETA ALPHA THETA FRATERNITY
BETA ALPHA THETA FRATERNITY

CLASS OF 1929

W. Lile Fleetwood  
Charles P. Hurd  

John S. Irving  
Alfons Puishes  
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Oswald Carliss  
Alvin R. Graff  
Waldemar F. Larsen  
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Arthur Davis  
James A. Wesson

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Henry B. Drake  

Herbert R. Ford  
Malcolm W. Mitchell  
Arthur L. Porter  
Lester E. Walker

ALUMNI

Gustave H. Bjorkland  
Arthur Booth  
Frank W. Borman  
Donald S. Collard  
Frederick Cox  
Donald K. Craig  
Paul R. Cunliffe  
Frederick M. Damitz  
Lester W. Dunn  
Frederick C. Fraser  

F. Raymond Fogel  
Henry K. Hemje  
Jerome E. Hequembourg  
Milton Holmes  
Robert W. Jenkins  
Frank A. Jillard  
H. Rupert Le Grand  
Charles J. Lee  
Robert W. Meyer  
Frank Orosz  
F. Murray Paret  
Lawrence J. Patterson  
Howard G. Patton  
William L. Perrine  
Lester D. Smith  
William D. VanDerschaaf  
Albert A. Van Voorhees  
Gustave R. Weidig  
Roswell R. Winans

Herbert B. Pollard (deceased)
GAMMA CHAPTER

PHI SIGMA OMEGA FRATERNITY
CHAPTER ROLL

ALPHA..............COOPER UNION INSTITUTE OF TECHNOLOGY
BETA..................COLLEGE OF THE CITY OF NEW YORK
GAMMA................NEWARK COLLEGE OF ENGINEERING
DELTA.................MONTCLAIR STATE TEACHERS COLLEGE

GAMMA CHAPTER

CLASS OF 1929

Robert F. Schwarzwaldner
Kenneth J. Van Brunt

CLASS OF 1930

Lawrence F. Adams
Louis Ehresmann
Paul S. Nastasio
Werner K. Baer
Adolph H. Loos
William F. Wismar
Richard A. Miller

CLASS OF 1931

Horace B. Blore
Ernest Haer
John P. McCullen
Cara Caramanian
Rudolph J. Jurick
Austen T. McLelland

CLASS OF 1932

Emanuel Berlenrut
Vincent Ellis
Edwin J. Sutcliffe
Harold J. Dibblee
Edward Hopper
Donald A. Waterfield

ALUMNI

August L. De Schryver
Karl J. Probst
Edward A. Schulte
Gerald A. Higgins
Karl S. Geiges
Frederick W. Speckmann

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THE orchestra of the Newark College of Engineering was organized several years ago, through the fine efforts of Mr. Kastner of the Class of '29, for the purpose of supplying music for the various festivities at the College such as meetings, Parents' Day exercises, and dances held after the basketball games.

Thus far, the orchestra has indeed been fortunate in enrolling as members from the student ranks men of exceptional talent and ability. These men have had much valuable experience as members of well known orchestras and have gladly offered their musical services to the N. C. E. Orchestra. Further-
more, they spend much of their valuable time rehearsing with the orchestra, which is not an easy thing to do at this college, as any of the students will testify.

We shall now get a glimpse of what the orchestra has done to make itself famous during the past year. At the beginning of the year the Alumni met and decided to hold their annual banquet in the Kinney Building in Newark. Their committee convened and made arrangements for the meeting. Everything was all set for the big affair, but yet it seemed to the committee that something was lacking; without that certain something the affair would not be the success that was expected. After spending many evenings in secret session, trying to determine what was lacking in the arrangements for the alumni banquet, one of the committee hit upon it while he was engaged in a peaceful slumber in the small hours of the morning. Then it was that he calmed the troubled minds of the committee. What was it that they had neglected in arranging for their banquet? That's right, it was music. But who was to furnish it? Who else could it be but the N. C. E. Orchestra? To make a long story short, the committee communicated with Mr. Kastner, who was then leader, and offered to allow his orchestra to play for the alumni. The following day members of the orchestra met, and, after much harangue and debate, acceded to the committee's desire. Soon after that, the contract between the orchestra and the alumni was signed, and when the banquet was over, all those present heartily agreed that the committee man who suggested the music certainly had the right idea. Without a doubt, the presence of the N. C. E. Orchestra at that banquet added greatly to its success.

A short time after that, history repeated itself when the alumni staged their annual dance in Campbell Hall. There, the most marvellous music of the orchestra completely entranced those who were present, and to this day one may hear the alumni whistling and humming the tunes with which the N. C. E. Orchestra made the affair a success.

Not long after that, an opportunity presented itself whereby the merits of our musicians could be compared with those of Stevens Tech. This took place at the A. S. M. E. Convention in New York City. Needless to say, they did not suffer by this comparison.

In addition to the aforementioned gatherings, the orchestra has played at the dances following the basketball games with Stevens Tech, Rider College, and the Alumni. At the Parents' Day exercises, which were held in February, the orchestra furnished the music while our parents and the Freshmen were enjoying the luncheon.
WITH a few minutes left at the close of one of the Freshman mass meetings a group of Sophomores began to sing and harmonize. Fortunately the bell rang, but the spark was set to the tinder. It was decided to reorganize the Glee Club, taking up the work where it had been left off in the previous year. Practice was begun forthwith, and so active was the work that it attracted many new-comers to its ranks.

Very shortly after this the Glee Club sang several numbers at the second convocation of the year. Their efforts were well received, which added fuel to the burning enthusiasm. On Parents’ Day the Glee Club worked in collaboration with the Orchestra to entertain our guests with music while they dined. The singing lent a collegiate atmosphere to the occasion which was very desirable. The Glee Club again sang on Alumni Night to show their predecessors that the present organization is not falling down on the job which had been started by other hands. The most impressive feature of this program was the Club’s singing, in harmony, of our “Alma Mater” while the entire assemblage stood. This was the first time that this had been accomplished, and the members felt well repaid for their time and effort.
THE TECHNICIAN

THE 1929 STAFF

WILLIAM J. MELICK, JR.
Editor-in-Chief

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Associate Editor

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Circulation Manager

LAWRENCE F. ADAMS
Business Manager

WILLIAM S. O'CONNOR
Advertising Manager

DR. H. GRAHAM DUBOIS
Faculty Advisor
FOTO CLUB

Due to the fact that our faculty advisor, Dr. Crane, has left us we were rather slow in undertaking new business; however, in our first meeting of the season we chose Professor Peet as our new advisor, and under his careful guidance we prospered fairly well during the scholastic year. The officers elected for this year were as follows:

Mr. Corwin S. Gray
Mr. Milton B. Leggett
Mr. J. A. Petrolino

President
Treasurer
Secretary

We have finally succeeded in completely equipping our dark room, and we are now able to develop, print and enlarge pictures of a high standard. The fine type of work which is accomplished was well demonstrated on Parents’ Day by Messrs. Frew, Becker and Gray, who submitted many good prints and enlargements, while Mr. Leggett displayed many examples of tinted photographs. All of the snapshots for this year book were furnished by club members.

At present, the club is composed of members of the day classes only, but we hope soon to welcome the students in the twilight section.

Any students desiring to use the dark room for photographic purposes may obtain permission to do so by handing his name and the time at which he wishes to use the room to one of the Foto Club officers. Any students interested in photography are heartily welcomed to club meetings.

THE RADIO CLUB

It is common knowledge that radio communication, which includes, besides the transmission and reception of radiograms, the broadcasting of entertainment and of television pictures, has become an integral part of American life. The United States has attained supremacy in this particular field, and is now the center of a world-wide system of direct communication by radio with all parts of the civilized world. In view of the preceding fact, it is evident that the student, after graduation, will come in contact with some phase of radio, regardless of the branch of engineering he may pursue. With this in mind the Radio Club was organized in March, 1928. Its purpose is to promote the science of radio among the students of the college, so that
they will have some knowledge of its fundamental principles. Membership is open to any student who desires to further his knowledge in this field.

For promotion of the club’s activities, the College has generously contributed a corner of the Electrical Laboratory for use in radio experimental work. The student members have also contributed their share of essential apparatus, and, in a few cases, donations came from interested non-members. The club plans to install a broadcast receiver, a short wave receiver, and a short wave transmitter. Experimental work will be carried out on various types of circuits in order to become familiar with their principles of operation. For instruction of members who are unfamiliar with the radio code, an oscillator has been installed.

These opportunities are but a few of the plans of the Radio Club and its associated members. It is hoped that through these plans the members will not find their time wasted.

THE CHESS CLUB

The Chess Club is unique in the College. Its chief purpose is to give relaxation to the T. E. (tired engineer). No game is so restful as chess. It removes from the mind all thoughts of sine waves, transits, thiosulphate groups and steam turbines. It enables the man to resume his work refreshed.

The Chess Club of the Newark College of Engineering has been in existence several years, and each year more men realize the great advantages that a knowledge of chess affords the student. It teaches the student to study everything carefully, and not to use snap-judgment.

Under the leadership of their able faculty advisor, Professor Baker, the members of the club have made great inroads into the fascinating game of chess. Under his direction a tournament is under way, and from this they hope to form the nucleus of a team that can compete with the chess teams of other colleges.

Next year N. C. E. will probably have another varsity team of which she may well be proud.
1929 has seen the formation of an honorary engineering society at the Newark College of Engineering. With the cooperation of the Student Council, the Faculty selected seven men from the Senior Class whose scholastic standing placed them within the highest quarter of their class. From the Junior Class, three men were selected whose standing was within the highest eighth of their class. The selections were based not purely upon scholastic standing but also upon distinction in extra-curriculum activities, character, initiative, and general promise of success in the engineering profession.

Those selected are:

- R. Barrasso '29
- M. C. Bassford '29
- A. Becker '29
- V. O. Drake '29
- M. Friedman '29
- W. Morningstern '29
- A. Puishes '29
- L. F. Adams '30
- R. Stelljes '30
- R. Van Houten '30

As the year book goes to press the society has not completed its organization plans. Its purpose, standards, and ideals, however, are well defined and it is thought that as it grows and gains prestige, the honor of membership will be highly aspired to, by all undergraduates and the society will fill a real need in the College.
ATHLETICS
THE ATHLETIC ASSOCIATION

JOHN S. IRVING
President

WILLIAM HAZELL, JR.
Vice-President

ALEXANDER RUTLEDGE
Secretary-Treasurer

ALVIN R. GRAFF
Chairman of Executive Committee
NEWARK'S VARSITY

Bochner
Branigan
Colson
Godleski
Harrison
Irving

MacFadyen
MacPeak
Melick
Landis
Puishes
Lott
Townsend
Van Houten
VARITY BASKETBALL

SCHEDULE

Long Island University ................................................ December 8
Columbia College of Pharmacy .................................... December 14
Stevens ................................................................. January 5
Brooklyn Polytechnic Institute .................................. January 12
Mercer Beasley ....................................................... January 26
Rider College ......................................................... January 19
Newark Technical School ........................................ February 9
Long Island University ............................................. February 16
Upsala College ........................................................ March 2
Alumni ................................................................. March 9
The basketball team this year won two games of the ten played. The team suffered greatly because of the loss of several players by reason of graduation. When the first practice session was called by Coach Entwisle, twenty-five candidates responded. Among these candidates were five letter men from the previous year, Captain Townsend, Puishes, Melick, Irving and Van Houten. It was around these men that the coach expected to build the team. The fight for positions by the new candidates, however, was so spirited that at no time during the season was anyone assured of his position.

This season completed four years of varsity competition for Captain Townsend and Puishes; both men should be complimented on their showing during this period. Accomplishments of this nature are not common in collegiate sports.

The team has not yet selected a captain for next year but whoever is chosen will no doubt prove as good as those we have had in the past.

The squad this year though not composed of individual stars, was by far one of the best groups of men to ever represent this institution on a ribbed court. While they did not win the majority of the contests in which they fought, the squad made a good showing and played the game squarely, as befits the Newark man. We at this institution do not play basketball for renown but for the sheer joy the sport affords the participants.
VARSITY TRACK

SCHEDULE

Interclass Meet .......................................................... April 13
Wagner College .......................................................... May 4
Savage ................................................................. May 18
Cooper Union ........................................................... May 25
Suburban Intercollegiates ................................. June 1
HENRY L. HARRISON

Captain

POOR weather and unforeseen circumstances caused frequent postponements of our dual meets last year. While the late start hindered us from shaping into top form and showing our full wares, nevertheless our season was fairly successful.

We opened the track season with the inter-class meet, which resulted in a victory for the Class of ’30. Individual honors were carried off by Irvin Falk.

Savage School, of New York, was encountered in our first dual meet. The Gothamites repeated their win of last year, but it was a hard earned victory, for our boys provided them with plenty of stiff opposition.

Following this, came Wagner College, our friendly rivals from Staten Island, intent on scoring successive victories. Competition in this meet was most keen, with the outcome in doubt until the final event. By placing three men in the quarter mile run we were assured of victory.

We brought the season to a close with the Intercollegiate Meet, which was conducted under the auspices of the Newark College of Engineering. Newark Normal School, with a well balanced team, captured first place, while we had to content ourselves with fourth place.

This spring we have another large squad, having lost only a few men. Our schedule calls for inter-class competition, followed closely by dual meets with Savage, Wagner, Newark Normal and several others.

Professor J. C. Peet has taken over the conditioning and training of the squad. Under his tutelage and the leadership of Captain Harrison we look forward to a successful season.
INTRA-COLLEGIATE BASKETBALL

THE Freshman Electrical X team, intra-collegiate champions, played through a successful season, winning six games and losing three. They were victorious over the Freshman Mechanicals, Chemicals, Mechanical-Civils, and Electrical Y, the Sophomore Mechanicals, and the Chemical-Civils. They were defeated by the Juniors, Seniors and the Sophomore Electricals.

Dick Sages and Jimmy Galiano, the only members having any previous experience, played at forward and led the scoring for the team. Art Davis and Freddie John played consistent games at guard, while Al Brunell, captain of the team, upheld the center position. The team had no regular substitutes but wishes to express its gratitude to Ken Fiester, Max Heyman, Jack Robb and Bill Hoerter, all of whom were members of other teams.

All games, with the exception of that with the Freshman Mechanical-Civils were played after school. This game was played at night as a preliminary to the Stevens—N. C. E. game. The hardest fought contest was with the Sophomore Mechanicals. The Freshmen won by the score of 15 to 14.
THE INTER-CLASS CANE SPREES

THE ANNUAL cane sprees between the representatives of the Sophomore and Freshman Classes were held on Alumni Night, March 8. The championship bouts have been customarily held on Parents' Day, but it was decided to run them this year on Alumni Night instead, which is probably the more appropriate occasion.

The Sophomores were coached by Wagner, the middleweight champion of the 1927 bouts, and a member of the present graduating class. The Freshmen were coached by Ehresmann, of the Junior Class.

The freshman heavyweight representative was unable to appear in the final matches because of a bad sprain sustained in the elimination bouts.

The results of the bouts were:

- Heavyweight—won by Scillia '31
- Middleweight—won by Hoerter '32
REMARKABLE VIEW OF ROWAN CARRYING THE MESSAGE TO GARCIA

"THEY SHALL NOT PASS"

DR DU BOIS TAKING A SOPHOMORE FOR A SLEIGH RIDE
RETROSPECTION
"WHAT'S that noise? What's that cloud of smoke? Is Krueger's on fire?" Such were the questions asked by a passerby on Friday night, September 28, 1928, when the men of Newark gathered at the Krueger Club for their annual Junior Smoker. This smoker was among the best ever staged by a Junior Class. There was plenty of smoke, music, noise and fun, enough to satisfy everyone.

After a brief address by President Bob Van Houten, Dean Cullimore delivered one of his far-famed straight-forward talks. Following this, Professor Entwisle called for men for the basketball team. He stressed the fact that we were out to play basketball for sport, not to make N. C. E. a college known for its athletic prowess. Then Professor Peet spoke about track possibilities and, as can be seen now, succeeded in bringing to light a great deal of interest in that sport.

The Sophomores made a big hit with their act. They presented Guy Hunter, the well-known blind radio entertainer, for their share of the evening's pleasure.

The Freshman wits next appeared on the rostrum. They strutted about. proud of their importance. Their life histories held little of note until the day that they decided to enter N. C. E.; then life opened up like a flower. Their jokes were very good, (many of them having been good for some time). Watching these sweet Freshmen break in their corncob pipes caused much merriment among those who had passed through that stage. The poor lads tried to look sophisticated but only succeeded in emulating meek lambs.

Many Seniors puffed at their first cigars. The effects, said one, were highly pleasing. He no doubt intends to be a Senior next year so that he can get another one.

Oh, yes, the alumni were well represented. In the usual bull session after the formal entertainment they held full sway. Regardless of their "line," however, Newark is justly proud of her loyal alumni.

For an innovation, the Juniors served doughnuts and punch. This menu was voted better than the regular bill of fare. Future Juniors take notice! Bill O'Connor and his committee certainly put over a good night's sport for the College. When the next smoker comes, just let us know. We'll all be there!
ONE day during each school year the Newark College of Engineering acts as host to the fathers, mothers and friends of its students. The College buildings are thrown open to visitors for inspection of equipment and the facilities which are provided for the training of prospective engineers, as well as some of the work done by the students in the various laboratories.

This year the College entertained over six hundred guests. The Senior Class, under the able direction of Mr. Townsend, took the guests on personally conducted tours of the buildings. The Juniors, in the Electrical and Testing of Materials Laboratories, the Seniors in the Mechanical Engineering Laboratory, and the Freshmen in the Physics Laboratory all put on very interesting demonstrations of the work done and tests performed by the various departments. The exhibits on Civil Engineering, Chemistry, Radio and Photography were less spectacular, but none the less interesting, and came in for their share of attention.

At eleven fifteen everyone went up to the assembly hall on the top floor of our newest building, Campbell Hall, and attended a short convocation, which was presided over by Mr. Puishes, President of the Student Council. This year we were greatly honored by having as one of our speakers, Commissioner Elliot, of the State Board of Education. We also listened to short addresses by Mr. F. L. Eberhardt and Mr. E. F. Weston, of the Board of Trustees of the College; Dean Cullimore; and Professor F. N. Entwisle, our basketball coach; not forgetting the man without whom no Parents' Day would be complete, our well-liked Assistant Commissioner, Dr. W. A. O'Leary.

When the convocation was dismissed everyone went down and up stairs until they arrived at the Student Commons, where a most delicious lunch was served, under the direction of the Freshman Class. While the meal was in progress, the College Orchestra entertained with a few selections, and the Glee Club, under the direction of Dr. Giesy, contributed to the festive atmosphere.

The culmination of the series of athletic battles fought out on the basketball court came on the afternoon of this eventful day. The picked warriors of the Frosh and Soph Classes engaged in a terrific struggle, which proved very entertaining to our visitors. The Freshmen finally carried off the palm, to the no little discomfiture of the mighty (?) Sophomores.

The cane sprees which heretofore have been held on Parents' Day were run off this year on Alumni Night, March 16, instead.
SENIOR BALL COMMITTEE

HERMAN A. HERR
Chairman

ALLAN BOCHNER
WALTER J. KASTNER

JOHN S. IRVING
HOWARD ORRELL

KENNETH VAN BRUNT
JUNIOR PROMENADE COMMITTEE

W. RICHARD VARNDELL
Chairman

HENRY L. HARRISON
WILLIAM HAZELL
KENNETH A. MACFADYEN

WILLIAM J. MELICK, JR.
WILLIAM S. O'CONNOR
JOHN T. ZIELENBACH
THE SENIOR BALL

The Senior Ball, the affair of affairs in our calendar of social college events, was held on the tenth of May in the Elizabeth Masonic Temple.

The most noted ballrooms of the state were considered for this function and, after much discussion by both the committee and the class, we felt confident that we had chosen the gem of them all. The huge success of this event certainly bore out our belief. The compliments spoken the night of the dance were so many, that, before the affair had progressed far, all the Seniors seemed to show evidence of unusual swelling of the chest.

The excellent music of the evening was furnished by Elmer Everiss and his Orchestra. The magic of the delightful harmonies of the instruments certainly carried the dancers off on the wings of merriment.

The Senior Class realizes that this ball was one of the outstanding events in our college history, and much credit should be conferred upon the patrons, patronesses and the committee. The committee consisted of Herman Herr, chairman, J. Irving, H. Orrell, K. Van Brunt, A. Bohner and W. Kastner.

JUNIOR PROMENADE

The Class of 1930 held its Junior Promenade at the Glen Ridge Women's Club, on the evening of Washington's Birthday. The affair was very well attended, and was unanimously declared a notable event. The Cliff Club Orchestra, of Irvington, furnished the music.

The class promenaded immediately after the conclusion of the first half of the dance. Mr. Robert W. Van Houten, Class President, led the line and addressed the guests of the evening. The Juniors and their partners presented a very fine spectacle which will live for a long time in the memory of everyone present.

The committee in charge of arrangements consisted of W. Richard Varndell, chairman, John T. Zielenbach, finances, Wm. S. O'Connor, Wm. J. Melick, Jr., Kenneth A. MacFadyen, Henry Harrison and Wm. Hazell. Professor Entwisle, class advisor, was the guest of honor. The patrons and patronesses were Professor and Mrs. J. A. Brooks, Professor and Mrs. H. N. Cummings, Professor and Mrs. J. C. Peet and Professor and Mrs. V. T. Stewart.

The members of the Class of 1930 will never forget the pleasure derived from preparing and executing the plans for the Promenade. This event, the first formal presentation of each class as it passes through the College, is one that is long contemplated and which affords the thrill of achieving an important milestone in the history of the class.
THE ANNUAL spring dance of the Alpha Chapter of the Alpha Kappa Pi Fraternity took place on Friday, March 22, at the Glen Ridge Women's Club.

The music, as presented by Elmer Everiss and his Orchestra, was considered among the best of the season. This orchestra, which was heard for the first time at any of our college functions, will undoubtedly be heard from again. Combination favors were given consisting of tan leather folds inscribed with the fraternity coat-of-arms in gold. The ladies seemed well pleased.

Dean and Mrs. A. R. Cullimore, Assistant Dean and Mrs. J. A. Bradley, Professor and Mrs. P. E. Schweizer, Professor and Mrs. A. A. Nims, and Professor and Mrs. H. N. Cummings honored us with their presence as patrons and patronesses.


The second annual Interchapter Dance of the metropolitan chapters of the fraternity was held in the Hotel Manger, New York City, on Saturday, April 13. The Crystal Room supplied beautiful surroundings for the affair.

Ray Stano and his Orchestra supplied the music until two A. M. Distinctly novel favors were presented to the ladies.

Charles Forsythe, of Alpha Chapter, headed the committee and was supported by E. Redmerski, also of Alpha, and members of each of the other four metropolitan chapters.

THE SIXTH annual formal dance given by Beta Alpha Theta was held on Thanksgiving Eve at the Glen Ridge Women's Club.

An atmosphere of gaiety prevailed as the crowd danced to the enticing tunes played by the Hillcrest Entertainers. The occasion was favored with clear, crispy autumn weather conducive to an enjoyable evening. Besides, there was the anticipation of the holidays to follow, so that, in general, everyone was in the merriest of spirits.

Attractive silver book marks were given as favors.

As were the dances of the past years, it turned out to be a real success as the first formal affair of the season. The patrons and patronesses were Dean and Mrs. A. R. Cullimore, Professor and Mrs. H. N. Cummings, Professor and Mrs. J. C. Peet, and Assistant Dean and Mrs. J. A. Bradley.

A great deal of credit is due the committee, which consisted of I. V. Falk, chairman, J. S. Irving, W. Hazell, Jr., H. C. Brarmann, and W. F. Larsen.
THE SOPH HOP

THE Soph Hop, one of the informal dances of the college year, was given by the Class of '31. As an established tradition, the Hop was held in the Campbell Hall Gymnasium, which was artistically decorated with blue and gold crepe streamers, in harmony with the Class colors. The date of this memorable occasion was December 26, a Friday night during the Christmas recess.

The happy couples danced under the swaying streamers to the enchanting melodies played by Jack Brown and his famous Belle Vue Castle Orchestra. Knowing the sterling worth of Ben Eskin of the Sophomore Class, who so ably performed at the piano, it is little wonder that the orchestra was so successful in presenting the enticing tunes which stirred the throng.

The patrons and patronesses who so kindly consented to be present were: Dean and Mrs. A. R. Cullimore, Professor and Mrs. P. E. Schweizer, Professor and Mrs. M. H. Merry, and Professor R. B. Rice.

It almost goes without saying that the Hop was a success, both socially and financially, due to the splendid help and the fine co-operation of the members of the Sophomore Class, as well as the fine attendance of the other classes. As expected, it compared favorably with all previous dances of its kind, to the satisfaction of the Class and those who attended. It was an event which brightened the Christmas holidays to the fullest extent.
“In all this Cuban business…….”
“Vell,…….y-es—dot’s wrong.”
“Now I will demonstrate the seven motions of the earth.”
“He glorified his job beyond recognition.”
“It’s our policy to keep our students busy and broke.”
“Go to the board and put on the vector diagram of…….”
“Do you fellows ever do any studying?”
“Well, I don’t know but I’ll look it up tonight.”
“Well, how shall we begin?”
“Well, he said to put it down that way. How do you want it?”
“Oh, no, oh, no,”
“Bochner, you’re through!”
“Oh-h-h, y-a-a-s?”
“Well, now, my boy, you’ve got me.”
“W_h_o p_u_t_w_a_t_e_r_i_n_m_y_p_o_c_k_e_t?”
“Last week there was a meeting of the A. S. M. E.”
“Ach, the high schools are r-r-r-otten, they teach you nothing.”
“His posture would have been better if he had not tried to imitate Steinmetz.”
“What do they do with the rest of the body?”
“I don’t know anything about this so I’ll tell you what I know.”
“Well……., when you figure it out…….”
“Gravy is optional.”
“Well, my boy, what job would you like?”
“This isn’t a college, it’s a penal institution.”
“Have they any co-operative plan?…….That’s what I’d like to know!”
“Too technical.”
“He looked furtively at his audience.”
“He could not read his own writing” (The paper was typewritten).
“From his report he seems to be interested in his co-operative work.”
“Vestance is ……”
“I want a cent!”
“Before Prof.…….could tell him to turn, Prof.…….was all the way to Jersey City in his new Marmon.”
(To guide in the Ford plant) “How do these brakes work?”…….“I don’t know, but I can tell you how a Durant works.”
The patent dish-washing machine, from which “the parts are hauled out and wheeled away.”
A NUT is an inanimate person; inanimate from the neck up. To quote the “Calculus,” the word “nut” is used to denote that person, or group of persons, who have their little eccentricities. Referring to the Mechanical manual, it is found that when a fixed ended beam is loaded on one end and “loose” at the other, something is bound to snap, you can’t get away from it. The explanation as laid down by the mathematician Cash Carryon may be summed up by the statement “the state of nuttiness, imbecility, etc., is brought about by the general break-up of the brain tissues, caused by the main spring releasing a gadget in the iridium, thus sending a person’s thoughts off in a tangential direction, rather than on the characteristic parabolic curve. This means, of course, that the thought does not follow the equation $y = mx + b$, hence all other facts being equal, the preceding is null and void and subject to change at the discretion of the management.”

Perhaps you have wondered what this is all about; to tell the truth, we don’t know any more than you do, but we’re good bluffers too, and we won’t give in.

Summing up the preceding short, unclear explanation as to the “whys” and “wherefores” of the proposition we were discussing: nuts, and the question—where is the “Annual” staff going after graduation.

Folks, they’re all going to institutions of higher learning. Some of those from Jersey City and vicinity are planning upon entering Snake Hill University, others in North Jersey will enter the University of Morris Plains, but the vast majority are planning upon taking a P. G. (“Permanently Guaranteed”) course at the University of Overbrook. It is rumored that, and we have found upon investigation, entirely possible, that Napoleon Bonaparte is matriculating there, also Homer and Iliad. Someone said that Helen of Troy was taking a Domestic Arts course, but the latter cannot be vouched for. The staff has been arguing over the latter. Upon checking up they found nobody in Troy who had a daughter called Helen, but the staff is still willing to be shown.

The students will be instructed in ethereal dancing, basket making, and filing. Dancing is taught on the green “sword” and those with tender feet are sometimes embarrassed by having a toe or heel go loping off through the tall grass as they gallivant in their morning gambols. Of course you have guessed that the Institution is in the “Nutt” business. Baskets are made from dry grass, in which the nuts are gathered and stored, usually six feet under. It is customary to place lilies, tablets, etc., above so that
the nuts can be located and shipped on the day when the judging is done.

The office force, that is those studying business are given a course in filing. Each one is supplied with a stack of paper and a small file and told to go to it. The paper filings are gathered, stained a dark brown, sprinkled with pepper and placed on the market as snuff. The great difficulty here, lies in the fact that the color fades—and even the user's best friend won't tell him (he has dandruff).

Well to sum up everything, all nuts don't come in shells.

*Ikwa, his mark*
ACKNOWLEDGEMENTS

The 1929 Staff wishes to take this opportunity to thank all those who assisted them in the publication of this annual. It would have been impossible for the Staff alone to shoulder all the work of preparing a book of this character.

We are therefore indebted to Messrs. Becker, Friedman, and Puishes for the preparation of some of the special articles, to Mr. R. P. Barrasso for printing of forms, and to Mr. John B. Opdyke '30, and Mr. Waldemar F. Larsen '31, for their contributions to the art work.

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