Each achievement that opens new horizons of knowledge and understanding can be traced to those who have the responsibility of nurturing and developing curiosity, creativity, and industry in men while they are students. But of course we can not draw direct lines of source. Education works that way: the things that count, the things you really use come to you imperceptibly, unawares. For achievement rests not on mere factual memorization, a test grade, or a rehash of the past; but on these abstract traits which are never learned from any text.

It is to the members of the teaching profession who endeavor to instill these qualities in us, to make us worthy of the name “engineer” that the 1960 NUCLEUS is dedicated.
If there is going to be progress, individuals, groups of individuals, and organizations must think of, and plan for, the future. We at Newark College of Engineering are today involved in the preparation of detailed plans and specifications for the expansion of our facilities as provided for by the college bond issue. This stage in our development was not reached overnight, but actually began about six years ago, when we made enrollment predictions with respect to the need for the construction of Cullimore Hall and the new Weston Hall.

In addition, our faculty has, for some time, been giving careful consideration to the revision of our curricula. This, too, is a matter of looking into the future, because the College has the extremely difficult but challenging responsibility of endeavoring to provide each of its engineering students with an education which will make it possible for its graduates to solve problems, in many instances, undreamed of when those same engineering graduates were students.

Our very existence as a nation, both as to defense measures and our economic welfare, is dependent upon this willingness and ability to look into the future and plan today for tomorrow's needs.

May each of you be sensitive to the necessity for looking and planning ahead, and may you develop to the fullest any talents which you have in that direction, so that you may render maximum service to your fellow citizens, and by so doing, find that great satisfaction which comes from having put forth your best effort.

I do want to take this opportunity to extend my congratulations to each of you on having reached this important milestone in your career and to wish you every success and happiness in the years ahead.
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ELECTRICAL ENGINEERING
DEPARTMENT
MECHANICAL ENGINEERING DEPARTMENT

Prof. G. B. Thom, Chairman; Prof. J. L. Polaner, Executive Associate; Prof. E. Miller, Asst. Executive Associate; Prof. R. E. Bannon, Mr. L. J. Buteau, Mr. E. Flicker, Mr. L. Fuller, Mr. R. A. Gaal, Prof. R. M. Jacobs, Prof. M. Levy, Prof. W. J. Michels, Mr. D. C. Pearce, Mr. I. Poss, Prof. J. O. Predale, Mr. K. E. Preusse, Prof. L. J. Schmerzler, Prof. T. A. Schneider, Prof. E. H. Smithberg, Prof. E. Stamper, Mr. C. E. Wilson, Mr. G. M. Worden.
MANAGEMENT ENGINEERING DEPARTMENT
As an engineer: I have a deep, abiding respect and faith in the ideals of my chosen profession; I believe that membership in it entails the most solemn obligations—obligations that I am eager and earnest to fulfill; I believe that, as a member of this profession, I have a vital and personal responsibility to act for the benefit of mankind, to render usable nature’s vast material reservoirs and her latent energies.

As an engineer: I believe that the duties and the responsibilities of the profession rest more heavily upon me because of the traditions, the heritage, and the accumulated experiences passed down to me by members of the same profession in earlier generations, and I believe I should dedicate my efforts to the furtherance and development of these ideals and the dissemination of our philosophy and practice to younger men of the profession, that it may warrant a high place in the field of human endeavor.

As an engineer: I believe, in common with all men, that I should strive for the common good, interest myself in the service of humanity, and render to my fellow man and to my community without thought of material recompense such service as will be for the greatest public good.

As an engineer: I further believe that my profession requires in its very nature particular sensitivity to moral obligations and to the broadest human welfare and progress, that our world, with its material things of the mind and of the spirit, may be a better place to live in.

All these things I do truly believe and to these principles I solemnly commit myself.
The Senior Class Council, under the capable advisorship of Mr. Malcolm Simon, successfully planned and executed the political, social, and economic affairs of the Class of 1960. Comprised of representatives from each section and five officers, elected annually, the Class Council channeled their efforts to sponsor the Senior and Junior Proms, class picnics, square dances, and many other social events. On the political and economic scene, questions of policy regarding graduation procedures, elections, appropriations of funds, and issues of concern to all students were discussed at the bi-weekly meetings.
You, the Class of 1960, have reached another rung on the ladder of success. Upon graduation from Newark College of Engineering, you will enter a world at a time when complex environmental influences are at a new peak. As you enter this new phase in your life, take time to reflect upon your achievement and upon the challenge which now confronts you.

Our modern society depends on an ever-increasing supply of people of higher education, high conceptual skill, and high theoretical knowledge. It also depends upon the ability of each of us to understand and love our fellow man. This combination of intelligence and understanding is, unfortunately, a quality not common today. Yet it is within your grasp if you desire to reach for it.

May I take this opportunity to extend to each and every one of you my heartiest congratulations and my very best wishes for success in all your endeavors.

J. MALCOLM SIMON
Faculty Adviser
Class of 1960
HARRY ANDERSON  
B.S.M.E.

PERCY S. AUSTEN  
B.S.M.E.

ROBERT B. AXT, JR.  
B.S.M.E.

NICHOLAS BABICH  
B.S.M.E.

WILLIAM E. BAMBRICK  
B.S.Ch.E.
DENNIS W. BOWMAN
B.S.E.E.

PHILIP BLOOM
B.S.E.E.

EDWARD A. BLYSKAL
B.S.M.E.

BENEDICT A. BOETTCHER
B.S.E.E.

JOHN R. BOTTGER
B.S.M.E.

ALFRED F. BLACKFORD
B.S.Ch.E.

DENNIS W. BOWMAN
B.S.E.E.
ALDO M. CACCAMO
B.S.C.E.

MICHAEL J. CAFONE, JR.
B.S.M.E.

JAMES P. CALDWELL
B.S.E.E.

RICHARD CANTWELL
B.S.E.E.

JOSEPH G. CAPPETTA
B.S.M.E.

ANDREW D. BROWN
B.S.M.E.
ROBERT T. DE ROSA
B.S.M.E.

SERAFINO DE FRANCO
B.S.M.E.

MICHAEL R. DEMCSAK
B.S.C.E.

MICHAEL J. COYLE, JR.
B.S.M.E.

JAMES D. DECKER
B.S.C.E.

LOUIS DE VITO
B.S.E.E.
VINCENT F. DIFINI  
B.S.E.E.

DONALD V. DI MASSIMO  
B.S.E.E.

IRWIN DOLINER  
B.S.E.E.

MARTIN DONNER  
B.S.M.E.

RONALD W. DORAN  
B.S.M.E.

MARTIN H. DREYER  
B.S.Ch.E.
CLARENCE W. EMMANS  
B.S.E.E.

ROBERT C. ERDMANN  
B.S.M.E.

BERNARD L. FAMIGLIETTI  
B.S.E.E.

CHARLES ENZ  
B.S.M.E.

BENJAMIN R. FELDMAN  
B.S.M.E.

JOSEPH P. FERGUSON  
B.S.M.E.
ELBERT H. GALLAGHER
B.S.C.E.

RONALD S. GAJDOS
B.S.E.E.

ARTHUR N. FREEMAN
B.S.M.E.

ROBERT G. GEISSLER
B.S.E.E.

LEONARD D. GIGANTINO
B.S.M.E.

ALEXANDER I. GERUS
B.S.M.E.
V. WILLIAM GOVITS
B.S.M.E.

RICHARD A. GRESS
B.S.C.E.

WILLIAM F. GRIESE
B.S.E.E.

JACK GRIFFEL
B.S.Ch.E.

GEORGE GROCHOWSKI
B.S.Ch.E.

DONALD E. GROGAN
B.S.E.E.
PAUL E. HUBER
B.S.E.E.

BURTON A. HOLLANDER
B.S.M.E.

ROGER F. HONE, JR.
B.S.Ch.E.

NORBERT G. HORNSTEIN
B.S.E.E.

ROBERT W. HOUSKAMP
B.S.E.E.

THOMAS A. HOVE
B.S.M.E.

PAUL E. HUBER
B.S.E.E.
KIMBERLEY L. HURON  
B.S.E.E.

EMERSON C. IRONSIDE  
B.S.Ch.E.

JURI JALAJAS  
B.S.C.E.

ROBERT JENNY  
B.S.C.E.

RICHARD O. JUHRDEN  
B.S.Ch.E.
ANATOLE KULYK  
B.S.C.E.

DAVID D. LAIRD  
B.S.M.E.

JOHN F. LA ROSA  
B.S.M.E.

WILLIAM LEE  
B.S.E.E.

STANLEY F. LE FEVRE  
B.S.E.E.

CORNELIUS J. LEONARD  
B.S.E.E.
TERENCE J. McGURN
B.S.E.E.

DONALD W. McNEILL
B.S.E.E.

ROBERT J. MESLAR
B.S.E.E.

ARNOLD F. MEYER
B.S.Ch.E.

JOHN L. MENDOZZA
B.S.M.E.
JOSEPH A. MILLER
B.S.E.E.

HENRY E. MIELO
B.S.E.E.

JOSEPH A. MILLER
B.S.E.E.

PATRICIA MINNELLA
B.S.E.E.

ROBERT H. MIRRER
B.S.M.E.

JOHN A. MOONEY
B.S.M.E.
JAMES W. MURRAY  
B.S.C.E.

ANTHONY J. MYURA  
B.S.E.E.

CHARLES L. NALEZNY  
B.S.C.E.

MATTHEW M. NIGRO  
B.S.Ch.E.

WILLIAM R. NORCROSS  
B.S.M.E.
RICHARD R. RYER
B.S.Ch.E.

ALFRED J. SALOMON
B.S.Ch.E.

THEODORE C. SAUER
B.S.M.E.

THOMAS E. SAUNDERS
B.S.M.E.

WILLIAM SAVIN
B.S.E.E.

FRANK SAVINO
B.S.M.E.
"Push three, please," is a familiar request on the elevator. Sooner or later all students head toward the 3rd floor in Cullimore Hall. Here, the Student Activities Office is the headquarters of the dances, elections, athletic events, meetings and dozens of other projects which arise daily.

If it's something different with lots of fun and work then, "Push three, please."

ACTIVITIES OFFICE

CAROL HARRINGTON

PROF. ROBERT SWANSON
"The meeting is called to order"... Every other Tuesday, President Dave Bannon, began the Student Council meetings with that familiar phrase. During the course of the year the Council discussed the plans and problems of the student body and acted as a hub co-ordinating the activities of the student body. The Council consists of one representative from the Athletic Association, Interclub Council, Interfraternity Council, Publications Council, Honors Council, Professional Societies Council, and the four classes.

The work of the Student Council was carried out throughout the year. The Financial Committee, under through its committees, which worked continually the leadership of Charles Churchill, aided the Council in apportioning the funds and in regulating revenues from activities, fees, and other sources. The Social Calendar Committee, headed by James Herschel, regulated the schedule of events for the college, coordinating the events to allow maximum benefits to the student body.

The officers who guided the Council so ably were Bannon, Vice-President Herschel, Corresponding Secretary James Liaci, Recording Secretary Leona Balkende, and Treasurer Richard Constabile. Their record showed many accomplishments. In co-operation with Dr. Estrin and Professor Swanson, the Council was able to develop a closer relationship between students and the administration and practice together one of principles of philosophy upon which the College was founded—the development of the "whole man."
Who's Who Among Students in American Universities and Colleges selected twenty-five students from Newark College of Engineering to appear in their book for 1960. The selections were based on participation in activities, academic standing, and leadership.

Along with a write-up in "Who's Who", each member is eligible for a gold key. Also available to members is a service of furnishing resumes for business or educational groups on the request of the member.
The NUCLEUS guided by its editors and adviser, Professor Shawcross, has sought to present a pictorial history of the Class of 1960. Social events, activities, and fond recollections of the life at N.C.E. are recorded within its pages. The staff joins in hoping that it will provide the graduating Seniors with a NUCLEUS of pleasant memories.

1960 NUCLEUS

DR. JOHN SHAWCROSS
Advisor
The Publications Council continued to be a working organization rather than a title. All the publications submitted their budgets to the Council, which drew up a master budget which was submitted to the Student Council. This plan eliminated much of the previous duplication of effort.

The four permanent members of the Council are the Vector, the Orbit, Log NCE, and the Nucleus. Temporary members are the Samaritan, Steamlines, Reactions, the Cadet, and the Surveyor.

The Vector continued to serve the entire student body and the college through complete coverage of all events concerning the students, faculty, and administration. The key feature stories of the year were the passing of the College Bond Issue, the completion of Weston Hall, and NCE's Seventy-fifth Anniversary.

February marked the first anniversary of the Vector, which had replaced the Technician as the school's spokesman. The Vector carried on where the Technician left off with a definite purpose, having "magnitude and direction"—to serve the entire college community.
The CADET is a monthly publication of the Cadet Wing of Det. 490, which includes cadets from Newark College of Engineering, Upsala College in East Orange, and the Newark Colleges of Rutgers University. The CADET publishes news concerning the Cadet Wing and Det. 490 with occasional items of interest about the Air Force and Airpower.

The editor of the CADET is the Information Services Officer of the Cadet Wing. He has a staff of two cadets to assist him. The publication of the CADET is coordinated with the Information Services Officer of the Detachment, presently Captain Floyd Wood, USAF.

THE ORBIT

The ORBIT is the magazine of the undergraduate students of Newark College of Engineering. Among its contents are professional and technical articles, stories, and poems submitted by the students and faculty.

The ORBIT was created in 1957 with the objectives of publishing a college literary magazine addressed to the general reader, of expressing student opinion and thought, of promoting scholarship and leadership, and of supporting the traditions of the college.
REACTIONS

Reactions, the Chemical Department student newspaper, features articles concerning developments in the chemical field, student activities and biographical sketches of the faculty.

THE SAMARITAN

The SAMARITAN is the official publication of the student chapter of the Society for Advancement of Management. It contains general news, class columns, faculty sketches, and articles of general interest. It is the objective of the SAMARITAN to provide a closer Management Department.
STEAM LINES

Steam Lines is both the literary journal and the communications network of the American Society of Mechanical Engineers. Its main function is to publicize meetings, movies, speakers, and conventions. With a consistently large membership, the publication enjoys a wide circulation.

SURVEYOR

The Surveyor is published by the student chapter of the American Society of Civil Engineers. It contains articles on chapter meetings, field trips, social affairs, and other activities of interest to the Civil Engineering students of NCE.
LUBS
The Interclub Council is the official representative of all the clubs in school. With almost twenty clubs under its jurisdiction, the Interclub Council forms an important part in programming various school events. Through careful planning and scheduling, the organizations have been able to hold their meetings and outings with a minimum of interference between club meetings.
The Audio Club was founded on March 29, 1957. Its main objectives are to increase the satisfaction of its members in the hobby of audio, to encourage technical appreciation of sound reproduction, and to promote activities in the audio field. Its activities in the past have consisted of demonstrations of high fidelity equipment, lectures by people affiliated with sound reproduction, and field trips to the laboratories of audio equipment manufacturers. The club attempts to provide a program of interest not only to the more technically-minded audiophile, but also to the musically-minded layman.

Alpha Phi Omega, the service fraternity, has really lived up to its name. Its varied activities include ushering at the Kampus Kapers' productions and the Newark Science Fair, maintaining the APO book exchange, and procuring of information and tickets for the Broadway shows, concerts, and television shows. The service that APO has given to the college and the students is immeasurable.
CHESS CLUB

With an instinct for analytical subjects, the engineer is attracted to the game of chess. Some players actually consider their game from a standpoint of potential energy of each piece. In addition to the games between members, the club has played matches with other colleges and teams from industry.

AMERICAN ROCKET SOCIETY

The student chapter, formed in 1957, through its affiliation with other metropolitan chapters participates in astronautics expositions, field trips to local businesses involved in Rocket Engineering, and lectures to advance student knowledge of rocketry.

Some of the members are now engaged in the construction of a two-stage rocket. This rocket will be used as part of a display during the college's Seventy-Fifth Anniversary celebration.
CHRISTIAN FELLOWSHIP

The Christian Fellowship is the club which actively participates in the program of Bible study, prayer, and fellowship of the members. The club is dedicated to the truth of God's word, the Bible. The group is affiliated with the Intra-Varsity Fellowship, an organization having chapters in over five hundred colleges in the United States and in foreign countries.

NEWMAN CLUB

The Newman Club is a Catholic group that fosters the spiritual, intellectual, and social interests of all students. The club, very active at the college, is a member of the National Newman Club Federation and of the North New Jersey Province of Newman Clubs. Its members attend Mass and receive Holy Communion every Friday morning during the school year. The Annual Newman Club Dance is held at the beginning of the fall semester, and the Annual Newman Club Communion Breakfast at the beginning of the spring semester.
DANCE CLUB

In 1949, Professor Swanson received a request for dancing lessons from several students of the college. Through the efforts of Professor Swanson the dance instructions were developed into a weekly dance for the student body.

One of the basic objectives of the Dance Club is to orientate the student socially in the same way that the academic curriculum orientates him scholastically. In keeping with these social needs, the Dance Club maintains periodic instruction in the art of dancing.

YACHT CLUB

The Yacht Club was formed for the purpose of enabling interested students to learn to sail and as a basis for the establishment of a yacht racing team. Three years ago the club acquired a "Barnegat Sneak Box" Class sailboat, and during the intervening summers club members have gained much experience in the art of sailing. Next season the club hopes to possess a boat similar to the type used in intercollegiate racing, which will be used to train crews for intercollegiate competition in future years.
GLEE CLUB

K ampus Kapers, the college theatrical group, is responsible for the plays that are produced each year. Last year, the club presented "For Love or Money," which was very successful. This year the club will present another comedy. The purpose of the club is to give students experience in lighting, directing, acting and scene study. The club is open to all students.

KAMPUS KAPERS

Once again the Glee Club was active on the college scene. Much to his surprise, Professor Fernsler found his call for volunteers answered by enough men to warrant developing a program. A crash program was immediately undertaken which was climaxed by the concert at the Christmas Convocation. Where polish was lacking, enthusiasm was found, and the concert was a success. Presently, new programs are being developed with an eye to spring concerts.
MATH CLUB

The purpose of the Math Club is to provide the members with a greater knowledge of the practical side of mathematics. Its origin, its development, and the role it plays in our present-day civilization by this goal are accomplished by bringing in outside speakers from industry and by projects undertaken by the members. Although only a few years old the Math Club is gaining in popularity under the guiding hand of Professor Barken.

MOTOR CLUB

The Motor Club is the meeting place of NCE automobile enthusiasts. The club affords the student an opportunity to learn about trends in automobiles. A prime function of the club is the annual rallies. They test the driver's ability to travel courses that are unknown to him and stay within the limits prescribed for the run.
The Radio Club is the haven of the amateur radio operator. The club has been active as the membership has grown to include students from all classes. One of the outstanding jobs done by the club is the tutoring of members who wish to apply for their operator’s license.
The Rod and Gun Club was organized to conserve game, fish and other wild life. The organization has been instrumental in spreading knowledge of the outdoors to the students at NCE. The highlight of the calendar year is the annual Venison Dinner. The dinner has brought fond memories to the hearts of all who attended.

The Ski Club was organized to promote skiing activities among the students and to foster close personal relations between the members. The club has taken many treks to the slopes of New York and Vermont.
SOCIETIES

TAU BETA PI • OMICRON DELTA KAPPA • CHI EPSILON • ETA KAPPA NU • OMEGA EPSILON • PI PAPA • PI TAU SIGMA • PHI ETA SIGMA • ALPHA PSI OMEGA • ARNOLD AIR • PI DELTA EPSILON • OMEGA CHI EPSILON
The HSC was formed at NCE six years ago. It is an organization which coordinates and represents the interests of all the honor and recognition societies on campus.

The council sponsors a dinner each semester, during which all recent initiates in the various societies are introduced. A prominent speaker addresses the gathering.

Composed of a representative from each individual society and four elected officers from the various societies, the HSC has made great strides toward establishing a central unit for NCE's honor and recognition societies.
Tau Beta Pi, the National Engineering Honor Society, recognizes those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character or by attainments as alumni. The activities of Tau Beta Pi include a tutoring program, a faculty evaluation program, the presentation of an award to the student displaying an outstanding project at the Newark Science Fair, the presentation of nontechnical publications to the school library, social functions, the High School Visitation Program, and publicity for the chapter and school.
Omicron Delta Kappa, the national leadership honor society for men, was founded in 1914 at Washington and Lee University.

The purpose of the Omicron Delta Kappa Society is three-fold: first, to recognize men who have attained a high efficiency in collegiate activities and to inspire others to strive for attainments along similar lines; second, to bring together the most representative men in all phases of collegiate life and thus to create an organization which will help to mold the sentiment of the institution on questions of local and intercollegiate interest; third, to bring together members of the faculty and student body on a basis of mutual interest and understanding.

The Newark circle of ODK received its charter in 1950. Since then it has striven to fulfill the aims of the parent society.
Chi Epsilon is the national Civil Engineering Honor Fraternity. The objectives of the fraternity are to recognize and develop the qualities of the successful engineer in civil engineering students. The fraternity offers free tutoring services to students in the Civil Engineering Department and to students in other departments who are preparing for the Professional Engineer examinations.
The two main purposes of Eta Kappa Nu, the National Electrical Engineering Honor Society, are to assist its members through their lives in becoming better men in their chosen profession and better citizens. The society also encourages its membership to be a constructive force, helping fellow members and nonmembers in improving the standards of the profession, the courses of instruction, and the institutions where its chapters are established. The activities include a tutoring service and the sponsorship of the Junior Orientation Program for the Electrical Engineering Department.
Eta Chapter of Omega Chi Epsilon, a relatively new organization at the College, was established in 1957. Its main objective is to recognize and promote high scholarship, professional ethics, and original research in all fields of Chemical Engineering. Throughout the course of the year, the members maintain a tutoring service for juniors and seniors as well as perform various services for the Department of Chemical Engineering. Outstanding juniors and seniors, as well as graduate students, are eligible for membership by election.

OMEGA CHI EPSILON

Outstanding juniors and seniors, as well as graduate students, are eligible for membership by election.
Formally installed on May 25, 1951, Newark Tau Theta Chapter of Pi Tau Sigma, the National Honorary Mechanical Engineering Society, is actively participating with the Mechanical Engineering Department in forwarding the ideals of the profession. The Chapter's activities include: a tutoring service, departmental aid through useful pledge projects, investigation and nomination of outstanding graduates for society awards, completion of a roster file of all graduates, and participation in the High School Visitation Program.
Phi Eta Sigma, the National Freshman Engineering Honor Society, is the only Junior Division honorary group in the College. To be considered for membership a man must have at least a 3.50 grade point average in his freshman year and character qualifications.

The principal activities of the organization are tutoring freshmen and assisting in freshman orientation.
Phi Theta Chapter of Alpha Psi Omega was established on campus in 1955. The fraternity is a national honorary organization recognizing outstanding work in college dramatics. The function of this organization is to coordinate and direct theatrical entertainments. Members are elected on the basis of acting, directing, staging and lighting, business, properties and production. The society not only works with Kampus Kapers at school, but has joined with casts in other schools in New Jersey to sponsor intercollegiate dramatic programs.
The Arnold Air Society is a professional honorary service organization of the AFROTC cadets. The objectives of the society are to promote American citizenship, to advance the support of airpower, and to create a closer and more efficient relationship within the Air Force Reserve Officers Training Corp.

The Highlander Squadron of the Society located at college sponsors the Military Ball.
Pi Delta Epsilon, established locally in 1951, is the honorary collegiate journalism fraternity. Acting in an advisory capacity, the society stands ready to assist any organization which requests aid for its publications. Students who have served two years on any publication are eligible for membership.
PROFESSIONAL SOCIETIES
"Coordination" and "cooperation" are the key words when one is describing the Professional Societies Council. Composed of the presidents of the different professional societies on campus, the group directs its efforts toward the professional development of the individual student members. Occasionally the Council will combine its efforts to sponsor a meeting at which an important speaker will discuss a topic of interest to all students. The Council also has a seat on the Student Council.
The American Chemical Society is a professional society originally founded for chemical engineers and chemists. The local chapter is a member of the national council and is affiliated with the Intercollegiate Council, which represents nine northern New Jersey colleges and universities.

The main purpose of the society is the acceptance of responsibility in the development of the professional man.

The American Institute of Chemical Engineers was established at Newark College of Engineering during the 1930's. The principal function of the local chapter is to promote professional communication between the metropolitan student members and members of the society in industry. Activities include plant trips, lectures, and movies of interest to students.
The Institute of Radio Engineers was organized in 1912. Its objects are scientific, literary, and educational. Its aims include the advancement of the theory and practice of radio, and allied branches of engineering and of the related arts and sciences, their application to human needs, and the maintenance of a high professional standing among its members. Among the means to this end are the holding of meetings for the reading and discussion of professional papers and the publication of papers, discussions, communications, and such other matters as may be appropriate for the fulfillment of its objects.

The purpose of the American Institute of Electrical Engineers is to broaden the scope of the electrical engineering student; this is accomplished by acquainting the student with all the fields of the profession by means of outside speakers and by tours of industrial plants and research laboratories.

Benefits of student membership include the following: the use of the Engineering Societies Library and its services, a subscription to "Electrical Engineering" magazine, and an opportunity to become an associate member upon graduation.
The aim of the student chapter of the American Society of Mechanical Engineers is to promote the activities of both the chapter and the parent organization in order to broaden the knowledge of the future engineer. The activities of the local chapter are numerous and diversified. Included are lectures, field trips, and the annual spring intercollegiate meeting.

The Society for Advancement of Management, the recognized professional society for industrial engineers and managers, offers students pertinent information on the general topics of these fields and also presents opportunities for them to become acquainted with people and practices in industry through meetings and plant trips. The highlight of this year's activities for the chapter was the annual meeting of the Senior Chapter at the Hotel Suburban in East Orange. Meetings such as this offer the student a close personal contact with professional people already in the field.
The Newark College of Engineering Chapter has been established to help prepare civil engineering students for entry into the profession. The society supplements civil engineering courses by helping the student to make professional contacts and associations which will be valuable to him as a practicing engineer.

The Society activities are planned to include speakers on professional engineering subjects, technical papers presented by students, and many social activities.
The Intrafraternity Council was formed to broaden the educational and social activities of the fraternities and to provide a liason between the fraternities, the independents, and the administration. Much time is spent defining more clearly standards for the fraternities at the college.

The activities of the Intrafraternity Council include varied sports programs and the annual IFC dance.
The fraternity, founded in 1954, is composed of veterans of our armed forces. In fact, the only requirement for membership is that the man be a veteran.

The fraternity holds meetings once a month and sponsors various social functions during the college year. The membership is composed of approximately seventy fraters who participate actively in these affairs.

Perhaps the best description of this organization would be the remark once made by a visitor at one of the fraternity socials: "It looks as if you have a membership based on friendship among guys who have shared a common experience."
The Beta Xi Chapter of Alpha Phi Delta has always had a full social schedule to offer as an outlet for its members. The Annual Dinner Dance, the Pledge Smoker, the Christmas Dance, the Barn Dance, the Halloween Party, and the Fall Hayride were the usual successes which highlighted the fall semester.

In the service of the community, Alpha Phi Delta had its Christmas Orphan's Party and the Annual Easter Party with proceeds being donated to a local charity. The strong ties of fraternalism, coupled with capable leadership, will see Alpha Phi Delta play a prominent role in the activities of NCE.
Beta Alpha, the local chapter of Pi Kappa Phi, one of the largest national social fraternities, is in its twelfth year of national affiliation and has developed a strong undergraduate and alumni organization. The chapter’s purpose is to establish local brotherhood among men of similar interests and to improve their academic and social well-being through group associations and action. Major social activities are the Rose Ball, a Christmas party for orphans, a Founders’ Day Dinner, a Halloween party, a hayride, a New Year’s party, and a picnic.
Alpha Mu Chapter is the representative of Sigma Pi fraternity on campus. Guided by the ideals of scholarship, chivalry, and character, Sigma Pi was voted the "outstanding fraternity" in 1959.

Highlights of the social season include the annual Founders' Day Banquet, Spring Dance and formal Orchid Ball, while parties are held at Halloween, Christmas and New Year's. The fraternity also holds a Christmas party for underprivileged children and donates the profits from the annual "Car Wash" to various public organizations.
The thirteenth year of Tau Epsilon Chapter was anything but unlucky. Socially, athletically, and scholastically, the year was highly successful. Three pledge parties, Halloween, Thanksgiving, Christmas, and New Year's Parties, in addition to smokers, Bohemian Night, An Evening in Japan, and a Beach Party at Seaside Heights marked the social success. Scholastic attainment was reflected in the winning of the Interfraternity Best Pledge Award and high positions in numerous honor and professional societies. Athletic success was achieved through participation in interfraternity bowling, basketball, football, and softball competition.
TAU EPSILON PHI

Tau Epsilon Phi has the tripartite goal of achieving the ideals of friendship, service, and chivalry in its members. The continually increasing membership is due to the active participation of the brotherhood in interfraternity activities.

Socially, Tau Psi Chapter attempts to hold one event each month, including parties, picnics, and the semi-annual installation.
Phi Beta Tau’s goals this year were to enhance the reputation of the fraternity and to increase its membership. Through the brother’s active participation in student government, sports, and college activities, Phi Beta Tau is gaining recognition as being one of the most active fraternities on the campus. This year some of the brothers received national recognition for outstanding contributions to their college.
SPORTS

PHYSICAL EDUCATION  •  CHEERLEADERS  •  BASKETBALL  •  BASEBALL  •  SOCCER  •  BOWLING  •  FENCING  •  TENNIS  •  INTRAMURALS
Approximately five hundred students participate in the varied intramural sports program at NCE. Badminton, bowling, basketball, softball, and volleyball teams, in addition to the ping-pong addicts compete enthusiastically throughout the school year.

Under the able direction of Professor Robert Swanson, the Student Activities Office handles the mountainous task of forming, scheduling, and recording intramural sports activities. The program provides a welcome opportunity to relax from the tedium of class work.

The eight varsity and five intramural teams of NCE's athletic program are administered by the Athletic Association's elected officers. Funds for the operation of all teams are received from the Student Council. The administration, purchasing and maintenance work of the various phases of all athletics are handled by the Association whose capable job is reflected by the large number of participants in the program.
The year 1959 marked the finest year for NCE's booters since the sport's inception. Under the guidance of Coach Mal Simon, the Soccer Team compiled a 6-3 log, with two of the losses coming on the same bleak November day.

By scoring impressive victories over Paterson State, Seton Hall, Trenton State, Rider, Drew, and Philadelphia Textile, while losing one tilt to Fairleigh Dickinson, the team was invited to the National Intercollegiate Athletic Association district play-off. Pratt Institute turned back the Highlanders in the play-off before the Stevens game, 5-2. Stevens downed the tired booters in the afternoon encounter, 2-1 to close out the season.

Seniors Roland Barth, Lou DeVito, and Andy Brown, who played key roles in the team's success, in addition to Harry Luettchau and Ralph Penevolpe, will be missed by Coach Simon. Barth for the second straight year, and DeVito, for the fourth consecutive year, were named to the Regional All-Star Team. Brown established a school career standard of 32 goals. The JV squad, which compiled a 4-1-1 record, should take up part of the slack left by the graduation of these fine players.
RIFLE TEAM

The rifle enthusiasts at NCE enjoyed participation in the Rifle Club and in a complete schedule of intercollegiate matches with metropolitan schools. The matches were held both at home and away under the auspices of the Metropolitan Rifle League. Seniors George Matta and Herb Schlesinger helped guide the squad to a highly successful year.

BOWLING

The NCE bowling team represents the college in the Eastern Intercollegiate Bowling Conference. The five-man team average of 900 is bolstered by the pinwork of Gerry Schomberg and seniors Jack Strenkowski, Arnie Meyer, and Captain Bob Goodman. Strenkowski's 185 average ranks among the top ten in the league. As the yearbook goes to press, the team is in second place only a whisker behind the league leader with high hopes of capturing the crown. NCE can certainly be proud of its spirited and capable keglers.
Success seems to be synonymous with the NCE fencing team. Combining able coaching by Prof. Paul Hausser, excellent team spirit and unusual skill, the swordsmen perenially compiled excellent season’s records and tournament scores.

The 1959-60 edition of the fencing squad, led by Captain Lou DeVito, opened the season with a victory skein of eight. Possessing excellent team strength, particularly in épée and foil, the fencers seemed destined to complete the schedule in fine style with impressive showings in the North Atlantic Tournament and NCE Invitation Tourney.

The fencers have proved very poor hosts for the Invitational Tournament in the past, and are likely to be unsociable again this year. From 1949 through 1955 the NCE Invitational Trophy did not leave NCE, for the Highlanders won the title every year. The trophy did leave these portals in 1956, but returned in 1957 and 1958. For a second time the trophy departed in 1959, but all indications seem to point to a return of the trophy this year.

The key men on this powerful squad, which has lost but five matches in four years of dual competition, are DeVito, Pete Van Splinter, and Lou Giordano in foil, Phil Bloom in saber, and Alan Perry, Demetri Durbak, and Roland Barth in épée. All except Durbak are seniors, and the team faces a major rebuilding job if it is to match the performances of its predecessors.
Twelve peppy cheerleaders spirited the varsity basketball team throughout its fourteen game schedule. Their vigor and loyalty gave the team the incentive to "go, fight, win!"

The squad, led by co-captains Maureen Cronin and Carol Rose, consisted of Jacqueline Kane, Pat Minella, Fran Callanan, Leona Balkenende, Eileen Middelstaedt, Edith Jeffrey, Virginia Thomas, Regina Raisch, Irene Abar, and Hedy Kozimor.
The 1959-60 Highlander basketball squad finished the year slightly below the .500 mark. Plagued by scholastic difficulties which barred the return of the squad's backcourt combo and faced with a tough schedule of only five home encounters, Coach Fred Bauder searched continually for the winning combination.

Seniors Joe Kulpinsky and Leon Schumacher anchored the cagers' squad, which was composed primarily of sophomores. With a season of competition under its belt, the Big Red's hoop fortunes should improve in the near future.
The Tennis Team is primed for a successful 1960 campaign. Bolstered by the return of many lettermen from last year’s squad, which more than held their own against tough intercollegiate competition, prospects are bright.

Seniors Russell Brown, Sandy Schram, and Don DiMassimo, who share the captainship of the squad, are potent threats in the singles matches. Brown and Schram combine their talents as the number one doubles tandem, also. With favorable weather conditions, the Tennis Team should be able to start the season in fine fashion and sweep the major portion of their nine game schedule, with a possible triumph over arch-rival Stevens.
The baseball team opened the season on April 4 with high hopes of improving upon last year’s 3-5 record. With a large number of returning veterans, the squad hoped to get off to a flying start with a repeat performance of last year’s stunning upset of powerful Paterson State.

The tentative starting battery consisted of ace lefty Ed Preztak or righty hurler Bruce Shepherd with Irv Liss behind the mask. The infield included Ray McEntee at first, Wiley Archer, Fran Keating, and versatile Jim Murray. Harold Stiskin, Joe Kulpinsky, and Bob Taylor were in line for starting outfield posts.
INTRAMURALS
To the Class of 1960

Because you are graduating at a time when Newark College of Engineering is celebrating its 75th Anniversary of service to the State and nation, you are the 75th Anniversary Class.
As such, you are a rather special group, and, we hope, will always have a special feeling for the College as you and NCE continue to grow together throughout the years that are to come.

They will be years of major growth for the College, whose rising prestige will be reflected both within NCE itself and by what you yourselves do in your own careers.

They will also see a great and corresponding growth in the activities of the NCE Alumni Association whose ranks you now are joining.

It is the hope of the College administration and the officers of the Alumni Association alike that every one of you will always maintain close touch with NCE and, to the extent you can, participate actively in its future.
When our 100th Anniversary rolls around, you will be the senior members of a very much larger alumni body than now exists, and of a much stronger one because of your contributions to it.

Good luck to the special Class of '60.
For seventy-five years the institution which is now Newark College of Engineering has provided the best possible education for aspiring engineers.

Personal testimonies and statistical reports prove that NTS and NCE have laid down a firm foundation in the disciplines and basic concepts needed for an engineering career.

The sense of values inculcated in your student days will serve you in every phase of your life. This will become increasingly evident, and you will want to say “thanks.”

You can start showing gratitude right away by participating in the Alumni Association and by keeping in touch with classmates, friends, and members of the faculty. You can become a member in good standing by paying dues and contributing to the special funds. There are numerous committees working on various projects which need more manpower. And you can keep up-to-date on the whereabouts of other alumni by checking the files in the Alumni Office.

Your activity as an alumnus is a way of saying “thank you” for a first-rate education. Let’s count you in!

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**K**

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