

log nce

1953-1954



NEWARK COLLEGE OF ENGINEERING

log nce

1953-1954

EDITOR:

Robert S. Hattersley '53

ASSOCIATE EDITOR:

James F. Campbell, Jr., '53

EDITOR 1954 - 1955:

Edward P. Percarpio '55

FACULTY ADVISERS:

Professor H. A. Estrin

Richard D. Blanchard

This handbook has been written by members of Pi Delta Epsilon, the national honorary collegiate journalism fraternity, as a service to the students of N.C.E.

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GREETINGS FROM THE PRESIDENT

It is my very pleasant privilege to welcome you to Newark College of Engineering as you begin your study for the profession of engineering. In doing so, I speak for all of the Newark College of Engineering staff and, yes, even the maintenance staff. We are all here for the sole purpose of helping you reach your educational objective of becoming a professional engineer.

This will be a new experience for you. Your high school and preparatory school days are behind you, and you will find fresh opportunities and challenges in the years ahead. There will be the opportunity to make friends and to participate in athletic, social, and professional activities. Your studies will challenge your ability; frankly, engineering is not a "snap" course. It calls for hard, serious work, but there is no reason that we can determine at this time why you should not succeed. You are members of a selected group. Your principals' or teachers' recommendations, your secondary school records and/or your entrance examination scores have all indicated that you have the ability to succeed. Now the responsibility to succeed is yours.

The relationship between your instructors and professors and yourself is similar to that existing between professional consulting engineers and their clients. Each teacher is here to help you and to give you the benefit of his experience so that you may attain your educational goal. To this experience you must add the will to work, for without that will you cannot complete your education and win your degree.

I trust that each one of you will accept the challenges and the opportunities and make the most of the educational opportunity which has been provided for you. In conclusion, let me again assure you of the desire of every one of us to help you in every way possible.



President

GREETINGS FROM THE DEAN

Much blood, sweat, and tears have gone into the making of this student handbook. The members of Pi Delta Epsilon deserve credit for a good job well done. Their reward will be your full use of the result of their efforts.

Study the handbook so that you may know your college better. Learn to associate the facts set forth in it with your physical surroundings; your stay at N.C.E. will be enriched by a knowledge of what makes us tick.

The student organizations described herein are alive and functioning. Your interest and cooperation will keep them that way. Participate in those for which you have an aptitude. Lacking that, join in anyway. You all have talents which can be used, but they'll never be discovered if you have a "that's not for me attitude." Remember, it's a two-sided proposition—you gain the experience which extra-curricular activities give; without you they will cease to exist.

Speaking personally, the Office of the Dean of Students is at your service. To us the answers are not so obvious that the questions should not be asked. If we don't know, we'll try to find out. You're welcome to come in and discuss things before they get to be problems, but if they are already problems, be sure to come. We haven't won any prizes for giving advice to the lovelorn, but it will help you to get what's bothering you off your chest even if we only listen.

Sincerely,



Dean of Students

LOOKING AHEAD

You are a freshman again.

After all the glory of being a high school senior, you are a freshman again.

But you have something which no one else in the college has. You have new ideas, new thoughts. You bring with you new faces, new names, and new experiences. You are progress, and we respect you for it.

Soon you will be well indoctrinated into the NCE way of doing things. Soon you will see exactly what lies ahead of you—four long years of hard work, four long years of classes and quizzes, homework, and reports. Many times you will stay up very late to study and work. But the four long years are also good years. They are also four years of friends you will never forget and fun you will always remember. Four of the best years of your life: make the best of them.

You will only get out of NCE what you put into it. If you go home every night and forget all about college except the homework, your four years will not be good years. If, on the other hand, you think college and live college for four years, you will receive the full benefit of your education and have four good, happy years. Get into things. Do things. Not only what is required in the way of work, but extra things. If you like sports, go out for them. If you have interests, develop them by joining a club. If you think you might be interested in something, try it out. If you would like to write, try the TECHNICALIAN. Believe it or not, you will have the time to do your work and lots of other things besides. Make your four years the good four years—meet many people—get into things.

Your extracurricular activities will be a source of great satisfaction and pleasure as you go through school. But, more important than this, they will also benefit you in many intangible ways.

So, freshman, the students of Newark College of Engineering sincerely welcome you into our family. We want to see you make a success of your education, but we also want to see you enjoy yourself at the same time. Take our advice and you will never be sorry.

Robert Hattersley, *Editor*

YOUR FELLOW STUDENTS

When you start classes at NCE, you will find yourself one of a body of more than 3,400 day and night students. They are as varied a lot as you have ever come up against; so let's take a look at them and see how they shape up.

NCE's students come from all over the world. Although most of them are local Jerseyites, we do have some students from our neighbors—Pennsylvania, New York, and Connecticut—and a few foreign countries. You will find among your classmates men from Sussex County farms, New York's East Side, and Newark's suburbs. Some are youths fresh from high school; some have fought in Korea; some have college degrees already behind them; and some have, after a few years' work in industry, decided to get more education. While backgrounds may vary, there are common denominators of similar interests, of intellectual capacity, and of mutual self-reliance. The NCE student body is one of the most highly selected groups of young people to be found anywhere.

One of the richest rewards of college life is the opportunity to make new and lasting friendships. It may seem like a long time before you become an alumnus. It won't be. When that time comes, some of the friends you make now will last because they are based on the common experiences and mutual interests which you have had here at NCE. Don't underrate the importance of that aspect of life ahead of you. Build up those experiences now; search out others whose interests parallel your own; take every advantage of the opportunity to make friendships that you will treasure for life.

YOUR COLLEGE

**Your Directory of Administration
and Faculty Officers**

TITLE	NAME	ROOM No.
President	Robert W. Van Houten	20E
Air Science and Tactics, <i>Chairman</i>	Lt. Col. Leonard R. Einstein	27E
<i>Executive Associate</i>	Maj. Michael A. Barry	27E
Alumni Secretary	Roger Hull	39E
Cafeteria Supervisor	Margaret B. Weiher	15E
Chemical Engineering, <i>Chairman</i>	Charles M. Mantell	428L
<i>Executive Associate</i>	George C. Keeffe	428L
Chemistry, <i>Chairman</i>	M. Lelyn Branin	434L
<i>Executive Associate</i>	Thomas J. Tully	434L
Civil Engineering, <i>Chairman</i>	William S. LaLonde, Jr.	202C
<i>Executive Associate</i>	James M. Robbins	202C
Controller	J. Wilson Pennington	23E
Dean of Administration	William Hazell, Jr.	28E
Dean of Students, Director of Admissions	Frank A. Grammer	15W
<i>Assistant to Dean</i> <i>of Students</i>	Robert K. Haubner	15W
Director of Public Relations	Richard D. Blanchard	39E
Electrical Engineering, <i>Chairman</i>	Harry S. Dixon	226L
<i>Executive Associate</i>	Frederick A. Russell	226L
Engineer in Charge of Maintenance	Russell F. Lewis	36E

Engineering Drawing, <i>Acting Chairman</i>	Francis J. Burns	410C
<i>Executive Associate</i>	Rudolph J. Klem	410C
English, <i>Chairman</i>	James H. Pitman	15W
<i>Executive Associate</i>	Herman A. Estrin	15W
Graduate Division, <i>Chairman</i>	Irving P. Orens	344L
Industrial Relations, Special Courses, <i>Director</i>	Clarence H. Stephans	16E
<i>Associate Director,</i> <i>and Assistant Director of</i> <i>Evening Sessions,</i>	David H. Mangnall	18E
Librarian	Ira A. Tumbleson	
Management & Personnel, <i>Chairman</i>	Allan R. Cullimore	20W
<i>Executive Associate</i>	Oliver J. Sizelove	322L
Mathematics, <i>Chairman</i>	George C. Vedova	27E
<i>Executive Associate</i>	Pompey Mainardi	27E
Mechanical Engineering, <i>Chairman</i>	George B. Thom	328L
<i>Executive Associate</i>	Jerome L. Polaner	328L
Physics, <i>Chairman</i>	Paul O. Hoffman	342L
<i>Executive Associate</i>	Achille Capecelatro	342L
Recorder	E. Alice Hickey	14W
Student Aid, <i>Director</i>	Charles J. Kiernan	21E
Testing & Guidance <i>Director</i>	Frank N. Entwisle	37E
Veterans' Coordinator	Frank H. Lewis	37E

All communications to the Administration should be addressed to the Dean of Administration, William Hazell, Jr.

All communications to the Faculty should be addressed to the Secretary of the Faculty, Professor Warren H. Crater.

Its Buildings

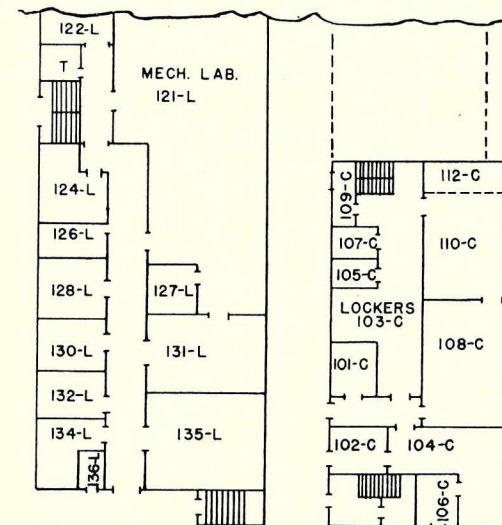
Newark College of Engineering began as the Newark Technical School in 1885; its first building was at 21 West Park Street. The Newark Technical School offered evening training in drawing, mathematics, physics, and chemistry. The Technical School was a supplement to the day-by-day training that technicians received in industry.

In 1912 a day course in engineering was discussed, and in 1919 the first day class was graduated with the degree of Bachelor of Science. By the middle twenties an evening course leading to a Bachelor of Science degree had been initiated.

From its original building on West Park Street, Newark College of Engineering now has six buildings along High Street, Summit Street, Summit Place, and Bleeker Street. In Weston Hall, a High Street landmark, you will find the Weston Museum, the College Library, and the Bookstore.

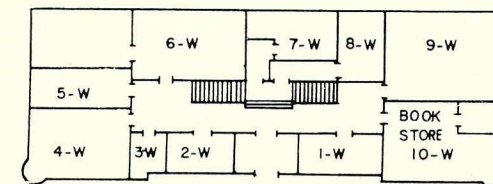
The Laboratory Building, constructed in 1913, has an addition completed in 1947. Campbell Hall and its five-story annex were completed in 1939.

In Eberhardt Hall, the administration building, you may eat in NCE's excellent cafeteria.

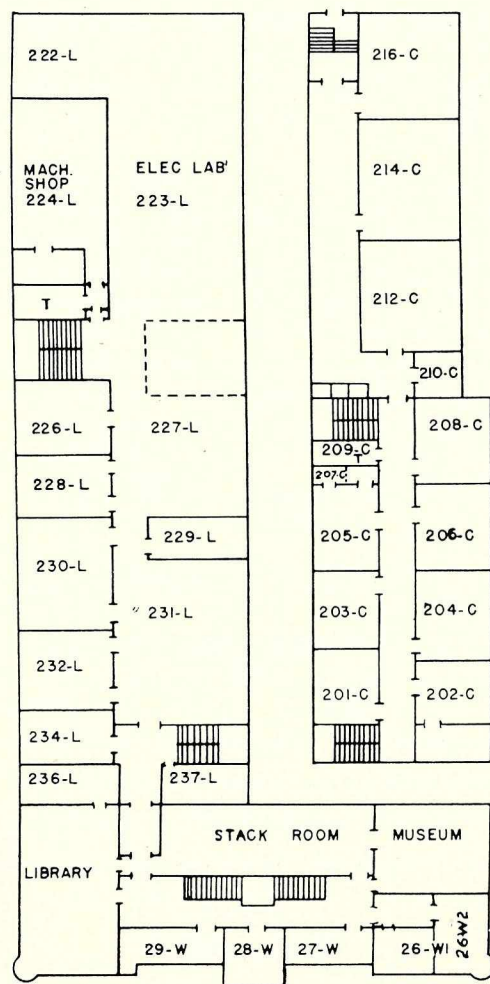


WESTON, LABORATORY BLDG., CAMPBELL HALL — 1ST FLOOR PLAN

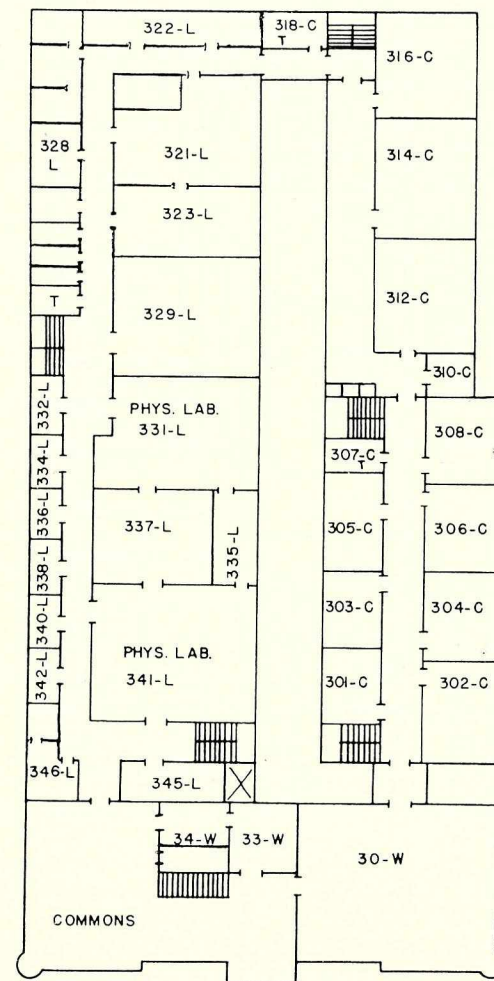
(W—WESTON L—LABORATORY C—CAMPBELL)



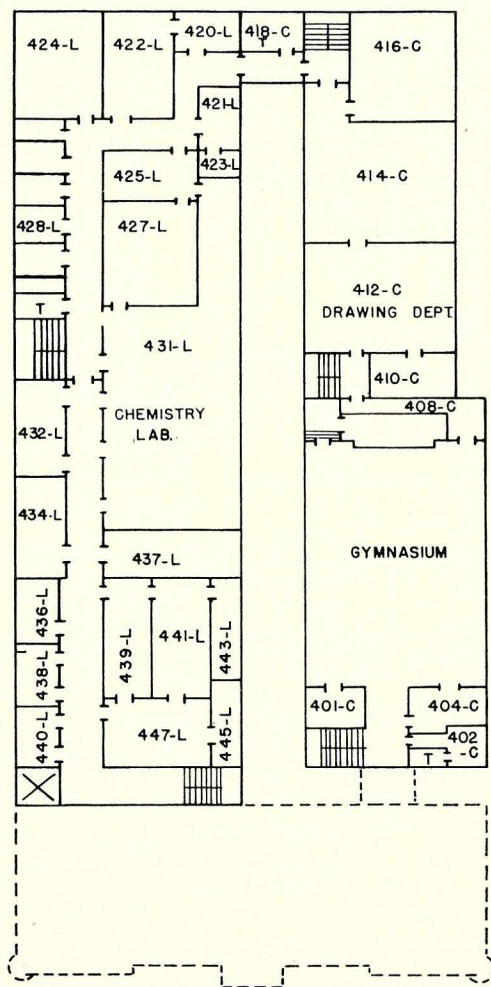
WESTON HALL BASEMENT



WESTON, LABORATORY BLDG., CAMPBELL HALL - 2ND FLOOR PLAN

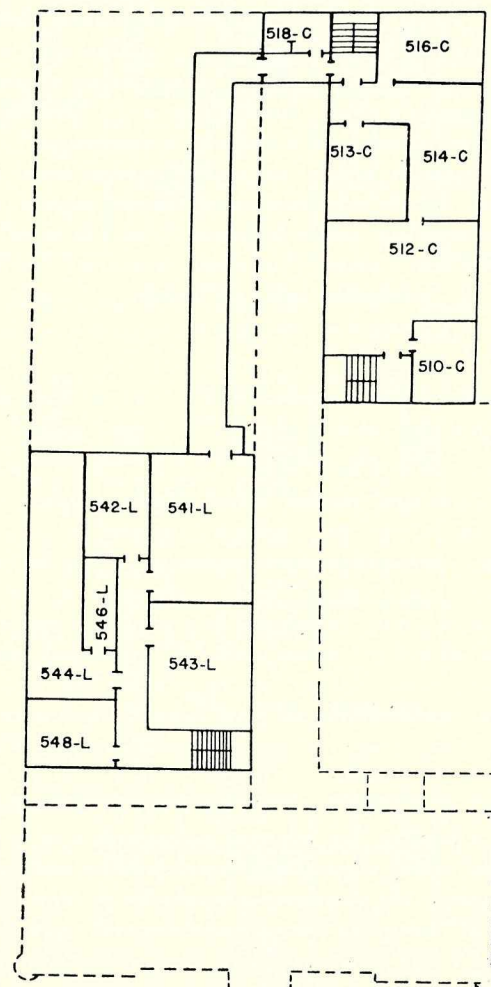


WESTON, LABORATORY BLDG., CAMPBELL HALL - 3RD FLOOR PLAN
(W-WESTON L-LABORATORY C-CAMPBELL)



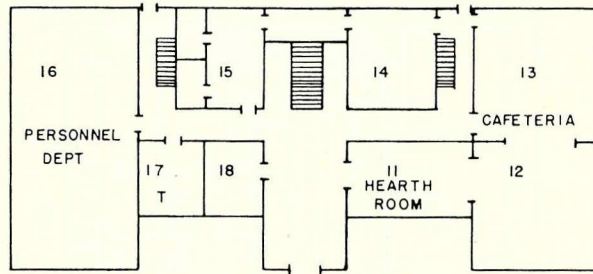
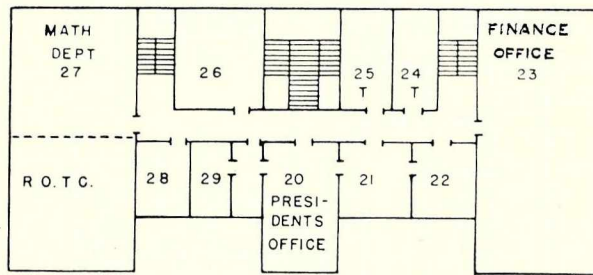
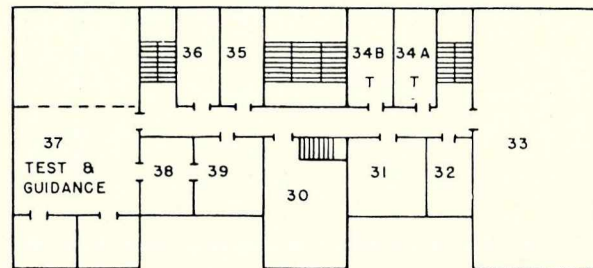
LABORATORY BLDG., CAMPBELL HALL—4TH FLOOR PLAN

(L—LABORATORY C—CAMPBELL)



LABORATORY BLDG., CAMPBELL HALL—5TH FLOOR PLAN

(L—LABORATORY C—CAMPBELL)

EBERHARDT HALL 1ST FLOOREBERHARDT HALL 2ND FLOOREBERHARDT HALL 3RD FLOOR

Its Aims and Objectives

The philosophy of your college is simple and involves training along scientific, technological, and humanistic lines those young men and women who have interest and ability irrespective of financial situation. Your college is in effect a community project. As a result, there has been developed here an institution which enjoys a well-earned reputation for academic excellence. It has conceived that its function lies in the development of sound, well-trained engineers and citizens at the lowest cost consistent with high technological quality.

The factors involving this democratic education available to young men and women of capacity are the simple American concepts of:

1. Character
2. Initiative
3. Hard work
4. Understanding human relations
5. A knowledge of fundamentals of applied science

Your college maintains close contact with industry in the area and passes on to you the important and fundamental objectives of the industries and their attitudes toward modern engineering techniques. This is accomplished by lecturers from industry, by the Honors Option program and placement service which arranges to have qualified students placed in plants during their summer vacations for practical experience, and by the use of professors and instructors who, in addition to their academic background, have extensive professional experience.

Its Emblem, Colors, and Nickname

Your college emblem features a sketch of Weston Hall circled by the words "Newark College of Engineering." The colors of red and white can be seen on all college pennants and accessories as well as on varsity uniforms. The nickname of your college is "The Highlanders."

A new college seal is now being introduced, which shows symbols of the four branches of engineering, with the date "1881," the year of organization of Newark Technical School, predecessor of today's Newark College of Engineering.

Its Public Relations

The Public Relations Office is the promotion and production department of your college.

Its first job is to publicize the work of all the departments of NCE in making engineering the great profession it is.

Its second job is to carry out the functions of the production department in a company: printing catalogs, forms, booklets, and flyers; mimeographing manuals, notices, and record sheets; folding and addressing; and handling the innumerable other details, large and small, that go to make any organization run smoothly.

Whenever your college is in contact with the outside world, your Public Relations Office is usually concerned. The girl at the switchboard, who represents your college to everyone who telephones, is a public relations worker. So is the professor who is asked to speak at a P.T.A. or Rotary Club meeting. Connected with it too are the men and methods on the outside that get releases printed and the news disseminated in papers and magazines, on the radio, and on television.

More than anything else, the Public Relations Office is interested in you—in the work you are doing, the organizations you join, the degree you receive, the job you take, the children you have, and the career you develop.

Each time that you register, you are asked to fill out an information card expressly for public relations use. The story that you have been accepted at NCE is sent to your home town paper. When you join a fraternity, get elected to an honorary society, make the basketball team, or in any other way distinguish yourself, Public Relations again tries to get the news to the people who know you or know of you, as well as to the larger, indefinable group known as "the public," whom we want to interest in the college through your good work.

You, your faculty, and your school are part of a big story which never ends and which your Public Relations Office is charged with telling in as much variety and with as much effect as possible.

Its Placement Service

Your college maintains a Placement Office which operates as an integral part of the Department of Management and Personnel. The integration between placement and the instruction of this department are purposely designed to provide you with a four-year orientation program to obtain an understanding of the engineer's varied functions in industry and assist you in locating a position most suited to your abilities and interests. This assistance in placement is offered to you as an undergraduate or as an alumnus. Members of the department's staff are available to assist you in obtaining part-time, summer, or full-time positions.

Besides a course in "Engineering Job Survey" for seniors, which describes engineering opportunities, a complete file of this information is available to you in the department office, Room 16, Eberhardt Hall. An extensive file of information on individual companies is maintained in that office. Descriptive bulletins and pamphlets about companies and their opportunities and articles about the engineering work in various government agencies make up about five hundred folders which are open to you at all times. All this information can be used to best advantage to help you in your search for a position in industry. There are also many well-known local, state, and national directories, all available to you.

February to June of the senior year is the period for recruiters from industry to interview students for positions in industry. Every year arrangements are made with several hundred companies to conduct interviews on the campus of the college or have seniors visit companies for the purpose of selecting new engineering talent from among our graduates.

Facilities are available in Eberhardt Hall for group meetings, and offices are used for individual personal interviews with the recruiters of these companies. In this way, you have the opportunity to be interviewed by representatives from the companies in which you may be interested. For the industrial recruiter, a folder on each graduating student is furnished with factual information to supple-

ment the interview. You have a large share in producing the material in this folder. Supporting assistance in placement is also provided by the Testing and Guidance Center and the professional departments.

The Honors Option Program is a type of cooperative work-study program provided for you by the college. It is open to students completing the sophomore or junior years. It provides an assistance in placement on pre-engineering jobs for the summer months to those maintaining an academic rank in approximately the upper fifth of their class. In return for certain assistance in instruction in the "Staff Control" classes of the junior and senior year, both a monetary remuneration as well as a citation at graduation are provided for those who complete two years of this program.

Each spring hundreds of local companies are circularized in order to provide work experience for the students of the college. The Honors Option group are those provided with these opportunities first. In many instances not only is the practical work experience helpful in their understanding of engineering responsibilities but many times provides an opportunity for a position upon graduation.

It is the combination of the academic and practical experience which is so valuable to an engineering student. This entire program of summer placement, not only to the Honors Option student but to the general student body, is coordinated in the Placement Office of your college.

Part-time Jobs: The Department of Management and Personnel can place you in a part-time job if you need to supplement your income. You can earn your additional income as a salesman, industrial employee, or clerical worker.

If you wish to apply for a job at the college as a laboratory assistant, you should consult the Chairman of the Department in which you choose to work.

Mr. Russell Lewis, Engineer in Charge of Maintenance, has a limited number of jobs such as switchboard operator, maintenance and repairman, and mimeograph operator.

YOUR WORK

Your Freshman Courses

All students entering NCE study the same basic subjects. Your first semester courses consist of mathematics, English, physics, chemistry, history, engineering drawing, and physical education. In addition, the Principles of Engineering course is an indoctrination subject where you hear the members of the various departments discuss phases of your college life and your chosen profession—engineering.

In studying these courses, you can expect a year of hard study which will pay dividends in the future. You will find that the freshman year is a period of transition in which the high school boy becomes the college man. At times you may feel quite discouraged, but you should remember that nothing worth while comes easy. You will find that NCE has a high standing with the nation's industrialists because of the high quality of its graduates.

Your Sections

During the first semester you are assigned to a section designated by a letter (A,B,C, etc.) This letter is followed by the numeral one (1). The freshman curriculum is assigned to each section in a sequence which lends itself to an over-all schedule of all sections and the classrooms which they will use. In the second semester the letter is retained, but the numeral two (2) is substituted for the (1) of the first semester. Take, for example, A-1. By inspection you would know it to be a first semester freshman section, and by going to the Recorder's desk in Weston Hall (where there is a master schedule book), you can find out whether it was a regular or a ROTC section.

In the sophomore year (first semester) you may retain your original letter, but not necessarily; you will definitely receive a section with the numeral three (3) after the letter, e.g. A-3. In the sophomore year the students who wish to take the Chemical Engineering curriculum (offered in the third and fourth years) are assigned to special sections, as are the ROTC students. Again checking the

master schedule, you will be able to find out which sections are chemical, ROTC, or regular. In the second semester of the sophomore year the numeral (4) is substituted for (3) and the letter retained.

In the junior year you will be assigned to a section according to the department from which you intend to receive your degree. For example, the students taking a Mechanical Engineering curriculum are assigned to sections designated M5A, M5B, etc. In the second semester the sections are M6A, M6B, etc.; and in the senior year the sections are M7A, etc., and M8A, etc., first and second semesters respectively.

The Chemical Engineering students in the third and fourth years have a letter designation CH with the numerical sequence as in the Mechanical Department.

Civil Engineering students have the designation CE.

The Electrical Engineering students in the third and fourth years have a letter designation of E with the numerical sequence as above.

Your Grades

Your grades are given as follows:

- A Exceptional
- B Above Average
- C Average
- D Passing, but below average
- F Failure, repetition of course required

These letter grades are translated to numerical grades by the college Recorder for filing purposes. The numerical equivalents are as follows:

A	—	4
B	—	3
C	—	2
D	—	1
F	—	0

You will probably hear other students discussing averages necessary to gain access to various honor societies. These averages are in

terms of the numerical equivalents; they represent the sum credit hours of the courses multiplied by the numerical equivalents and divided by the total credit hours. A 3:00 (B) average with no grades lower than a C will place you on the Dean's List.

In addition to these regular grades, there are two grades given for the student who leaves a course before the end of the term. These are as follows:

- W - Withdrawn
- I - Grade deferred

The regulations regarding withdrawal procedure are listed below:

You may withdraw from a course or courses *only* upon written notice to the Dean of Students. Withdrawal forms are available in the Office of the Dean of Students.

The grade which you receive in a course from which you withdraw will be determined by the following conditions:

1. The receipt of the notice by the Dean of Students will be considered to be the date of withdrawal.
2. When the date of withdrawal occurs before the end of the fifth week, the student will receive a grade of W in the course from which he has withdrawn.
3. When the date of withdrawal occurs after the beginning of the sixth week and before the end of the twelfth week, the student will receive a grade of F in the course from which he has withdrawn, unless the withdrawal is caused by circumstances beyond his control.
4. When the date of the withdrawal occurs after the start of the thirteenth week of any semester, the student must receive a grade of A, B, C, D, or F. The grade of "I" is given in those rare instances where you would normally complete work, but because of special circumstances cannot.

YOUR AIR FORCE ROTC PROGRAM

The Department of Air Science and Tactics offers you a four-year course leading to a Second Lieutenant's commission in the United States Air Force Reserve.

Enrollment in the Air Force ROTC program is voluntary and is open to you if you are a citizen of the United States, are physically qualified, can pass the screening tests, and are approved by the President of the College and the Professor of Air Science and Tactics. You must be less than 23 years of age to enter the Basic Course.

You will, if you decide to take the program, be given books, equipment, and uniform free of charge. If you are selected for the Advanced Course, you will receive a subsistence of approximately \$27.00 a month. You will have to attend camp for four (4) weeks between your junior and senior years, for which you will be paid \$75.00 a month plus traveling expenses.

No flying training is involved in the college program, but on completion of your career at NCE, you may apply and be assigned to pilot or navigator training in officer grade. While some commissions are granted for engineering duties in the Air Force, greater opportunities for commissions exist for those who desire flight training following graduation.

YOUR ORIENTATION PROGRAM

When you received "The Log," you found a list of instructions to aid you in your registration. In addition, on the day of registration and the one following, an Orientation Program is planned for you. You will find that the entire program is designed to help you make adjustments from your high school to college. The schedule of speakers has been arranged to give you an over-all picture of your college and its operation both by the administration and the students themselves. President Robert Van Houten, Dean William Hazell, and Dean Frank Grammer will give you an idea of the philosophy of the

administration in shaping an engineer's career. You will find that they expound beliefs that will conform to your idea of the training that a professional man should have. The completeness of the success of this training venture which you have agreed to take will depend solely upon your sincere desire to accept the responsibilities of your profession.

After the talks by the administration the student leaders of the college will speak to you about the activities of their organizations so that you can choose the extracurricular activities which you would enjoy most. Tours through the college and its facilities are conducted by Phi Eta Sigma, the freshman honorary society. If you supplement your orientation with frequent reference to the pages of "The Log," you will find a complete picture of the extracurricular program of the college.

Through the Principles of Engineering classes the following topics have been established to aid freshmen further to adapt themselves to the college and to the profession of engineering:

- | | |
|--|--|
| 1. Engineering Education | 12. Dynamics of the Labor Movement |
| 2. Problem Solving | 13. Labor Legislation |
| 3. How to Study and Why | 14. Industrial Relations |
| 4. Using the Library | 15. Professional Background |
| 5. Technical, Professional, and Social Disciplines | 16. The Social and Economic Responsibilities of the Profession |
| 6. Student Activities | 17. Professional Consciousness |
| 7. The Athletic Program | 18. Aesthetic and Spiritual Values in the Profession |
| 8. Physical Health | 19. The Philosophy of the Profession |
| 9. Adjustments in College | |
| 10. Mental Health | |
| 11. History of Industrial Organization | |

- | | |
|---|---------------------------------|
| 20. The Technological Aspects | 23. Opportunities in Research |
| 21. Choosing a Branch of Engineering | 24. The Work of the Designer |
| 22. The Character and Range of the Profession | 25. The Engineer and Production |
| 26. Employment in Sales Engineering | |

YOUR ALUMNI ASSOCIATION

When you are handed that diploma on graduation day, it won't mean you've come to the end of your college life. In fact, the true culmination of your collegiate career will come when you join the ranks of the alumni. Your days as an N.C.E. student will last only four years; but once you attain the status of "alumnus," you'll be one for life.

The facilities of the rapidly growing N.C.E. Alumni Association will be ever available for your reference. Designed to provide a go-between for you and your Alma Mater, the Association functions as a focal point for all alumni activities. Here you can continue the friendships established in your undergraduate days and you'll have the opportunity for close association with other alumni who have become established in the engineering world. These are good connections to have when you need a job—or just want to talk things over with a friend.

The Annual Reunion, *The NCE Alumnus* magazine, the Alumni Newsletter—all these are sponsored by the Alumni Association. Each is a constant news source concerning the whereabouts and activities of your classmates.

You can expect at least two issues of the *Alumnus* per year, unlimited editions of the Newsletter, and your first reunion about two years after you rate that diploma. The next one will be three years after that, and then on the average of once every five years you'll have a chance to check on the receding hairlines of your classmates, compare increases in belt lengths, and gripe about your high income tax. It may sound funny now, but you'll find yourself looking forward to those reunions with eager anticipation.

But in addition to the fostering of ties among the alumni, the Association also extends a helping hand to the college. The Colton Memorial Scholarship, The Alumni Association Scholarships, and other projects of this sort enable embryo engineers to gain the education you are starting. And there are other ventures in the offing: new projects (like supporting future handbooks) and rumors of different activities not only for the alumni, but also for those others like you who are just taking their first uncertain steps toward the B.S.—and the future alumni who will be doing the same thing when you're drinking toasts to each other at your Silver Reunion.

INFORMATION FOR FRESHMEN

Registration

Specific instructions for registration are issued by the Office of the Dean to the following classifications of students:

Students with regular schedules may complete their registration by mail and are given a definite date to come to the college to pay tuition and fees and to buy books and supplies.

Students with irregular schedules should make an appointment with their advisers, at which time purchase of books and supplies and payment of tuition and fees may be made.

Bulletin Boards

Watch the bulletin boards to keep up with what is happening in school. If you wish to make use of their facilities, keep in mind the following rules:

1. All notices and announcements will be typewritten on either 4 x 6 cards or 8½ x 11 white paper. Typing service is available in the Office of the Dean for this purpose.
2. Posters and backers will present a neat and professional appearance. Notices will be typewritten or they may be *neatly* printed in *ink* in keeping with Engineering Drawing standards.
3. Notices will pertain to college activities.
4. Notices of general interest such as lost or found, riders wanted, regularly scheduled organization meetings, etc. will be dated and will remain posted for not longer than four weeks. Notices of social affairs will be posted not more than three weeks in advance except for notices of major affairs which may be posted one month in advance. Notices and backers referring to a specific event will be removed immediately after the event.

5. Bulletin boards available for student use are located as follows:

Lobby of Weston Hall
 Second floor landing, east end of Campbell Hall
 Landing between Mechanical and Electrical levels, inside Summit Place entrance to Laboratory Building
 The walls of the Commons
 Lobby of Eberhardt Hall outside Cafeteria entrance

All other bulletin boards are the property of the various departments and will not be used without the specific permission of the department concerned.

6. All reservations of meeting rooms must be made through the Office of the Dean before notice of meeting can be posted. All notices, posters, and other items to be posted must be approved. A notice of meetings or other specific events must be submitted to the Bulletin Board Committee no later than the Friday preceding the week in which the event or meeting will take place. This is to facilitate the publishing of a summary of the events of the week.

Lost and Found

If you wish to report the loss of personal property, go to the Bookstore and complete the forms provided there. This information will help the college to return the property to its rightful owner.

If you find any mislaid items, you should turn them in at the Bookstore and give the location where the articles were found.

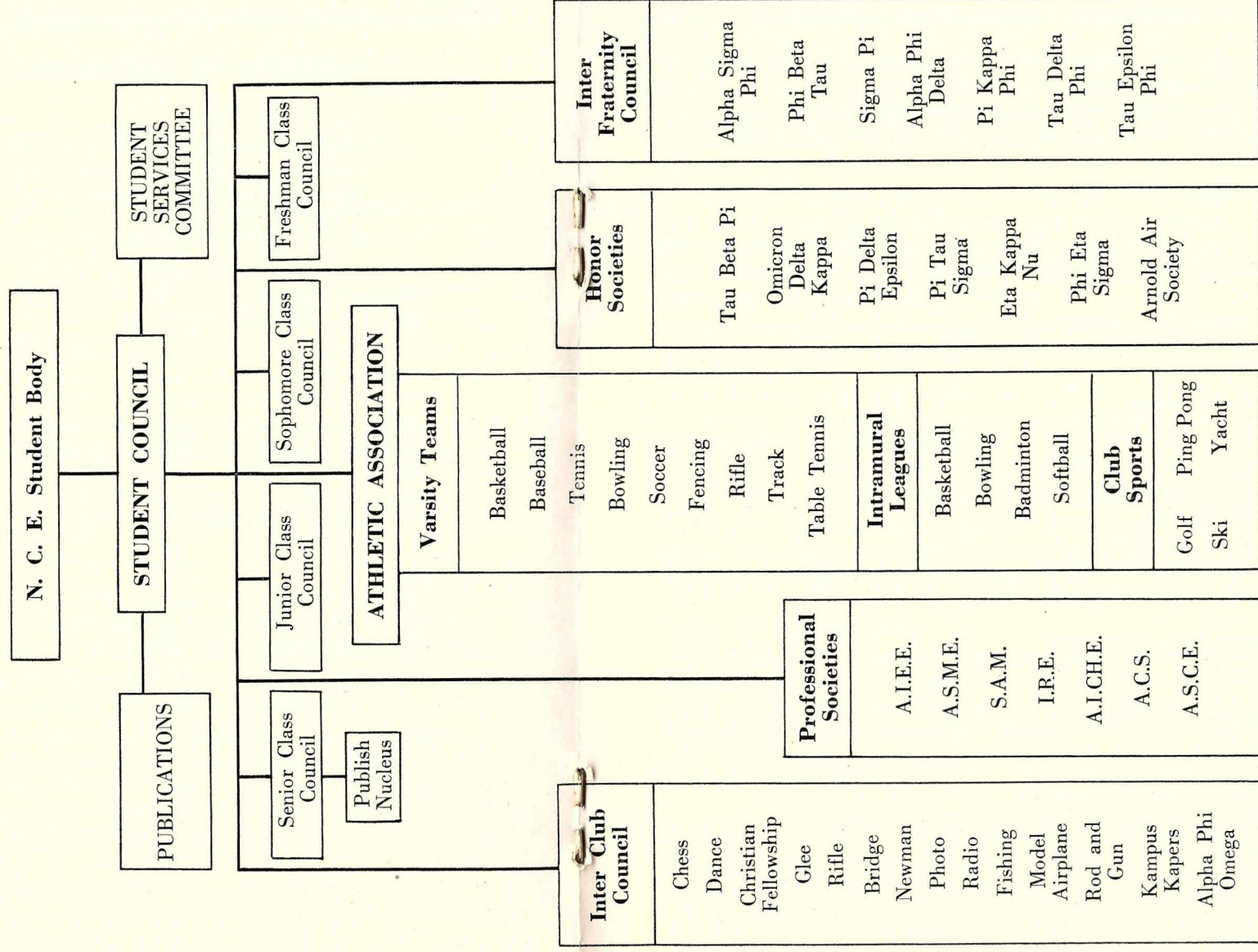
You are cautioned against leaving your brief cases, books, slide rules, etc. unattended or on locker tops. Our buildings are open about fifteen hours a day, and it is probable that people other than our students may wander through the premises.

Lockers

For the storage of books and clothing, your lockers are located in Campbell Hall and in the Laboratory Building.

STUDENT ORGANIZATION CHART

Newark College of Engineering



A rental charge of fifty cents a semester is made for the locker, and you must supply your own lock. If, because of lack of space, it is necessary to share a locker, you will be charged only twenty-five cents a semester. Payments and assignments are made on registration day.

Student Mail

To find out if you have mail at the college, you should check the Mail List, which is posted daily on the bulletin board in Weston Hall. The mail boxes are located in Room 15-W on the right side on the wall.

If you wish to send mail to a student, place your correspondence in the proper alphabetical "pigeon-hole" that is found in Room 15-W.

Faculty Mail

If you wish to write or contact any member of the faculty, give the letter or note to the Secretary, Office of the Dean.

Telephones

Public telephones for your use are located in the first floor of Campbell Hall near the entrance to the freshman locker room and in the foyer of Eberhardt Hall.

"Rooms for Rent"

Rooms for rent are to be found in the immediate vicinity of the College and also in surrounding towns. If you wish to rent a room, contact Professor Robert Kiehl of the Personnel Relations Department, who has a list of rooms.

Eating

You may buy a hot luncheon at the Cafeteria located in Eberhardt Hall, which also serves soups, sandwiches, salads, beverages, and cake at non-profit prices. For your pleasure you can listen to restful music by Jerome Kern, Cole Porter, and Irving Berlin.

Those who wish to bring lunch from home may eat it in the Commons, where you may purchase milk, ice cream, candy, and soda from automatic vending machines, as well as in the cafeteria.

Cafeteria Hours—Monday to Friday: 9:00 A.M. to 7:00 P.M.

Lunch 11:00 A.M. to 2:00 P.M.

Supper 5:00 P.M. to 7:00 P.M.

Parking Regulations

You are urged to avoid all violations of the city parking ordinances, particularly those indicated below:

1. Parking in areas where police signs forbid such parking.
2. Parking in driveways.
3. Parking near fire hydrants.
4. Parking too near street intersections.
5. Parking with car facing in the wrong direction.
6. Parking more than six inches from the curb.
7. Parking in certain narrow streets with wheels on the sidewalk.
8. Parking in front of entrance or exits of school buildings.

You are also reminded that parking is forbidden in the lot at the rear of Eberhardt Hall. This lot is reserved for deliveries and for official guests of the College and salesmen.

Smoking Regulations

The danger of fire in the building makes the following smoking regulations necessary:

1. CAMPBELL HALL — Smoking is permitted only in the halls and stairways.
2. LABORATORY BUILDING — Smoking is permitted only in the Summit Place stairwell.
3. WESTON HALL — With the exception of the Commons, no smoking is permitted in this building.
4. EBERHARDT HALL — Smoking is permitted only in the Cafeteria.

NOTE

- a. Exceptions to these rulings are sometimes made by special permission on the occasion of the meeting of professional societies, where rigid inspection is practicable.
- b. Smoking is not permitted in any of the lavatories, laboratories, or classrooms at any time.
- c. Smokers are requested to cooperate in keeping stairs and passageways clean and open for traffic.

Veterans and Selective Service Information

Veterans are welcome at NCE. All of the programs of the College are available under the rehabilitation programs of the Veterans Administration and the G.I. Bill of Rights. If you are a veteran, you may be given credit for courses given under the program of the Armed Forces Institute when they are equivalent to any of the courses given at the College. If you wish any further veteran information, you should see Dr. Frank Lewis in Room 37, Eberhardt Hall.

If you are not a veteran, you will be interested in Selective Service deferments. See Professor Charles Kiernan, Room 22, Eberhardt Hall, about deferments and other Selective Service information. Watch daily papers and *The Technician* for changes in the Selective Service law. If you are in ROTC, consult the ROTC office for necessary information.

Absences

You are not allowed any absences from classes during the entire college year. If, however, it is impossible for you to attend class because of an accident or sickness, be sure to call the office of the Dean of Students and tell the secretary your name and the length of time you will be absent. This simple deed will save you trouble and will keep your mail box free from absence warnings.

Tutoring

Tau Beta Pi, the national honorary engineering society, offers a tutoring program for all students of the college. Phi Eta Sigma,

which is the freshman honorary society, tutors all freshman subjects. Their efforts are directed toward helping you in all possible ways—both scholastically and personally.

The services sponsored by these organizations are available to you. You are urged to take advantage of them if necessary. Do not let false pride hold you back.

See your adviser or Dean Grammer or contact Tau Beta Pi or Phi Eta Sigma through the student mail if you wish tutoring.

Advisers

All freshman and sophomore students have been divided into alphabetical groups and assigned advisers in accordance with the following schedule:

A	—	Ci	inclusive Professor Burns (Drawing)
Cm	—	F	inclusive Professor Estrin (English)
G	—	J	inclusive Professor Capecelatro (Physics)
K	—	Mc	inclusive Professor Mainardi (Mathematics)
Md	—	Q	inclusive Professor Bishop (Chemistry)
R	—	St	inclusive Professor Kiehl (Management and Personnel)
Su	—	Z	inclusive Professor Tully (Chemistry)

The departments in which these advisers may be found are shown after their names. It is suggested that every new student become acquainted with his adviser as soon as possible.

Guidance

Your college has established a Testing and Guidance Division to reduce losses which stem from the inability of certain students to adjust to the requirements of an engineering education. Organized for vocational and educational counseling, the Division is a complete unit. Located in special quarters in Room 37 Eberhardt Hall, the Guidance Center gives the privacy desirable for counseling and has facilities for individual or group testing. You may also have your eyes examined on the Center's modern tele-binocular apparatus.

The Guidance Division aims to assist you if necessary by conference and testing and by analyzing your strengths and weaknesses so that a path to improvement may be discovered.

Do not fail to make use of these services if you feel that you would benefit from them.

Visitors' Day

Usually held on a Saturday in the spring, Visitors' Day is traditional "open house" at the College. Originally planned as a parents' day, it gained such popularity that it was soon opened to high schools and to the general public. Each of the professional and nonprofessional departments takes part in the affair. Experiments and problems are presented in the chemical, physics, and professional laboratories. All students participate as demonstrators and assistants or as guides. The entire program is planned by student departmental chairmen and their committees.

Student Aid

It must be remembered that your tuition at Newark College of Engineering does not cover the entire expense of your education. Appropriations granted by the State of New Jersey and the City of Newark make up the difference. Since each student is being granted financial assistance, it would be manifestly unfair to award scholarships to students who are financially able to pay their tuition.

In order to be eligible for a scholarship or scholarship aid, you must meet the following conditions:

1. You should have a letter of acceptance to the College from the Director of Admissions before applying for a scholarship or Scholarship aid.
2. You must demonstrate actual financial need.
3. You should be able to finance your first term in College.
4. You must demonstrate satisfactory academic achievement each term.

Requests for information on applications for loans and scholarships should be directed to:

Professor C. J. Kiernan
Newark College of Engineering
Newark 2, New Jersey

Prizes and Awards

The following prizes and awards are presented to outstanding students at the commencement ceremonies. Keep them in mind as you advance in your college career.

Prizes

The Robert Ridgway Prize of the Metropolitan Section, American Society of Civil Engineers.

The Certificate of Award of the American Society of Mechanical Engineers

The Northern New Jersey Chapter of the Society for the Advancement of Management Key

The Pi Delta Epsilon Medal of Merit for the student who makes an outstanding contribution to the publications of the College

The Alumni Award is given to the student who achieves the highest scholastic average during his four years at NCE

Materials Handling Prize — The Silent Hoist and Crane Company Materials Handling Award is presented annually for the best papers on the subject of materials handling. The award is made from proceeds from a trust established by the Wunsch Foundation, Inc., of Brooklyn.

Activities Key

The student body recognizes, as the faculty does, that the man who can lead, participate in, and support student activities is the man

who will fit best into the industrial scheme. Each year, the Student Council awards an Activities Key to the students participating in the most student activities. The task of evaluating the students for participation is accomplished by a point system. For further information consult the Student Council Activity Award Committee.

If more than twenty-five students are eligible to receive awards, only the top twenty-five students will be given awards.

Group I (12 points per year):

President of Student Council, President of Senior Class, Editor of Yearbook, President of Athletic Association, Editor of *Technician*.

Group II (10 points per year):

Vice-President of Student Council, Treasurer of Student Council, President of Junior Class, President of Sophomore Class, President of Freshman Class, President of Interfraternity Council, President of Tau Beta Pi, President of Omicron Delta Kappa, Captain of Basketball Team, Captain of Baseball Team, Captain of Fencing Team.

Group III (8 points per year):

Director of Intramural Bowling, Director of Intramural Basketball, President of Interclub Council, President of Fraternity, President of Society, Officers (other than president) of Senior Class, Officers (other than president) of Junior Class, Officers (other than president) of Sophomore Class, Officers (other than president) of Freshman Class, Officers (other than pres.) of AA, Corres. Sec. of Student Council, Rec. Sec. of Student Council, Publicity Director of AA, Business Manager, Assistant, and Associate Editor of *Technician*, Business Manager, Assistant, and Associate Editor of Yearbook, President of Pi Tau Sigma, President of Pi Delta Ep-

silon, President of Arnold Air Society, Varsity Lettermen other than capt. of Basketball, Baseball, & Fencing Teams, Captain of Recognized Varsity AA Teams other than Basketball, Baseball, & Fencing Teams, Visitors' Day Committee Chairman.

Group IV (6 points per year):

Editor of NCE Cadet, President of Professional Societies Council, President of Recognized Clubs, Manager of Recognized AA Teams, Editor of Surveyor, Varsity Lettermen (Other than capt.) of minor sports, Officers (other than pres.) of IFC, Officers (other than pres.) of fraternities, Officers (other than pres.) of Tau Beta Pi, Officers (other than pres.) of Omicron Delta Kappa, Officers (other than pres.) of Professional Societies, Officers (other than pres.) of Pi Tau Sigma, Officers (other than pres.) of Pi Delta Epsilon, Officers (other than pres.) of Arnold Air Society.

Group V (4 points per year):

Director of other than Bowling or Basketball Intramural League, Officers (other than president) of Recognized Clubs, Officers (other than president) of Interclub Council, Officers (other than president) of Professional Societies Council, Chairman of Dance Committee, Chairman of Ring Committee, Chairman of Cap and Gown Committee, Chairman of Smoker Committee, Chairman of Student Council

Standing Committee, Circulation Manager of *Technician*, Advertisement Manager of Yearbook, Circulation Manager of Yearbook, Members of Tau Beta Pi, Members of Omicron Delta Kappa, Receivers of Tau Beta Pi's Women's Badge, Visitors' Day Department Chairman.

Group VI (3 points per year):

Junior Varsity Lettermen, Intramural Champions, IFC Trophy Winners, Fraternity Members, Section Representatives, Student Council Members other than Officers, Members of Pi Tau Sigma, Members of Pi Delta Epsilon, Members of Arnold Air Society.

Group VII (2 points per year):

Members of Clubs, Dance Commit-

tee (other than Chairman), *Technician* Staff Members, Yearbook Staff Members, Professional Societies Standing Committee, Intramural Team Members, Student Council Standing Committee (other than Chairman), Members of Societies, NCE Cadet Staff Members, Surveyor Staff Members.

Group VIII (1 point per year):

Members of Student Organizations (Student Council Cards), Visitors' Day Guides & Aides, Orientation Day Guides & Aides, Graduation Ushers, Representatives to National Societies or Conventions, Members of Civilian Defense.

STUDENT ACTIVITIES

Student activities at NCE are administered and financed by the students for the students. The faculty may serve as advisers and coaches, but they act only at the request of the students themselves. It is assumed that NCE students are responsible individuals, and they are treated accordingly. The Student Council has the complete responsibility and jurisdiction of all activities. You should become thoroughly acquainted with the activities of the Council because it affects you during your entire stay at NCE.

Student Council Cards

Financing student activities is accomplished through the sale of Student Council Cards. However, you are not forced to buy a card. Membership in an organization supported by the Student Council requires that you hold a card. Whether you belong to such an organization or not, you should support your student government and be a proud holder of a Student Council Card!

Your S. C. Card Entitles You To . . .

1. Reduced admission fee to all home games.
2. Free copies of *The Technician*.
3. Reduced rates for T-shirts, decals, and book covers.
4. Procurement of certain radio, television, concert and theater tickets.
5. Guided tours to New York City.
6. Restaurant and theater lists.
7. Reduced rates on luggage, briefcases, typewriters.
8. Use of intramural and interclub facilities.

Your Student Services Committee

Your Student Services Committee endeavors to make available to you all of the various musical, artistic, athletic, and dramatic offerings in the metropolitan area. The Committee establishes contacts with the many agencies which are able to assist the student body in

the procurement of tickets. In addition, it obtains free tickets from the major radio and television companies and weekly distributes them to students upon request. The Committee issues restaurant lists, guides to New York City, and lists of reviews of plays and motion pictures. Through the Committee, students may see productions at the Paper Mill Playhouse, Newark Opera House, The Mosque Theatre, Madison Square Garden, Ebbetts Field, the Polo Grounds, and Yankee Stadium, among other places.

Social Affairs

The college administration does not wish to control your social affairs. However, if you wish to use the name of the College in connection with a social event, you must secure the approval of the Student Council and the Dean of Students. Also, the location of a social affair must be approved by the Dean of Students, the Committee on Social Affairs of the Student Council, and the faculty adviser of the group which is sponsoring the event.

Posters and tickets or bids for any social affair must be available four weeks before the date of the affair. Invitations to faculty members whom you wish to have attend your affair should be a personal communication mailed to their homes three weeks before the affair.

The Student Council sponsors the Social Affairs Committee—a group of students who calendar the social events for the entire year. The calendar is drawn up in a meeting with all student organizations on campus. For this reason a calendar date may not be changed unless organizations having dates two weeks before and two weeks after the date to be changed give their approval.

So that your affair may run properly it should be planned by a committee. It should submit a preliminary budget to the Dean of Students before setting the bid price.

Remember, the only way in which a social event can definitely be a success, after careful planning, is for you to participate in and support it.

Student Council

The co-ordinating body of all student activities is the Student Council—a unique organization composed of representatives of professional and honor societies, fraternities, clubs, teams, classes, and publications.

The primary function of the Student Council is to administer the student activities program, particularly with respect to the proper allocation of funds to run the extracurricular program. At the present time, its main income is the successful sale of Student Council cards. College life is made more pleasant by the council's installation of numerous cigarette, coke, candy, and ice-cream vending machines throughout the college.

Class Councils

ADVISERS

<i>Senior Class</i>	Mr. Shawcross
<i>Junior Class</i>	Professor Swanson
<i>Sophomore Class</i>	Dr. Foster
<i>Freshman Class</i>	Professor Estrin

The Class Councils of Freshmen, Sophomore, Junior, and Senior Classes are composed of two representatives from each section. With the class officers the Council of each class arranges, organizes, and executes the social program of its respective class. Smokers, picnics, informal dances, and New York trips are a standard part of the social calendar. The Junior Prom and the Senior Ball are the social highlights of the class program. All classes have a faculty adviser to help them plan and carry out their social calendars.

Clubs

INTERCLUB COUNCIL

The growth of club interest with the increased enrollment at the College has made necessary some type of co-ordinating body to integrate the many activities.

The aims and purposes of the Interclub Council are:

1. To encourage and develop club consciousness among the students of the college.
2. To co-ordinate schedules of club meetings and other functions.
3. To provide a judicial body for the clubs.
4. To provide representation for clubs on the Student Council.
5. To plan for, supervise, and assist in the representation of clubs at the annual Visitors' Day.

ALPHA PHI OMEGA — Mr. J. L. Lubin, Dean William Hazell, Professor H. A. Estrin, Professor R. E. Kiehl, Professor R. F. Swanson, Professor M. R. Weller.

Alpha Phi Omega is the national service fraternity. Any student who has had previous training in scouting, a satisfactory academic standing, and a desire to render service may apply for membership. The fraternity has manned the Student Services Booth and ushered at "Kampus Kapers".

BRIDGE CLUB — Professor W. H. Crater

The club conducts beginners' bridge classes and lectures on the finer points of bridge for the more advanced players. Bridge tournaments are scheduled throughout the year. The Goren Point Count tactics employed by the players have enabled them to be highly successful in intercollegiate competition.

CHESS CLUB

Chess enthusiasts can register for the round-robin play which will determine the members of the Varsity Chess Team. The varsity matches are played with such colleges as Rutgers, Seton Hall, Princeton, and Drew. NCE is a member of the New Jersey Intercollegiate Chess League.

CHRISTIAN FELLOWSHIP — Professor F. G. Lehman

The Christian Fellowship stands as a testimony to the truth of God's word—The Bible. Organized to present the answer to the greatest need of college students, the group has engaged in an active program of Bible study, prayer, and fellowship. The group is affiliated with the Inter-Varsity Christian Fellowship, an organization having chapters in twenty-one foreign countries and in over five hundred colleges in the United States.

DANCE CLUB — Professor R. F. Swanson

The Dance Club was organized under the able direction of our energetic physical education director, Robert Swanson. Many students participating in this organization were amazed to find that they did not have two left feet. Friday nights find the gym filled with a number of the fairer sex recruited from co-ed colleges in and around Newark. With the aid of a record player, the walls resound with the music of fox trots, tangos, polkas, rhumbas, and waltzes.

GLEE CLUB — Professor F. P. Fernsler

Although the work at N.C.E. is not of a musical nature, there is a group at the school which manages to provide a musical background to studying. The Glee Club provides many an exciting moment with the stirring sound of twenty-five voices raised in song. An extensive repertoire permits gay and tender chorales for such occasions as Christmas, student musical reviews, and Visitors' Day entertainment.

GOLF CLUB — Mr. Haubner

The Golf Club is composed of members of the student body who enjoy the game of golf. Its aim is to help anyone who is interested in the game to improve and to instill an interest in non-players. Instruction is carried on for beginners and advanced students. The members have had many satisfactory sessions and have outings when the golf season is open.

INTERNATIONAL RELATIONS CLUB — Professor N. C. Keables

The International Relations Club was organized to stimulate student interest in international affairs. Since its inception the club has expanded rapidly and has become a well-organized unit. One of

the main purposes of this newly formed group is to provide understanding and enlightenment to N.C.E. students with regard to the complex problems facing the world today. The students also visit the United Nations in New York.

KAMPUS KAPERS CLUB — Professor Swanson, Professor Johnson

After the second annual edition of Kampus Kapers, the all-college show, the members of the cast, production and business staffs, and stage crew formed the Kampus Kapers Club. Its purpose is to have an organization to sponsor Kampus Kapers every year. The club works to improve casting, direction, and production for future performances.

NEWMAN CLUB — Professor F. Burns

The Newman Club was organized for the enrichment of the spiritual and temporal lives of Catholic students, and this aim is achieved through a balanced program of religious and intellectual activity. Among other functions, the Newman Club sponsors weekly lectures by priests and laymen and an annual Communion Breakfast.

PHOTOGRAPHY CLUB — Mr. Rose

The Photography Club conducts numerous lecture demonstrations and portrait sessions with the assistance of eight models. Through actual demonstrations, the club teaches fundamental and advanced printing techniques to its members. Lightings, special effects, print retouching, and posing models in portraiture are also discussed.

PING PONG CLUB — Mr. Mangnall

N.C.E.'s ping-pong players have figured prominently in both the New Jersey Intercollegiate and the Metropolitan Leagues this past year. The club provides an excellent opportunity for ardent ping-pong fans to participate in its program.

RADIO CLUB — Professor F. A. Russell

The Radio Club has become a mecca for men interested in this hobby. Endeavoring to aid those interested in procuring their

licenses, the club has constantly maintained code practice equipment and radio theory literature at the disposal of its members. For beginner and seasoned operator alike, the club facilitates discussions concerning recent developments in the art. Operating four amateur bands, members help to spread the name of N.C.E. through local, national, and international contacts from the radio shack—Room 227L.

RIFLE CLUB — Major F. O. Rindom, Jr.

The N.C.E. Rifle Club is affiliated with the National Rifle Association. All club firing is done at the Sussex Avenue Armory with government-supplied rifles. In addition to the pistol matches, the Varsity Team competes with teams from eleven other major metropolitan colleges as a member of the Metropolitan Intercollegiate Rifle League.

ROD AND GUN CLUB — Professor R. G. Poetz

Newark College of Engineering has a very active Rod and Gun Club. The purposes for which this club is organized are to conserve game, fish, and other wildlife and their habitat and to seek better fishing and hunting for sportsmen.

Any student having an interest in the outdoors may join and participate in its many activities by securing an application blank from any member.

Activities include boating, freshwater fishing, salt water trips, small game hunting, wildfowl hunting, deer hunting, spear fishing, fly tying, gun handling, and movies.

SKI CLUB — Professor Polaner

Increased interest in skiing marked the advent of a Ski Club at N.C.E. during the winter 1949-50. Although hampered by a chronic lack of snow, the skiers managed to make several successful trips to the trails of Vermont and the Catskill Mountains. The club, as a member of the Greater Metropolitan Intercollegiate Ski Council, competes in several informal meets during the winter season. The meets are followed by sessions of instructions in the techniques of downhill and slalom racing.

YACHT CLUB — Professor Swanson

The home base of the Yacht Club is at Lavallette, and most of the sailing is done on Barnegat Bay. The topics in the discussion meetings range from the art of boat building to racing rules and sailing.

Athletics

ATHLETIC ASSOCIATION

The Athletic Association is operated and supported solely by the students. Its objectives are to stimulate student interest in extracurricular activities in the sports field, apportion funds contributed by the students in such a manner as to bring the greatest possible return to the contributor in the form of activities, encourage intercollegiate competition which will foster good will and sportsmanship between N.C.E. and other colleges, approve varsity schedules, and present athletic awards at its annual banquet held during the final month of the spring semester.

The Association operates through a council consisting of four A.A. officers who appoint the student manager of intercollegiate athletics, managers of intercollegiate and intramural sports, and representatives of clubs under the jurisdiction of the A. A.

The following intercollegiate sports are offered at N.C.E.:

Baseball	Basketball	Bowling	Cross-country	Fencing
Riflery	Soccer	Table Tennis	Tennis	

INTRAMURAL SPORTS

Under the direction of Professor Robert Swanson, the Athletic Association intramural activities have expanded in the last several years from a single organized basketball league to the present highly co-ordinated program which offers basketball, badminton, bowling, and softball to N.C.E. students.

In 1950 intramural sports were placed in a separate category for the first time. Thus, students who wished to participate in one or more

sports were assured of the opportunity to compete through precise scheduling of available gym time and the presence of competent referees for every scheduled contest.

ATHLETIC ASSOCIATION

Badminton League	Professor Swanson
Baseball Team	Professor Johnson
Basketball League	Professor Swanson
Basketball Team	Professor Bauder
Bowling League and Team	Professor Duursema
Fencing Team	Mr. Ringi
Golf Club	Mr. Haubner
Ski Club	Professor Polaner
Soccer Team	Mr. Rae
Softball League	Professor Swanson
Table Tennis Club	Mr. Mangnall
Tennis Team	Professor Fithian
Track Team	Professor Swanson
Yacht Club	Professor Swanson

Social Fraternities

INTERFRATERNITY COUNCIL — Dean F. A. Grammer

The Interfraternity Council is essentially a coordinating organization which performs the vital and difficult function of bringing together the collegiate-fraternal ideas of the various groups of students, the faculty, and the Student Council. These suggestions are discussed in the regular business meetings of the Council, to be crystallized into definite plans of action for social and athletic activities. Special awards and trophies are distributed through the Council to students whose meritorious efforts in fraternal life earn distinction.

ALPHA SIGMA PHI — Professor C. H. Duursema

Alpha Sigma Phi was founded at Yale University and has since become one of the largest fraternities in the country. The past

few years have brought with them several important advances for Alpha Rho Chapter, among these being the acquisition of a new and more desirable house, an increase in active membership, and the reorganization of an active alumni group. Alpha Rho Chapter looks with pride on its record of good fellowship and scholarship attained through the years. 103 Warren Street.

ALPHA PHI DELTA — Dr. Achille Capecelatro

An increased membership in Alpha Phi Delta Fraternity made possible a greater participation in campus activities and interfraternity athletics. Prominent since its establishment in 1930, Alpha Phi Delta has been guided by its ultimate aims: to promote the technical knowledge of the members, to provide social entertainment, and to develop individual friendships. Lectures on various technical subjects help keep Alpha Phi members abreast of their field. The fraternity's social activities are highlighted by their Annual Dinner Dance. 101 Summit Street.

PI KAPPA PHI — Professor G. C. Keffe

The Pi Kapps have been prominent in school affairs since the formation of a national Pi Kappa Phi chapter in 1948 from the original local Phi Sigma Omega Fraternity. Open house is held by the fraternity members after every home basketball game in order to celebrate the Highlander victories. A complete social calendar is rounded out with the Rose Ball, square dances, and frequent parties. 167 Warren Street.

PHI BETA TAU — Professor Wasson and Mr. Haubner

Phi Beta Tau has been one of N.C.E.'s most active fraternities since the formation shortly before the war. The brotherhood has actively participated in the interfraternity basketball and bowling ties. During the past year a constantly growing alumni association has been organized to carry on the high ideals of the fraternity after graduation. One of the main policies is the principle of religious and racial equality which has proved a valuable asset to Phi Beta Tau. 117 Warren Street.

SIGMA PI — Professor Robert Anderson

Alpha Mu is the representative on the N.C.E. campus of the Sigma Pi Fraternity—national organization of over fifty active and four colony chapters. Its primary concern has been to foster an interest in social affairs in the College. Every Thanksgiving Eve, Sigma Pi holds its Orchid Ball—a formal affair at which the fraternity brothers present their dates with a purple orchid. A Founders' Day Banquet and an informal Spring Dance round out the scheduled social functions. 332 High Street.

TAU DELTA PHI — Professor H. A. Estrin

Since the founding of Tau Epsilon Chapter of Tau Delta Phi Fraternity five years ago, the fraternity has become increasingly active both scholastically and socially. Socially, it has recently expanded to more spacious fraternity quarters somewhat closer to the college. Parties and other gatherings are held monthly. 197 New Street.

TAU EPSILON PHI — Mr. Julius Shrensel

Founded October 19, 1910, at Columbia University, Tau Epsilon Phi issued a charter for the Tau Psi Chapter at the Newark College of Engineering in 1947. Being nonsectarian and representing many creeds, the organization has served to enrich the college life of its members by providing a place for study, recreation, and friendship; by supplying aid in particular subjects; and by providing a convenient stop-over for commuting students. The New Year's Party, the Annual Dinner Dance, and the Conclave and Beach Party are highlights of the Social Affairs Calendar. 140 Warren Street.

Publications

"TECHNICIAN" — Professor H. A. Estrin and Mr. R. D. Blanchard

The *Technician*, semi-monthly newspaper publication of the students, offers an opportunity for enjoyment and experience in the field of journalism. Produced in the same manner as any big city newspaper, the news, sports, features, and business staffs are con-

stantly working together to yield a well-balanced, interesting, accurate, and easy-to-read paper. Editorially, the *Technician* has taken sides on many controversial issues—and has constantly crusaded for changes that the staff has believed would be beneficial.

Experienced and inexperienced writers are invited to join the staff.

"NUCLEUS" — Mr. John T. Shawcross — Class of 1954

The college yearbook *Nucleus* is completely operated and financed by the students. During the junior year the business and the literary staffs are selected. The *Nucleus* is a compilation of the history of the class and a survey of the extracurricular activities of the college. It contains an individual picture and write-up of each senior.

"ET CETERA" — Professor H. A. Estrin

The *Et Cetera* is the college literary magazine which is composed of articles, stories, and poems submitted by the students. An editorial board consists of three students and two faculty members. Any student who writes an original piece of work should send it to the Editorial Board of *Et Cetera*. A prize is given to the student who submits the best selection.

"SURVEYOR" — Professor James Robbins

The *Surveyor* is the official newspaper of the N.C.E. Student Chapter of the American Society of Civil Engineers. It is published on the second Monday of each month to coincide with chapter meetings.

The primary purpose of the paper is to publicize A.S.C.E. activities and thus keep the Civil students well informed of coming events. The paper is noted for its clean scoops in the "Vacuum Cleaner" column—a column containing contributions from the student body. A write-up of the qualifications of speakers at chapter meetings and background material necessary to comprehend their talks are also contained in the *Surveyor*. The paper is not all seri-

ous, however. A large portion of it is devoted to college humor and funny classroom episodes.

"THE CADET" — Major M. A. Barry

The latest publication on campus is *The Cadet*, which is published by the members of the R.O.T.C. News items, cartoons, and features are adapted to the activities of the Air Force group on the campus.

"LOG NCE" — Professor H. A. Estrin, Mr. R. D. Blanchard

The freshman handbook, of which this is the first issue, is expected to become an important help to students and faculty alike in the life of the college. Its editors hope that it will be expanded from year to year as the college grows and as more effective ways present themselves of adding vital information. As the college's newest publication, *log nce* will welcome your suggestions for its improvement.

Professional Societies

PROFESSIONAL SOCIETIES COUNCIL—Composed of the president of each society represented at the College, the Council coordinates the activities of the societies into an integrated program designed to present the maximum advantages to the college as a whole. Under its direction the conflict of more than one event on any date has been eliminated, a single program of films has been arranged with equal support from all activities, and a semi-annual general meeting of the members of all the societies has been sponsored. In addition, the monthly discussions of the group aid in disseminating ideas which benefit all the member societies. The council stands ready to assist any society or any individual member of a professional society in the solution of problems pertaining to professional activities.

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS —

Dr. C. L. Mantell

The aim of this organization is the furthering of Chemical Engineering through chapter meetings and plant trips to chemical in-

dustries in the area. Once each year the chapter sponsors a four-day plant trip to give the students a wider picture of the industry. Meetings are held twice monthly, at which speakers from industry discuss various aspects of Chemical Engineering.

AMERICAN CHEMICAL SOCIETY — Professor J. A. Bishop

The American Chemical Society offers to students of the chemistry and chemical engineering opportunity to broaden their knowledge of the field. Student affiliates have the privilege of attending national, regional, divisional, and sectional meetings on the same basis as a member of the society. Here they gain the benefits of excellent discussions, as well as extending the range of their acquaintance with men in the profession. Through plant trips, films, and the professional publications that are made available, an insight of the conditions under which the chemical industry operates is gained for future application.

AMERICAN SOCIETY OF CIVIL ENGINEERS —

Professor James Robbins

The aim of the Student Chapter of the A.S.C.E. is to produce better civil engineers. This is accomplished by presenting practical applications of course material, by obtaining guest speakers, by acquainting students with leading men in the field, and by introducing members to each other through social events. This chapter is an active member of the Metropolitan Conference, which sponsors field trips to various industrial organizations. A well-developed social calendar helps to broaden and develop the social life of the student engineer. Picnics and dances have been successful in promoting a closer and friendlier relationship among members.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS —

Professor E. Miller

The object of the A.S.M.E. is to promote through its student chapters a professional spirit among its members and to provide a source of contact with practicing engineers. That the Society has been successful in this respect is shown by the expansion of activities from

year to year. The increased interest shown in student members by the parent society indicates that participation in the activities of this society aids in the development of a well-integrated professional man. Since its inception, the society has had outside speakers, plant visits, and participation in conventions as regular features. In the past few years, however, these activities have assumed a more cosmopolitan air. Inspection of the steel mills in Bethlehem, Pennsylvania; the Westinghouse Company in Philadelphia; and Consolidated Edison in New York have pushed the horizons beyond New Jersey.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS —

Professor Robert Anderson

The N.C.E. branch of the American Institute of Electrical Engineers operates in accordance with the national A.I.E.E. policy of sponsoring chapters at accredited engineering schools. The local chapter functions with the purpose of supplementing in important respects the formal courses of instruction, enabling young engineers to adjust themselves more promptly to circumstances which follow their graduation.

Meetings featuring prominent guest speakers and technical motion pictures were held frequently to acquaint the members with practical problems of the engineering profession. Field trips, such as the inspection of the Westinghouse Meter Division Plant and the Public Service Sewaren Generating Station, are arranged. The chapter has successfully cooperated with other professional societies in holding joint sessions and in sponsoring activities of benefit and interest to members and non-members alike.

SOCIETY FOR THE ADVANCEMENT OF MANAGEMENT —

Professor William Jaffe

The Society for the Advancement of Management, the recognized professional society for industrial engineers and managers, offers N.C.E. students pertinent information on the general topics of industrial engineering and management and opportunities to become acquainted with this field. Plant visits are arranged by the student chapter and interesting films are made available for meetings.

INSTITUTE OF RADIO ENGINEERS — Professor Donald Dickey

The primary purpose of the Institute of Radio Engineers is to stimulate and advance the interest of electrical engineering students in the fields of communications and electronics. This it has accomplished with remarkable success during the last year, when a variety of activities was presented.

Honor Societies

(Students are elected to these societies.)

TAU BETA PI —

Professors Thom, Anderson, Ramberg, Hoffman

The primary function of Tau Beta Pi, national engineering honor society, is to recognize those men who have shown distinguished scholarship and possess exemplary character. The New Jersey Gamma Chapter is also engaged in several other activities intended to further the principles of the organization. The Tau Beta Pi Tutoring Program provides assistance to students having difficulty in their academic pursuits.

The third major activity of the Chapter is the Instructor Rating Program, under which instructors asking to take part are evaluated by the students in their classes on such qualities as academic proficiency, classroom technique, and personality in general. The results of the rating are reported to the instructors.

With the basic principles and purposes of the organization to guide them, Tau Beta Pi unites the interest of the faculty and students on a basis of mutual understanding.

OMICRON DELTA KAPPA — Dean W. Hazell, Jr.

The Newark Circle of Omicron Delta Kappa is a leadership honor society for men. It is designed to bring together in one body for the general good of the college all leaders in various forms of activities. The Circle strives to promote the project "ODK Idea" by recognizing men who have attained a high standard of efficiency in all collegiate activities and by bringing together on a basis of mutual understanding men who represent all phases of campus life.

Membership in ODK is limited to upperclassmen who have distinguished themselves in certain major and minor positions or offices while remaining in the upper third of their class. Invitation of new members is held once each term in conjunction with a special banquet meeting.

The Circle extends advisory service to campus organizations and sponsors leadership and "gripe" conferences. Discussion meetings and convocations are typical ODK projects.

ARNOLD AIR SOCIETY — Captain Minella

The Arnold Air Society is a national honorary organization of advanced Air Force ROTC cadets. It has as its explicit purpose the furtherance of the concepts and traditions of the United States Air Force.

This liaison with the Air Force is accomplished by means of informal talks and gatherings with specialists from the Air Force and from civilian life on related topics. Field trips to Air Force bases and installations are also made by the members of the society.

The national society offers a yearly scholarship of \$500.00 to a deserving junior of the organization. This award may be used as the recipient sees fit.

PI DELTA EPSILON — Professor H. A. Estrin

Pi Delta Epsilon is the honorary collegiate journalism fraternity. N.C.E. students who have served two years on the *Nucleus*, *Et Cetera*, *The Technician*, *The Cadet*, and *The Surveyor* are eligible to become members. In an advisory capacity the society stands ready to assist any organization who requests aid in its publications. The fraternity sponsored the writing and editing of *The Log*.

ETA KAPPA NU — Dr. H. S. Dixon

Eta Kappa Nu is the Electrical Engineering Honorary Society at N.C.E. Its purpose is to foster scholarship among the student body, to promote and to form a liaison between the staff of the Electrical

Engineering Department and the students, and to give recognition to those undergraduates whose character and scholarship merit it.

PHI ETA SIGMA — Dr. Paul Hoffmann

Phi Eta Sigma was established in 1952 to recognize scholastic achievement of the members of the freshman class. One of its main functions is to aid the orientation of incoming freshmen. It also aids in tutoring freshmen who request aid academically.

PI TAU SIGMA — Professor George Thom

This honorary society is devoted to the development of high ideals in engineering and to the recognition of distinctive technical ability and leadership of Mechanical Engineering students. In conjunction with the Department of English, Pi Tau Sigma sponsors a technical paper writing contest for sophomores.

NCE CHEERS

Dynamo

Dynamo, let's go
Dynamite, let's fight,
Dynamo, dynamite,
Let's go, let's fight.

Strawberry Shortcake

Strawberry shortcake,
huckleberry pie
V-I-C-T-O-R-Y
Are you with it?
Well I guess
NCE, yes, yes, yes.

Step on the Starter

Step on the starter,
Crank up the lizzy,
Come on NCE,
Let's get busy.

1, 2, 3, 4,

1, 2, 3, 4; 3, 2, 1, 4,
Who for, why for,
Who ya' gonna yell for?
(Opposing team,) no!
NCE, yes!

Locomotive

Fight, red and white team,
Fight, fight, fight.
(Repeat three times)

CLASS SCHEDULE: FIRST SEMESTER

Hr.	Mon.	Tues.	Wed.	Thurs.	Fri.
8-9					
9-10					
10-11					
11-12					
12-1					
1-2					
2-3					
3-4					
4-5					
5-6					

CLASS SCHEDULE: SECOND SEMESTER

Hr.	Mon.	Tues.	Wed.	Thurs.	Fri.
8-9					
9-10					
10-11					
11-12					
12-1					
1-2					
2-3					
3-4					
4-5					
5-6					

