Newark College of Engineering
Newark, New Jersey
Class of 57

Newark College
of Engineering

Nucleus
The Class of 1957, as engineering graduates, will enter a modern world of scientific and technological progress. In the presentation of its Nucleus, the editors have tried to introduce this spirit to show that N. C. E. not only is maintaining its status as a foremost engineering college but is meeting the challenge of the times.

It is doing so in many ways. Its present multi-million dollar building and expansion program will provide facilities for ever-increasing enrollment. The college's progressive curriculum of scientific fundamentals teamed with the concepts of human relations affords a well-rounded as well as an up-to-date technical education to its students. But, above all, N. C. E. is showing a true recognition of future responsibilities toward an advancing nation.

The success and achievements of any institution of learning can be attributed in a great degree to the foresight, determination, and courage of its leaders. Among them, Newark College of Engineering has been honored to have as president for twenty-seven years a dedicated man of prodigious energy and wide imagination, a man who saw the rising need for engineering in our progressive world—the late Dr. Allan R. Cullimore.

With his passing, Newark College of Engineering and the engineering profession have lost a faithful leader and a respected friend. His memory and his message will remain long cherished by all who admire courageous leadership and humane spirit.

We, the Class of 1957, dedicate our yearbook to a great educator and humanitarian—Allan R. Cullimore.
Dr. Allan R. Cullimore
About the time that your editor invited me to write a message for the 1957 NUCLEUS, I received an invitation from the President of the New Jersey Bell Telephone Company to attend a preview of that fascinating film "Our Mr. Sun." A few days later, it appeared on television as a featured presentation; and, if you saw it, as I hope you did, you undoubtedly were impressed not only by how much we know about the sun and what it means to life on this earth, but also by the challenges that face us and the progress which still can be made if we are ingenious enough in the years ahead to harness the energy of the sun. Even a casual consideration of the possibilities in that direction suggests progress that could also be made in many other areas.

From time to time, in addressing various civic and educational groups, I have stated that, in my opinion, the greatest asset which this country has is its young people, such as you who will be graduated from Newark College of Engineering this June, and I have emphasized over and over again the necessity of providing educational opportunities for our young people so that they may develop their capabilities to the fullest.

One of our large corporations uses the slogan, "Progress is our most important product." I am inclined to agree with that slogan and do not find it inconsistent with my statement that the greatest asset which our country has is our young people, because the progress which has been made, and which will continue to be made, is possible only if you and other young people like you, both now and in the future, are given educational opportunities which will permit you to develop your God-given abilities to the maximum.

The future well-being of this country, and of the world, as a matter of fact, depends on progress. We cannot afford to stand still, whether it be in science, technology, human relations, literature, or international law.

So I want to take this opportunity to commend you for making "Progress" the theme of your yearbook and to congratulate you on completing this milestone in your education. But do not stop now. You must continue to learn and to grow. I wish for each of you an inquiring mind, together with the initiative, courage, and opportunities to develop your individual talents to the maximum so that progress may be made in the years ahead in all fields with which you will come in contact and that in so doing, you will find great satisfaction in having made the most of your talents for the good of your family, your community, your nation, and the world.

November 29, 1956
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Miss Leone
For certain reasons, some explainable, others not, atoms and acids, bases and by-products, Dalton and Davy, halogens and hydrocarbons—all these and many more seemed either to repel us or to inspire us to make the early decision of choosing the Chemical Engineering Department for our professional work. To this latter group, the work in the Chemistry Department certainly provided a necessary background. To those who finally chose one of the other three professional departments, it has become increasingly evident that our knowledge of chemistry has been the basis for our understanding of many phenomena encountered in other technical fields.

True, we cannot hope to understand fully every-thing in the literature of all branches of science. Also, we find that the more we learn, the more fully we realize how little we know. But it would certainly put us at a disadvantage, regardless of what field we finally chose, to be totally ignorant of the fundamentals of chemistry.

In retrospect, we salute the men of the Chemistry Department—the patient professors and the sometimes less-patient but always helpful stockroom men. Some of us will design plants and processes; others of us will never again use a test tube, but our thanks go out to you one and all, for the high standards which you required of us cannot help preparing us for our future work.
Technical drawing has been called the language of the engineer. A verbal description of a complicated machine would be almost impossible to formulate and absolutely impossible to comprehend wherein a drawing makes it a simple task. The Department of Engineering Drawing teaches this language; it is the first real engineering training that we received at NCE. The course ranged from sketching to descriptive geometry, and no one can deny that some portion of it will be useful and essential in his engineering career. The frequent lettering assignments help change many unintelligible scrawls into calligraphic masterpieces.
Humanities play an important role in the life of an engineering student as well as in a graduate engineer's. This fact has undoubtedly been strongly impressed upon us by "the crusaders of liberal arts"—the English Department. Since an engineer must write technical reports and speak frequently at professional meetings, his progress in his profession depends, to a large extent, upon his ability to express himself clearly and concisely to his associates. Through its varied courses ranging from Freshman English to Engineering Report Writing, these qualities have been stressed and developed by the English Department.
Those of us who entered N.C.E. directly from high school found first year mathematics to be mostly a review. However, returning veterans and those who had first worked a few years saw in this course an excellent means whereby they could oil up rusty brain hinges and get back in the swing of things academic. In any case, our early problem work in mathematics started us on the path of analytical thinking.

When we met with calculus in the second year, the race began... the race, that is, between the instructors and the calendar. Happily, that race is usually won by the students. In the meantime, if you could not keep up with things, you kept hoping—hoping that the pace would slow down. It didn't; so you couldn't.

And now as we look back, our last two years also behind us, we appreciate our having been taught this language of science. Mathematics has not been just another subject to master. It has been a discipline which will help cultivate our professional growth and widen our horizons in the years to come.

We hail then our Mathematics Department—staffed by some of the finest men in the profession—a vital and dynamic department to which we offer our humble thanks.
Through the various lectures and conference discussions, this department has given the background in human relations which is essential to the professional progress of the engineer in our industrial society as well as in the community. From the analysis of the objectives and requirements of an engineering education in Principles of Engineering to the conference leadership of Staff Control, many hours were spent by this department's instructors converting us from "slide-rule robots" to professional leaders of our society.
The Department of Physics has provided us with the basic technical background which is necessary to every engineer. Emphasis has been placed on fundamental principles from the FBD to the stress-strain diagram. Will we ever forget running model trains around the lab or looking at defraction gratings in the darkroom? Physics is the basis of almost all science and without it our degrees, even if we could receive them, would be worthless.
The function of the R.O.T.C. is to provide sufficient practical and theoretical instruction to us, as students, so that as officers in the Air Force organization we will have the necessary qualities of leadership. In addition to their engineering education, the "boys in blue", so prominent around the campus, can remember the basic days, summer camp, and the "leadership lab."
Message from the Class Adviser

It was a rewarding experience watching the members of the Class of 1957 function in the many phases of college life. They applied themselves to the task of a demanding curriculum. Problems in student government and various organizations were dealt with in a logical manner. Social activities were arranged, despite the lack of time and other difficulties. On the athletic scene, a fair share of victories were won, although in many cases, they competed at a disadvantage. With all this, time was found to meet in church each week to kneel and pray.

These observations have led to the conclusion that grave concern for the youth of today is needless. Any system that can produce such men need not fear the future. The leaders of tomorrow will be God-fearing, clear thinking men.

To each and every one of you I wish health and happiness. May success reward all your endeavors.
Professor Robert F. Swanson, in his role as Director of Student Activities, has been of inestimable help in making the functioning of student activities a possibility in the hectic pace of NCE. Every senior who has been responsible for the planning of some project, sooner or later, has availed himself of the services of this office. Eighty-five student organizations existed at the last tally, each of them requiring rooms for meetings, evenings for non-conflicting social events, and secretarial facilities. Only by the efficient coordination and active participation of Professor Swanson has a smoothly running extra-curricular program been accomplished.
Ruth Kelly

Secretary to Director of Student Activities

Ruth Kelly, the darling of the students, has earned her place in the hearts of us all by her unceasing work coupled with her cheerful smile. It is worthwhile taking on some troublesome task if only because of the way Ruth takes so much of the burden off your shoulders.

We, the Class of 1957, wish to thank our "personal secretary" for all she has done for us.
In the four years or more we have been at NCE, many changes have occurred. Actually, these were not just "changes", for they were all moves in the same direction. "Progress" is the single word which defines these moves, and even a little thought will reveal the many threads of progress which are woven into NCE.

Most obvious to the casual observer has been the erection work of Cullimore Hall. We, of course, will not see it completed in time to be of direct value to us, but buildings help in establishing a college's reputation. We know we will achieve some benefit from it.
Our individual progress has been a development due to numerous causes. Mass brain-washing in the first two years probably is more easily remembered than English composition classes.

But can we ever forget leaving so many "hard gotten" dollars at the book store?
Our dates glamourize our dances.

Informal dances were wonderful for meeting fellow students on a "friend" basis.

And ever lovin' beer.

This picture, so faithfully reproduced in other yearbooks, was taken in 1953—our class at the IFC Frosh Blowout.
But progress also meant getting books from the library, then going home, and wading through them.

There were always breaks from the strain though, just as you were about to break.
For along would come Christmas,

and the Glee Club's yearly triumph or near triumph.
Right down to the final step—the interviews, then a last look around before we leave as graduates.
ACTIVITIES
The Student Council is primarily organized to administer the student activities program. Money received from the purchases of student activities cards is allocated to the various organizations. Representatives of ten organizations and five elected officers make up the council. Each class, the Athletic Association, the Inter-Fraternity Council, the Honor Societies Council, the Professional Societies Council, the Bureau of Publications, and the Inter-Club Council are represented.

Among the objectives of the Student Council is the bolstering of the various member organizations to make them more effective and efficient. Worthwhile and active groups which are based on service to the school and student body are continually striven for.
Freshman Class Council

President
David Bannon

Vice President
Malcolm Condon

Recording Secretary
Mary Kay Scott

Corresponding Secretary
Alfred Salamon

Treasurer
Thomas Bott

Adviser
Dr. Herman A. Estrin

Sophomore Class Council

President
Edward Kondracki

Vice President
John Floren

Recording Secretary
Elmer Bodnar

Corresponding Secretary
William Castle

Treasurer
Mario Gomes

Adviser
Professor Robert G. Poetz

Junior Class Council

President
Robert Allen

Vice President
Don Macaluso

Recording Secretary
Frank Carrea

Corresponding Secretary
James Boyle

Treasurer
Lee McClellan

Adviser
Mr. Paul Hausser
One of our newest student organizations, the Bureau of Publications was organized to represent all our publications at the Student Council meetings. Mutual problems concerning organization, circulation, and advertising are discussed and possible solutions considered. Through the bureau a uniform high standard of quality is the goal toward which each publication strives.

President
Ian Durand

Adviser
Mr. Richard D. Blanchard
Nucleus, 1957, consists of a staff originally selected by the Class Council to produce a publication devoted to the Class of 1957. It endeavors to give each senior a place in the yearbook no matter how active he may have been and to give his school years a permanent record, omitting only the quizzes and low grades. We thank those who have cooperated in the achievement of our goal.

Yearbook Adviser
DR. HERMAN A. ESTRIN

Our sincere appreciation must be given to Dr. Estrin, an adviser who really gave needed advice, as well as his time and energy, in all facets of the yearbook publication. Dr. Estrin, in addition to his professional duties, is an adviser to at least eight campus organizations, and only he knows how many off campus; yet all receive his unstinting efforts.
Averaging about a hundred man-hours of work per issue, *The Technician* had a year of unprecedented success, both financial and journalistic. For the first time in several years, *The Technician* ended the school year in the black, with balanced books and without the previously traditional printers bill hanging over its head. Journalistically, the paper can point with pride to one of its editorials which was reprinted on the editorial pages of the *Newark Evening News*, and cited as an example to end the fears of persons worrying about the political inclinations of college students.

*The Technician* increased its range of coverage and has achieved a better balance of material contents and has, thereby, become more strongly integrated into student life. The paper has developed a system of operational stability that places it on solid foundations.
The "Cadet" is an AFROTC newspaper, which brings information to the cadets at the college. In the past few years, the newspaper has developed into an informative and expectantly awaited publication. It contains articles on the role of the Air Force in our modern world and gives the basic cadets a preview of what their summer camp obligations will be at the base to which they will be assigned.

Adviser
Captain Stanley K. Haggerty

The Orbit is the newly-formed student engineering magazine of NCE. It replaces the Et Cetera, literary magazine which commanded little interest and had less support. The new magazine is a "slick" publication containing technical and informative articles about subjects which might interest its readers and information about the professional and honor societies at the college.

It was designed to give the technological-minded student a place to exhibit his literary inclinations, as well as to be an informative organ for the student body. It differs from The Technician in that the newspaper disseminates timely information, while the magazine is concerned with material which is interesting, but not in need of immediate publication.

Because The Orbit is still new, its publications schedule and modus operandus are still on an "off the cuff" basis. Problems are met as they arise. The editors expect that within a year or two the publication will be a well-organized quarterly magazine.

The Orbit

Editor-in-Chief
Bruce Jackson

Associate Editor
Dean Staudt

Advisers
Professor George B. Thom
Dr. Herman Estrin
Professor John Shawcross
"Sam's Song" is the bi-semester newsletter of the Newark College of Engineering student chapter of the Society for the Advancement of Management.

Dedicated to informing the NCE student body about current industrial engineering practices, much of the paper is devoted to reporting material presented to the Parent Chapter of S.A.M. Here, at general meetings, top men in a variety of fields allied with industrial engineering present problems they have encountered, the attacks they have applied, and the results they have obtained.

Articles are solicited from key men in the industrial engineering profession. A series of articles about the professors of the Management Department is currently featured along with a chess column, a gossip column, a few jokes, and a puzzle section. The ancestor of "Sam's Song" was a single sheet of paper containing an appeal for membership in the Student Chapter of S.A.M. In the fall semester of 1955, the immediate predecessor of "Sam's Song" was published and, for want of a better title, was dubbed "The Nameless". A "name the paper" contest held in the 1955-56 Management Department Sections produced the name "Sam's Song".

Editor
Ellery Block

Associate Editor
Charles Maguire

Adviser
Professor Frank K. McGowan
"Steam Lines"

"Steam Lines" is the College's ASME newspaper. Issues of the paper are published at various times during the school year with information concerning the Society's activities and news of forthcoming events.

Editor
John Alai

Circulation Manager
Donald Stevens

The
"Surveyor"

The student chapter of the American Society of Civil Engineers began publishing the "Surveyor" in May, 1941, and has continued to do so except for a period during the war years. The staff consists of one or two students who, with the help of a faculty adviser, coordinate the articles written by the students in the Civil Engineering Department. These articles cover student chapter activities such as field trips, monthly meetings of ASCE, social affairs, and intra-departmental sports.

Although the paper is published twice per semester, it will soon become a monthly publication and will continue to be a source of information and amusement for the civil engineering students.

Editor
Robert Carle

Faculty Adviser
Prof. Richard Mangasarian

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The play presented this year was "The Philadelphia Story." Everyone looks forward to the Kampus Kapers show as one of the outstanding events of the college year.

In the last few years, the Kampus Kapers Club has become an active and enthusiastic organization. The members of this group give much of their limited spare time to make their yearly show a success.

President
Gerald Hess

Vice President
Robert O'Hare

Treasurer
Edwina Chesky

Secretary
Jacqueline Jones

Art Director
James Hoffman

Music Director
Edwin Goldberg

Advisers
Professor Edward F. Johnson
Mr. Paul C. Hauser
Mr. Vincent N. Porcelli

Now see here, Sue.
Oh, Bunny.

'Did you ever hear the one about . . .

'ow about ah spot ah tay?

Southern belles and Indians.
Alpha Phi Omega

After four years at NCE, Alpha Phi Omega, has set an enviable record for usefulness. This organization has shown by its actions what the word service means. Maintaining the Student Services Booth and the APO Book Exchange; procuring tickets for an information about current Broadway shows, sports events, concerts, and television shows; ushering at Kampus Kapers and at the Newark Science Fair—these are only a few of the many services rendered by APO.

President
James Murphy
1st Vice President
John Drennan
Treasurer
Al Hollingsworth
Secretary
Garret Westerhoff
Historian
Louis Scirrotto
Sergeant at Arms
John Golembeski
Adviser
Professor Monroe R. Weller

Mrs. Griffith of the Griffith Music Foundation presents tickets for the concerts to John Drennan of APO, as Dr. Estrin looks on.

Bridge Club

The Bridge Club has had another successful year at NCE. The Commons, as in years past, is the mecca of bridge champions and aspirants. Throughout the day, the “battle of the pasteboards” rages.

Duplicate bridge tournaments are held throughout the year in which the winners and runners-up receive national master points. The highlight of the year is the participation in the National Inter-Collegiate Bridge Tournament.

President
Arthur Minster
Vice President
Eugene Robbins
Secretary-Treasurer
Walter Dobley, Jr.
Adviser
Professor Jerome J. Salamone
Christian Fellowship is the club which has engaged in an active program of Bible study, prayer, and fellowship of its members. This club acts and stands for a testimony to the truth of God's word, the Bible. The group is affiliated with the Inter-Varsity Christian Fellowship, an organization having chapters in over five hundred colleges in the United States and in foreign countries.

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Something about chess, perhaps the scientific nature of it, attracts an engineer. At almost any hour of the day one can find an eager opponent. The interminable practice gives members the fine edge they need when they enter intercollegiate competition.

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Unsurpassed among the numerous on-campus activities is the enterprising Dance Club. Dancing as a social attribute is of undeniable importance to the engineering student. The club makes the learning as painless as possible by giving lessons before the dances are held. Then, with the harsh gym lights replaced by a minimum of red and blue bulbs, the dances begin. Music ranges from recordings to the stupendous Kampus Kapers Kollegiates and assures lonely engineers of a multitude of partners for their terpsichorean gambols. Girls from nearby colleges, hospitals, and the telephone company return week after week—some to find dates for the Senior Ball, some to find mates for life, and some to find nothing but hope. If nothing else, the Dance Club promises an enjoyable evening to those who attend.
President
Charles Maguire

Vice President
William Hanley

Secretary
Francis Sinnott

Treasurer
Edward Gillen

Adviser
Professor Robert F. Swanson

Officers and adviser of Dance Club.

A familiar scene on Friday night — Dance Club in action.
Glee Club

Professor Frederick Fernsler has directed our Glee Club through another successful year. The club does not require its members to be outstanding vocalists, for it would then cease to exist. However, it seeks those who have a sincere interest in group singing. Although the Christmas Concert was first given only four years ago, it has already become a traditional way to herald the holiday season at NCE.

President
Richard Brooks

Vice President
Thomas Plinio

Secretary-Treasurer
B. Donald Woloshyn

Adviser
Professor Frederick P. Fernsler

International Relations Club

Members of this organization form NCE's battery of international affairs experts. Bi-monthly the club meets so that its members have the opportunity to discuss and analyze current world happenings.

Not solely an NCE activity, it is a member club of the American Association of International Relations Clubs. Interclub conferences and visits to the United Nations Building in New York are valuable adjuncts to its activities, since they provide a broader outlook on the world today.

President
William Krouse

Vice President
John Mytryshyn

Secretary-Treasurer
David Cventzel

Adviser
Professor Nelson C. Keables
Motor Club

Since its inception in the spring of 1955, the NCE Motor Club has become one of the most active clubs on campus. It boasts of nearly forty members. The activities encompass everything automotive, the members attending races and rallies that are sometimes held three hundred miles from the college. In addition to having a full-sized sports car engine on display on Visitor’s Day, the club exhibited automobile parts which had failed and offered instruction as to the maintenance which had been neglected. Service to motorists in distress is an integral part of the club. It aided over two hundred fifty drivers in the past year.

President
George Freund

Vice President
Herbert Kehoe

Treasurer
Harold Nightingale

Secretary
Robert Schuler

Adviser
Professor Lawrence J. Schmerzler

Mathematics Club

The Mathematics Club was organized in the spring of 1956, with Charles Nugaris ’59 as its first president.

The purpose of the club is to provide its members with a greater knowledge of the practical side of mathematics—its origin, its development, and the role it plays in our present-day, highly scientific industrial civilization. This goal is accomplished by bringing in speakers from industry, by individual projects on the part of the members, and by periodic talks from the esteemed club adviser, Dr. Edward C. Molina.

President
Charles Nugaris

Vice President
Andrew Murray

Recording Secretary
Joseph O’Rourke

Corresponding Secretary
John Floren

Treasurer
John Glosek

Adviser
Dr. Edward C. Molina
The Newman Club was organized for the enrichment of the spiritual and temporal lives of the Catholic students at NCE. This goal is attained by a vigorous schedule of intellectual and religious activities. The club has many guest speakers and interclub discussions and its annual Communion breakfast has taken its place on the calendar of important events at NCE.

President
John Fagan
Vice President
Thomas Fuccello
Corresponding Secretary
Victor Furtado
Recording Secretary
Robert O'Hare
Treasurer
Donald McNaboe
Adviser
Professor Joseph M. Fitzgerald

Photography Club

The Photography Club aims to develop the technique and the skill of photography. Field trips are held to various points of interest relating to photography. Meetings are held for the exchange of information and for a general discussion of new equipment and methods.

President
William Smith
Vice President
Al Hollingsworth

The club in action!
Radio Club

The Radio Club has many interesting activities for its members. It sponsors meetings with discussion periods for an exchange of new ideas, speakers, and practical experience with the transmitter in the electrical laboratory. Recently, the club has established a training program whereby new members can prepare themselves for a ham operator's license.

President
John Golombeski

Secretary-Treasurer
Robert Schuler

Chief Operator
Cliff Siepel

Advisor
Dr. Frederick A. Russell

Rod and Gun Club

Fishing, hunting, and archery are the incentives, and conservation projects are the by-products of the active and popular Rod and Gun Club. A lending library of sports equipment enables members to take part in outdoor activities without their making a tremendous investment. In February the gourmets of the college gather for the Annual Venison Dinner held by the club, from which, incidentally, no one has ever left hungry.

President
James Hoffman

Vice President
Vincent Opalewski

Secretary
Alex Wagnecz

Treasurer
Ronald Thompson
**Ski Club**

When, on an early Wednesday morning, snow comes filtering through the door of Room 312C, you can deduce that the Ski Club is planning another excursion to a nearby winter resort. During the midsemester vacation the club members move en masse to the mountains of northern New Hampshire for a holiday of schussing down snow-swept slopes.

**President**
Charles Lombardi

**Vice President**
Robert Schuler

**Secretary**
Ellery Block

**Treasurer**
William Bock

**Adviser**
Professor Jerome L. Polaner

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**Table Tennis Team Club**

The Table Tennis Team is organized as both a team and a club in order that more students may participate. All students may use the facilities of the club.

A tournament in which all students may participate is conducted under the auspices of the Club. The team takes part in intercollegiate competition.

**President**
John Alai

**Vice President**
Ronald Freese

**Secretary-Treasurer**
Robert Lynette

**Adviser**
Mr. David H. Mangnall
For those men interested in yachting as well as in the art of boat building and racing, the Yacht Club was organized to provide the opportunity to sail. The club is a member of the Athletic Association and hopes that it will shortly be participating in intercollegiate races.

Trips to Barnegat Bay and the City Island Yacht Club have so far been the central activities of the club. To complete the program, lecturers are periodically invited to club meetings.

Commodore
Ted Kobylarz

Vice Commodore
Victor Furtado

Secretary
Don McNaboe

Treasurer
John Golembeski

Adviser
Professor Robert F. Swanson

"Swinging along with the breeze."
For three years the Honor Societies Council has been proving its value as an adjunct to the student activities organizations. By examining school records to find those students scholastically eligible to be admitted to the individual honor societies, HSC has eliminated needless repetition of record searches by every society.

A major factor in the success of the Honor Societies Council has been the establishment of a joint banquet to which initiates for all societies are invited. A more prominent speaker can be enlisted now.

This year the Council has spear-headed a project to put standard society letters on rolls for the automatic typewriter. Secretarial needs are reduced, and two societies can share the cost of the roll.

The societies generally have certain scholastic requirements for eligibility, but all try to instill active participation in other activities, both in school and out, as the real goal. Fuller lives have resulted for members, with benefits that will be accruing twenty years from now.
The New Jersey Gamma Chapter of Tau Beta Pi, the national honorary engineering fraternity, was established at Newark College of Engineering in 1941. The purpose of the society is to mark in a fitting manner those men, both graduates and undergraduates, who have conferred honor upon their Alma Mater by outstanding achievement in the field of engineering and by exemplary character. The chapter conducts a number of projects designed to be of benefit to the school. Included in these are contributions to the school library, tutoring for juniors and seniors who have academic difficulties, and a voluntary program through which instructors may be rated in teaching effectiveness by their students.
Phi Eta Sigma, honor society for freshmen, recognizes superior academic achievement among freshmen and endeavors to maintain high standards of moral living and service among its members. Included in Phi Eta Sigma's various services to the student body are a tutoring service for freshmen and sophomores and a guided tour of the school on orientation day.

Eighteen members of the Class of 1957 are members of Phi Eta Sigma.
The Newark Circle of Omicron Kappa, a leadership honor society for men, was installed at Newark College of Engineering on May 6, 1950. It recognizes students on the basis of character, scholarship, and extracurricular activities. At present there are fourteen active student members and four active faculty members. The society sponsors an annual leadership conference, conducts tutoring classes in "Robert's Rules of Order," and holds a "Faculty-Student Suggestion Session."

President
Orin Sharp

Vice President
Reinhard Baars

Secretary
Professor Edward Miller

Treasurer
Roy Halle

Adviser
Dean William Hazell, Jr.
Eta Kappa Nu was founded in 1904 at the University of Illinois by a group headed by Maurice L. Carr. The aims and principles established by these men remain as the guides for this organization.

While the qualifications for membership distinctly stimulate and reward high scholarship, Eta Kappa Nu aims to assist its members throughout their lives in becoming better men in their chosen profession. Also, the society strives to have its members assist fellow students in improving the standards of the electrical engineering profession.
The Newark Tau Theta Chapter of Pi Tau Sigma, the national honorary mechanical engineering fraternity, was formally installed at Newark College of Engineering on May 25, 1951. It recognizes students on the basis of scholarship, engineering ability, personality, and activities. Initiates perform a worth-while service when, as an entrance duty, they construct a working model to be used as a teaching aid by the Mechanical Engineering Department.

Presently the society is preparing to sponsor a Sophomore Technical Paper contest.
Established only last year, Sigma Tau Sigma has spent progressively the interim becoming a recognized and revered society. ETE filled a basic need in that it gave a means for recognizing high scholarship and leadership on the part of Civil Engineering students.
The Newark Cast of Alpha Psi Omega, national dramatic fraternity, was established in 1955 to recognize outstanding work by those students who have contributed to dramatic arts at Newark College of Engineering. Not only those who appear in performances but also those who participate in directional, lighting, managerial, orchestral, and scenic activities are eligible for membership.

Operating as an adviser for Kampus Kapers Club, Alpha Psi Omega has aided in organizing production and in developing theatrical interests.
The Arnold Air Society is a relatively new national honorary group, having been formed only seven years ago. Named after the late General "Hap" Arnold, the society has adopted for its motto: "The warrior who cultivates his mind polishes his arms."

By fostering new Air Force Squadrons, showing Air Force films at the college, and helping cadets who are in need of additional training and assistance, the society hopes to achieve its goal of furthering the cadets' studies and training in leadership.

A colorful event, the formal pledging ceremony for Newark College of Engineering's Highlander Squadron, is held in the armory. The trip to the national conclave is also a highlight of the year's calendar.
Pi Delta Epsilon, the collegiate honorary journalistic society, recognizes superior achievement in the field of student publications. The code of Pi Delta Epsilon encourages its members to be intellectual, honest, and accurate in all their literary endeavors. Good taste, freedom of thought, and responsibility are inherent in membership in the society.

Besides acting as advisers for all student publications and sponsoring writing contests, Pi Delta Epsilon has been active during the past year in reorganizing the Bureau of Publications.

To be eligible for membership in Pi Delta Epsilon a student must have served at least two years on a student publication or have distinguished himself by exceptional service in an executive capacity on a publication.

President
Ian Durand
Vice President
William Hanley
Secretary
Victor Furtado
Adviser
Dr. Herman A. Estrin
Organized to coordinate the activities of the seven professional societies here at NCE, the Professional Societies Council is composed of the presidents of each of the societies. The Council endeavors to present an integrated program, free from conflicting events, meetings, and projects.

Another important function of the PSC is professional society representation on our Student Council.
The American Chemical Society offers to students of the chemical profession the opportunity of broadening 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 those of extending the range of their acquaintances with men in the profession. Through plant trips, films, and the professional publications, an insight of the conditions under which the chemical industry operates is gained for future application.

Activities include meetings, guest speakers, and an annual convention of the student affiliate chapters in the North Jersey Section, representing seven colleges in the area. These events provide an atmosphere of fellowship among members and promote interest beyond academic subjects.
The student chapter of the American Institute of Chemical Engineers at Newark College of Engineering participates with six colleges in the Metropolitan Conference. Each year the chapter arranges a four-day plant trip in conjunction with course work in plant design.

In addition to providing lecturers and films from industry, AIChE sponsors a student-paper contest, the paper to cover some problems in chemical engineering.

President
John J. Ehrler

Vice President
Joseph G. Free

Secretary
Edward J. Boruszkowski

Treasurer
Raymond Rackauskas

Adviser
Dr. Jerome J. Salamone

American Institute of Chemical Engineers
Since 1926 the student branch of the A.I.E.E. at Newark College of Engineering has successfully pursued its aim to broaden the scope of the electrical engineering student by introducing him to all fields of his profession.

Through prominent speakers from industry, the showing of films on new developments, and inspection trips to leading industrial plants, members are introduced to practical problems in their field.

Each year the A.I.E.E. sponsors a student paper contest. The winner of the branch contest is eligible to compete in the district contest. The district winner receives an all expense-paid trip to the summer A.I.E.E. convention.

Benefits of student membership include a subscription to Electrical Engineering, the use of the Engineering Societies Library and its services for obtaining information, and the opportunity to become an Associate Member upon graduation.
Every man following a chosen profession hopes to obtain professional recognition. To do so, it is necessary for a civil engineer to obtain more than a technical background; he must develop a feeling of loyalty and obligation to the profession. Such feelings are brought out by association with, and service in the organizations of his profession. The student chapter of the American Society of Civil Engineers makes a definite effort to instill these feelings in its members. The organization also assures constant contact with technical progress in the civil engineering field.

The monthly meetings of the chapter provide an opportunity for the students to hear outside speakers on technical or professional subjects and to compare impressions on these subjects. Movies and slides presented at meetings give practical understanding of engineering projects, and are sometimes augmented by field trips to points of engineering interest. Social events are a part of chapter activities; and dinners, dances, picnics, intra-section sporting contests, and parties are held yearly whenever feasible.
The student chapter of the A.S.M.E. at Newark College of Engineering has had a very successful year under the guidance of Professor Weinstein, faculty adviser. A varied program consisting of speakers from industry, plant visitations and timely motion pictures was presented for the members. Joel Schnur, David Cventzel, and Brian Birch were instrumental in setting up the activities for the chapter.

At the present time the membership is eagerly anticipating the Metropolitan Section Conference to be held at Rutgers University in the spring. The NCE chapter will once again be well represented.

The present officers would like to wish their successors all the cooperation and success that we enjoyed.

The Evening Division of the A.S.M.E. has been active in promoting participation in contests for technical papers, field trips, social activities, informal seminars, presentation of movies on technical subjects, and publication of a newsletter.

The participation of the Evening Mechanical Engineering Students to the Society was 100% in 1955 and continues to be very high. The Undergraduate Student Award was won for two consecutive years by evening students, and there is indication that the evening group intends to compete for other awards.

The A.S.M.E. has served to bring together people with common interests. In many cases a problem encountered at work has been discussed by a group of students, each contributing opinions based on many years of experience.

The showing of the movies on technical subjects has served to complement our studies and has broadened our views on many subjects, while the publication of the newsletter has served to improve communication of departmental news and to stimulate interest in the activities of the society.

The participation of the evening division in so many activities proves that the evening students are aware of the spirit of cooperation that characterizes the modern engineer.
The Institute of Radio Engineers was organized in 1912 to advance the art and science of radio communication and to promote the professional welfare of engineers engaged therein. The activities of the IRE have grown with the industry and embrace all branches of electrical communications and the related fields. The NCE student branch of the IRE strives to acquaint the student members with the activities of the IRE early in the student's career.

Its activities include talks and demonstrations given by men experienced in various fields of communications and electronics. Some of the topics discussed during the 1956-1957 academic year were analog computers, microwave communications, sweeping oscillator techniques, electronic counters, and electronic automotive engine analysis.

To enable the student to see first hand how industry functions and what duties engineers perform, the IRE has initiated field trips to the RCA Laboratory, Bell Laboratories, Western Electric, and the Radio Engineer Show held in the New York Coliseum.

All student members receive the Proceedings of the IRE, the official publication of the IRE, containing articles devoted to the latest developments in the field of communications and electronics. In addition, students receive the Student Quarterly.
The Society for the Advancement of Management renewed its charter in 1947, after which time it has grown rapidly. Membership in SAM is open to students in any professional department.

SAM offers students pertinent information on the general topics of industrial engineering and management plus the opportunity to become acquainted with the field. Plant visits are arranged by the student chapter, and interesting films are made available for student meetings.

Students are encouraged to participate in the activities of the parent organization, the North Jersey Chapter of SAM, the recognized professional society for industrial engineers and managers.

President
Charles Maguire

Vice President
Peter Spaak

Recording Secretary
Herrald Schunk

Corresponding Secretary
Edmund Ray

Treasurer
Eugene Zmyj
The need for a coordinating organization to effect the performance of the vital task of bringing together the collegiate-fraternal ideas and actions of our fraternal groups, the faculty, and our Student Council gave birth to the Interfraternity Council. The council which is composed of two representatives from each of the seven member fraternities forms a common fraternity policy.

A traditional IFC Frosh Blowout was instituted to help acquaint the new freshmen with their classmates and with the advantages of fraternity life.
Fellowship is a spirit that is manifest at Alpha Phi Delta. At the card table, around the bar, or off in a corner at a tutoring session—fellowship is reflected.

Of course the brothers of AΦΔ don’t keep their spirit locked up at 197 New Street. A favorite spot is the Dance Club on Friday nights, and the parties afterward are relished by all the fraternity’s gals and pals.

Their fellowship is evident each year when the brothers treat a group of local orphans to a Christmas party. To highlight the fun-filled calendar, several gala affairs are sponsored throughout the year.

The boys of AΦΔ are an integral part of life at NCE. They always contribute much more than spirit alone to intramural sports and other school activities.

To stimulate the better qualities in its members, Alpha Phi Delta awards scholarship and activity keys annually.
Alpha Sigma Mu is the newest social fraternity to be established at NCE. It is a fraternity for veterans of the Armed Forces and places being a veteran as the only prerequisite for membership. It was in the spring of 1954 that a group of vets decided to form their own fraternity; and from this small group, Alpha Sigma Mu has grown to be the largest social fraternity at NCE.

The fraternity strives to acquaint the new member with academic life again and to supplement his studies with social activity. The fraternity provides an opportunity for men of the same age group and experience to discuss their school work and hash over their service experiences. Through social activities which include Fall and Spring picnics, bowling parties, an annual Spring dinner-dance, a spirit of comradeship has continued to grow among the members and alumni of the fraternity.

Upon leaving school, the members are kept in close contact with the fraternity activities through the fraternity newspaper, Alpha Sigma Mews, which is published monthly.

The "Wheels"

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Corresponding Secretary
Wayne Clements

House Chairman
Walt Decker

Social Chairman
Frank Ortman

Advisor
Professor Robert G. Poetz
You should have seen them driving out.

Continuing to expand its activities, Phi Beta Tau has made a large mark in school sports and activities. An orphanage party at Christmas filled many hours with a feeling of helpfulness, and the annual Stokes Forest outing made for many happy times.

Besides the full social life, the scholastic record of the fraternity is well above the school average.

In keeping with the tradition it was founded on, the fraternity continues to hold the principles of non-sectarianism as its ideal and guiding light; knowing these principles make the foundation for an understanding of life in the world we will enter.
Recipe for a fraternity—take 38 active brothers and add 13 pledges. Mix well. At intervals blend in various social events such as the Rose Ball, the Founder’s Day Dinner, the hayride, the square dance, and an undefined number of beer parties. Allow to simmer in a friendly atmosphere. Serve with generous helpings of community services such as Christmas and Easter parties for orphan children. The comments from those who have partaken of the end product can only be—Beta Alpha Chapter of Pi Kappa Phi.

Archon
Ralph P. Pochank

Treasurer
Victor E. Oravetz

Secretary
Ted Laffey

Warden
John R. Fagan

Historian
Henry W. Ott

Chaplain
Burley Melton

Advisers
Professor George C. Keeffe
Professor Joseph M. Fitzgerald

"Ain’t we got fun?"
Under the able leadership of Sage Charles H. Covey, the Alpha Mu Chapter of Sigma Pi Fraternity has found the past school year to be a prosperous one. The close cooperation between the actives and the alumni was the main reason that such annual events as the Orchid Ball and the Founder's Day Banquets were successful.

The present membership consists of thirty-two brothers and fifteen pledges. Brother Peter Huebner as social chairman scheduled many social events which were supported by the alumni as well as the members of the active chapter. This growing interest shown by alumni is proving to be a most important part of the success of the fraternity, and this interest was stimulated by the monthly printing and mailing of the chapter newspaper The Bat. Our thanks and congratulations are directed to its staff.

The house committee under the direction of Brother Martin Rissland brought a new look to the fraternity as the brothers and pledges responded to its needs. A complete sound system is only an example of the additions which have been made. Many summer projects have been planned to contribute to the appearance of the house, and the completion of these will prove to be a good stepping stone for an even bigger and better year throughout 1957-1958.

As the Alpha Mu Chapter of Sigma Pi Fraternity continues to grow, the efforts and contributions of the members of the Class of 1957 will long be remembered. Good luck to the graduating class of 1957 from the men of Sigma Pi, and may your future be a successful and prosperous one.

So it was with the serfs in the feudal era.

He thought the couch was empty, and that was Marilyn.
Now firmly entrenched on Summit Place, Tau Delta Phi has been making maximum use of its facilities. From the Halloween Party to just plain picnicking, social events revolve around Tau Delta Phi.

Not only a social lion, the chapter has a tutoring service for its members. The fine points of bridge bidding are gone over with pledges again and again. Yet in the midst of a card game with a room full of kibitzers, studying goes on.

Tau Delta Phi places high on its list of ideals the importance of scholastic achievement and the participation of its members in the extra-curricular activities at NCE.
Tau Epsilon Phi Fraternity has the tripartite goal of achieving the ideals of friendship, service, and chivalry in its members. Its continually increasing membership is probably due in a large part to the active participation of the brotherhood in interfraternity activities. Tau Psi chapter is proud of its leadership record, with several of its brothers being outstanding.

Socially, Tau Epsilon Phi attempts to hold at least one event each month including dated and stag parties, picnics, a New Year's party, and a semi-annual installation.
Tau Delta Phi song fest.

Pledge shining Don Hanson's shoes.

Bobbing for apples.

Bermuda shorts party.

A winter weekend.

A deep philosophical discussion.

Joe Friedlein and date on a formal.
SPORTS
NCE’s athletic program is so diverse that every person who wishes to partake can find a place no matter what his ability.

The Athletic Association was formed to administrate the purchasing, scheduling, financing, and maintenance for each club and is supported by funds received from the Student Council.

The actual running of each club is done by the respective coach, captain, or manager. Participation in the various organizations has fluctuated somewhat, but as a general rule, NCE’s sports have a high standing in their class.
The 9-6 record amassed by Coach Fred Bauder’s cagers for the 1956-57 campaign proved once again that engineers have other talents besides math and physics. In spite of insufficient time for hard practice sessions, the “Highlanders” handled themselves superbly on the courts and came up with their best record in several seasons.

The well-rounded team included Captain Nick Huth, George Apgar, and Charlie Maguire, seniors; Wayne Webb, Harry Chin, Lou Possamai, and Ron Brookman, juniors; Marty Beyer, Ed Moran, and Stan Vernovage, sophomores; Freddie Corbalis and Mike Caffone, freshmen. The services of Huth, Apgar, and Maguire will be sorely missed by Professor Bauder next season. However, with fresh talent on the way up, NCE will continue to give a good account of itself when basketball time rolls around again.

Bill Hanley as team manager kept the school well informed of the teams progress through his frequent Technician articles.
Seasoned ballplayers indicate a highly successful 1957 season. Three and four-year men are expected to be the mainstays in the Big Red's attack after a 4-5 record last year.

Following the progress of the baseball team over the last four years, we find Professor Joseph Fitzgerald taking over the coaching helm in 1955 after the team's disastrous previous year. His first year finds a major job in organization as well as in coaching. Despite the fact that we were faced with financial problems, limited space, and time, Coach Fitzgerald managed to build the spirit and teamplay that had long been lacking. This paid off last season even though the record may not be indicative. A very good brand of baseball was played with the early season games accounting for most losses. The highlight of the season came with the pounding given to a strong Panzer club, when 13 runs were scored in the first three innings.

This season finds Mr. Paul Hausser filling in for Coach Fitzgerald, as doctorate studies now take his time. Despite the fact that his coaching ability is in demand from other sports, Mr. Hausser has the team organized within three weeks before opening day.

Looking at the possible line up for the opening game, we find five of our seniors taking the field. Co-captains Dennis Courtney, handling the catching chores, and Ralph Amato, at shortstop, will be playing their fourth year of varsity ball. Hard hitting Brian Eden in the outfield, Bob Samler, at first base, and Dom Pascucci, on the mound, round out the rest of our varsity veterans.
An invincible quintet.

Co-Captains Ralph Amato and Dennis Courtney. Last year for these veterans.

Co-Captains
Dennis Courtney
Ralph Amato

Manager
Don Hansen

Assistant Manager
Frank Krzyzowski

Acting Coach
Mr. Paul Hausser

A solid baseball organization.
The bowling team has a record of 35 won and 25 lost. It ranked in the sixth position in a nineteen-team league, composed of colleges in the Manhattan-North New Jersey Area.

Co-Captains
Dave Kennedy
Elmer Bodnar

Advisor
Professor Robert F. Swanson

Members
Frank Ortmann
Al Moore
Orin Sharp
Eugene Hauser
Lou Contaldi
Elmer Bodnar
Dave Kennedy

The Golf Club is composed of a small but avid group of golfers. Rumor has it that they can be found in the dead of winter using red balls to contrast with the snow. The team is trying to develop into a real threat in intercollegiate competition.

President
Don Meyler
The Fencing Team once again maintained its standing as one of the best in the Metropolitan Area by compiling a great record. During the last nine seasons the team has maintained a won-and-lost record better than that of any other varsity sport of NCE.

Much of the team's success can be attributed to the expert coaching of Mr. Paul Hausser. With his instructions the team was able to reap the benefits of many years of practice and work.

Being graduated this year will be Co-Captains Ron Nicholls and Ebbe Nordman. Nicholls fenced three years and maintained a well-over .850 average, going undefeated in foils this year. Ebbe Nordman, épée man, maintained the same average over a four-year period. Graduation will take Otto Nordham, sabre man, captain of the '55-'56 team and sabre champion of the '55 NCE tournament.

Along with the "Big Three" will go Pat Napolitano and Joe Free, both sabre men. These men joined the team in their junior year and added much to the strength of the team.

The outlook is good for the NCE team, as it anticipates returning the team trophy to NCE after losing it to Drew last season in the NCE Invitation Tournament. Every team on the schedule participates in this tournament, one of the highlights of the fencing season in the Metropolitan Area.
The soccer team, although its record shows only two wins, had plenty of spirit and fight, right down to the final game of the season. Coach Malcolm Simon had a big rebuilding job on his hands with only Co-Captains Jim Boyle and Marty Honan, goalie John Winnecker, and George Watts returning from the previous team. However, freshmen and sophomores came in to fill the gap in fine form. The team was weakened a bit when Winnecker was hurt early in the season, but senior Nick Huth came out for the team and played well for the remainder of the season. Since Huth and Honan are the only team members scheduled to be graduated this year, Mal’s boys can look forward to great seasons during the next few years.
The Rifle Club, a member of the National Rifle Association, consists of an AFROTC division and a regular student division. All club firing is done at the Sussex Avenue Armory. The top marksmen of the club comprise the Varsity Rifle Team, which competes with eleven other colleges in the Metropolitan Intercollegiate Rifle League.

The NCE Tennis Team was first organized in 1935 with President Van Houten, (at that time an instructor at NCE), as its first coach. The job of coaching then passed through the capable hands of Professor Jordan, Mr. Bowe, and now rests with Professor Fithian.

In spite of a traditional lack of courts and time to practice, the team has performed remarkably well, usually winning most of its matches during the playing season which lasts from April through June.

Each year sees more tennis enthusiasts coming out for practice during the fall and winter months, and the predominance of sophomore and freshman members promises to keep the team strong for several years to come.
Newark College of Engineering Graduates

1925
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
250
300
350
400

SENIORS
Little need be said of the activities of the Senior Class Council for we have lived out the evidence. Dances, hayrides, Class Night, the Senior Ball, and a multitude of other functions have originated here. They have pushed the collection of class dues so that we could spend the money wisely, carefully, and in some cases whimsically, but always for the benefit of the class.
CHEMICAL ENGINEERING
The course in Chemical Engineering is designed to give the student a thorough background in the fundamental sciences, engineering subjects, and the necessary cultural subjects. It prepares the student for a professional career in chemical engineering in the process industries involving the development of practices in chemical manufacture and related operations, the design and operation of plants, as well as chemical and engineering application in non-chemical organizations.
PETER BREIDT, JR.

MODESTO ALBAREZ
ACS 2, 3, 4; AIChe 3, 4; Intramural Basketball 4.

JOSEPH A. BIESENBERGER
ACS 2, 3, 4; Secretary ACS 4; AIChe 3, 4; Phi Kappa Phi 3, 4.

JAMES D. BROWN
Intramural Sports 1; Class Council 1, 2, 3; Recording Secretary of Class 1, 2, 3; Phi Eta Sigma 1; Junior Varsity Basketball 2; ACS 3, 4; AIChe 3, 4.

ROBERT J. CAPIK
ACS 2, 3, 4; AIChe 3, 4; Newman Club, Intramural Basketball 1, 2; Dance Club.
ROBERT F. CARUSO
ACS 2, 3, 4; AIChe 3, 4; Intramural Basketball 4.

EDWINA CHESKY
Kampus Kapers 1, 2, 3, 4; Cheerleader 1, 3, 4; Glee Club 1, 4; Technician 1, 2; Exchange Editor of Technician 2; Honors Option 2; AIChe 3, 4; ACS 3, 4; Alpha Psi Omega 3, 4; Treasurer of Kampus Kapers 4.

DENNIS COURTNEY
Varsity Baseball 1, 2, 3, 4; Captain of Baseball Team 4; Newman Club 1, 2, 3, 4; Dance Club; Intramural Basketball 1; Junior Varsity Basketball 2; ACS 3, 4; AIChe 4; Athletic Association.

JOSEPH DIGERONIMO

ALFRED DONOVAN

JOHN P. DOUGHERTY
Class Council 1; Student Council 3; Corresponding Secretary of Student Council 3; AIChe 3, 4.
JOHN L. EHRLER  
ACS 2, 3, 4; AIChE 3, 4; President AIChE 4; Intramural Bowling 2; Tau Beta Pi 3, 4; Bridge Club, Phi Eta Sigma; Professional Societies Council 4; Nucleus.

JOSEPH G. FREE  
ACS 2, 3, 4; AIChE 3, 4; Vice President AIChE 4; Fencing Team 3, 4; Alpha Sigma Mu Dance Club.

EUGENE F. GLYNN  
ACS 3, 4; AIChE 3, 4; Rod & Gun Club, Arnold Air Society; Motor Club; Student Council 3; Nucleus.

ARmando GREGOLI  
Dance Club 1, 2, 3, 4; Intramural Sports 1; Rifle Club 1; ACS 3, 4; AIChE 3, 4; Class Council 4; Arnold Air Society 4.

ALEX GOLDBERG  

ROY T. HALLE  
Glee Club 1, 2, 3, 4; Chess Club 1; Phi Eta Sigma 1, 2, 3, 4; Phi Eta Sigma Senior Advisor; President Phi Eta Sigma 3; Class Council 2, 3; Rifle Club 2; Ski Club 3, 4; Tau Beta Pi 3, 4; President Tau Beta Pi 4; Omicron Delta Kappa 3, 4; Treasurer Omicron Delta Kappa 4; Arnold Air Society 3, 4; Honor Societies Council 3; Chairman of Honor Societies Council 4; ACS 3, AIChE 4.
ALFRED L. HAMILTON

Intramural Sports 1, 2, 3; Class Council 2, 3; International Relations Club 3; Technician 3; ACS 4; AIChE 4.

JAMES J. HOWLEY

ACS 2, 4; AIChE 4; Class Council 4.

WILLIAM JAYNE, JR.

Varsity Rifle Team 1, 2, 3, 4; ACS 3, 4; AIChE 3, 4.

FRANK KEARNEY

Intramural Basketball 2; AIChE 4.

DANIEL JAMES

ACS 2, 3, 4; AIChE 4; Motor Club 3, 4; Honors Option 3, 4.

NICHOLAS J. HUTH

Dance Club 1, 2, 3, 4; Newman Club 1, 2, 3, 4; Junior Varsity Basketball 1; Varsity Basketball 2, 3, 4; Captain of Basketball Team 4; Junior Varsity Baseball 1; Varsity Baseball 2; ACS 1, 2, 3, 4; AIChE 3, 4; Varsity Soccer 4; Class Council 4; Vice President of Class of 1957 4; Pi Kappa Phi 3, 4; 1957 Nucleus 4.

The big fire in the Chemistry Department.
CHARLES B. KRAMOS

CHARLES LOMBARDI
Dance Club 1; Class Council 1; Ski Club 2, 3, 4; Secretary of Ski Club 2; Vice President of Ski Club 3; President of Ski Club 4; ACS 3, 4; AIChE 3, 4.

NATHANIEL KULLER
Intramural Basketball 2, 4; Class Council 2, 3; ACS 3, 4; AIChE 3, 4.

ARThUR LAHR
ACS 3; AIChE 3; Tau Delta Phi; Dance Club; Christian Fellowship Club.

JAMES MAHLMANN
Dance Club 1; Class Council 1; Ski Club 2, 3, 4; Secretary of Ski Club 2; Vice President of Ski Club 3; President of Ski Club 4; ACS 3, 4; AIChE 3, 4.

OH, those hot dogs!

JOSEPH MANTARRO
ACS 2, 3, 4; AIChE 3, 4.
WILLIAM MEYER

ACS 2, 3, 4; Treasurer of ACS 3; President ACS 4; Alpha Sigma Mu 2, 3, 4; AIChE 3, 4; Professional Societies Council 4.

They are too chemicals in those bottles.

BURLEY MELTON, JR.

Dance Club 1, 2, 3, 4; Intramural Basketball 1, 2; Pi Kappa Phi 2, 3, 4; ACS 2, 3, 4; Vice President of ACS 3; AIChE 3, 4.

JAMES S. MURPHY

Dance Club 1, 2; Glee Club 2; Alpha Phi Omega 2, 3, 4; President of Alpha Phi Omega 3, 4; Kampus Kapers 2; Technician 2; Soccer Team 2; ACS 2, 3, 4; AIChE 4.

JOHN MICKEY

JOHN MYTRYSHYN

ACS 2, 3, 4; AIChE 3, 4; Dance Club 4; International Relations Club 3, 4; Vice President of International Relations Club 4.
VINCENT NOLAN
Chess Club 1, 2, 3, 4; Secretary of Chess Club 2; President of Chess Club 3, 4; Bridge Club 1, 2, 3, 4; Interclub Council 2, 3, 4; Chairman of Interclub Council 3, 4; ACS 2, 3, 4; Secretary ACS 3; AIChE 3.

PATSY NAPOLITANO
Newman Club 1, 2, 3, 4; Fencing Team 2, 3, 4; Class Council 3, 4; ACS 1, 4; AIChE 4; 1957 Nucleus 4.

RICHARD O'CONNOR

“Drink, drink, drink . . .”

JAMES O'DONNELL
Intramural Sports 1, 2, 4; Honors Option 2, 3.

MICHAEL PERLSWEIG

EDWARD PREGUN
Chess Club 1; Intramural Basketball 1, 2, 4; Student Council 1; AIChE 3, 4.
RAYMOND D. RACKAUSKAS
Command Squadron 2; ACS 2, 3, 4; Newman Club 3, 4; AIChE 3, 4 (Treasurer 4); Pi Kappa Phi 3, 4; Dance Club 3, 4; Section Representative 4; Nucleus Staff 4.

SERGIUS RINALDI
Dance Club 2, 3, 4; Honors Option 2; Intramural Basketball 3, 4; ACS 3, 4; AIChE 3, 4.

MILTON ROSEN
Dance Club 1; Intramural sports 1, 2; ACS 2, 3, 4; AIChE 3, 4.

ROBERT F. ROTH

LEO F. RYAN
Intramural Sports 1; ACS 3; AIChE 4; Tau Beta Pi 4.

ROY H. SCHAFERBERGER
ACS 2, 3, 4; NCE Junior Achievement Company 3, 4; Pi Kappa Phi 3, 4; AIChE 3, 4; Tau Beta Pi 4; Intramural Bowling 4.

Remember this?
HERBERT SCHROB

ARTHUR SIKORA

GORDON B. SMITH
Work: Celanese Corporation of America.

BERNARD D. STRAUSS
Junior Varsity Baseball 1; Intramural Basketball 1, 2, 3, 4; Dance Club 1, 2, 3, 4; ACS 3, 4; AIChE 3, 4, 1957 Nucleus 4.

STEPHAN SWAN
Intramural Basketball 1, 2, 4; Dance Club 1; AIChE 3, 4; 1957 Nucleus 4.

DAVID B. SWANSON

Surveying for the new building.
ROGER K. WASSERBURGER
Intramural Sports 1, 2, 3, 4; Dance Club 1; Tau Delta Phi 2, 3, 4; Technician 2; ACS 2, 3, 4; AIChE 3, 4.

LOUIS E. WEINRICH
Intramural Sports 1, 3; Interfraternity Sports 2, 3, 4; Phi Beta Tau 2, 3, 4; Command Squadron 2; ACS 2, 3; AIChE 4.

FRANCIS A. WINTERS
CIVIL ENGINEERING
Modern civil engineering includes within its scope the economic planning, design, construction, operation, and maintenance of the fixed structures and works required by our present industrial civilization. Its coordinated subdivisions comprise structural engineering, transportation engineering, hydraulic engineering, sanitary engineering, and surveying.

A field so varied requires that the academic training of those who enter it have breadth as well as depth. Rigorous education in the basic sciences is fundamental. Economics and finance are of the essence in this field. Knowledge of the properties of engineering materials is essential not only in design but in research. The operation of highly mechanized construction plants requires basic training in mechanical and electrical engineering. Integrated with and built upon this broad foundation, we have the applications of the engineering method to the professional work of the field.
ALDO J. ANDREOLI
Pi Kappa Phi Fraternity 2; Fencing Team 2; Intramural Bowling Team 3; Vice President of ASCE 3; Rod and Gun Club 4.

WALTER K. BRINKMANN
Christian Fellowship 1, 2, 3, 4; Vice President of Christian Fellowship 4; Varsity Track 1; Glee Club 2, 3; ASCE 3, 4; Sigma Tau Sigma 3, 4; President of Sigma Tau Sigma 4; Honor Societies Council 4.

WILLIAM V. BOOREAM, JR.

LOUIS BAIANO

HARRY BONTE

ALFRED A. BRUNO
ASCE 3, 4; President of ASCE 4; Sigma Tau Sigma 4.
ROBERT J. CARLE
Sigma Tau Sigma 3, 4; Secretary of Sigma Tau Sigma 4; ASCE 3, 4; "Surveyor" 3, 4; Co-Editor of "Surveyor" 3; Editor of "Surveyor" 3; Editor of "Surveyor" 4.

NORMAN CHERUBINO
Tau Delta Phi 1, 2, 3, 4; Intramural Sports 1, 2; Dance Club 1, 2, 3, 4; Interfraternity Sports 2, 3, 4; Technician 2, 3, 4; Pi Delta Epsilon; ASCE 3, 4; Sigma Tau Sigma; Class Council 4; Treasurer of ASCE.

SAM DENEKA
Dance Club 1, 2; Intramural Basketball 1; Sigma Tau Sigma 3, 4; American Society of Civil Engineers 3, 4; Secretary of Sigma Tau Sigma 3; Treasurer of Sigma Tau Sigma 4.

DOUGLAS DOIDGE
Yacht Club, ASCE, Vice President Phi Beta Tau.

Surveying ant tracks?

GILBERT M. FAUSTEL
Christian Fellowship 1, 2, 3, 4; President of Christian Fellowship 4; ASCE 3, 4; Sigma Tau Sigma 4.

FRANCIS R. GANZALA
Intramural Sports 1, 2; Dance Club 1, 2; ASCE 3, 4.
DAVID GOMMOLL
Sigma Tau Sigma 4; ASCE 4; Work: Curtiss Propeller Division.

IRVING E. HJELSTROM

DONALD KATZ
Intramural Basketball 1; Dance Club 1, 2; "Surveyor" 3, 4; ASCE 3, 4; Class Council 4.

GEORGE KLEMAN
Intramural Sports 1, 2, 3, 4; ASCE 3, 4.

Boy, it was rough.

RICHARD H. KOLODIN
Motor Club 2; Treasurer of Motor Club 2; ASCE 3, 4; Sigma Tau Sigma.

GEORGE KLEMAN

WILLIAM S. KOWALSKI
Class Council 1; Rifle Club 1, 2; Pi Kappa Phi 2, 3, 4; ASCE 3, 4; Newman Club 3, 4.
THEODORE F. LAFFEY
Intramural Softball 1, 2; Intramural Basketball 1; Pi Kappa Phi 3, 4; ASCE 3, 4; '57 Class Council 4.

ROMUALD E. LIPINSKI

ANTHONY P. MIELE, JR.

Pussy in the well?

THOMAS B. MON

ROBERT J. NICHOLSON, JR.

JAMES E. SEXTON
ASCE 3, 4.
GARRET P. WESTERHOFF
Alpha Phi Omega 1, Secretary of Alpha Phi Omega 1; Intramural Sports 1; Phi Beta Tau 2; Secretary-Treasurer of Phi Beta Tau 2; Photography Club 2; Student Council 2; ASCE 3, 4; Yacht Club 4; Photography Editor of 1957 Nucleus 4.

JOHN A. ZIEMIAN, JR.
Work: Porter, Urquhart, McCreary and O'Brien Consulting Engineers.
ELECTRICAL ENGINEERING
The electrical engineering courses emphasize basic principles, concepts, and their interrelations upon which the design and operation of all electrical devices of our present electrical age depend. The aim is to educate an electrical engineer who can think analytically and creatively and work efficiently. Also he can convey the results of his work effectively to others. He is prepared for responsibilities as a professional engineer and citizen in a democracy by his experiences within the group of fellow students and laboratory co-workers.
Ralph Amato
Varsity Baseball 1, 2, 3, 4; Co-Captain of Baseball Team 4; Intramural Sports 1, 2, 3, 4; Arnold Air Society 4; IRE 4; AIEE 4.

Joseph Barbanel

David S. Bagley

Alan Behler
Radio Club 1; Tau Delta Phi 2; Eta Kappa Nu 4; IRE 4.

Richard A. Batiuk
AIEE 3, 4; IRE 4; Technician 4; Orbit 4; Chi Lambda Upsilon 4.

Alfred Baron

Chi Lambda Upsilon 4.

Technician 4; Orbit 4;
ANGELO BONIELLO
Work: Signal Corps Engineering Laboratory.

JAMES H. BOWEN
Class Council 4; IRE 4; AIEE 4.

ELIJAH G. BRAND
IRE 3, 4; Vice President IRE 4; 1957 Nucleus 4.

LAWRENCE J. BRINCKA
IRE 3, 4; Eta Kappa Nu 4.
JOSEPH A. BRINO
Alpha Phi Omega 2; Vice President of Alpha Phi Omega 2; AIEE 3; IIE 4.

ARTHUR W. BUNCE
Intramural Basketball and Softball, Basketball Team Captain; AIEE; Chatham Electronics.

WAYNE I. CLEMENTS
Alpha Sigma Mu 2, 3, 4; Corresponding Secretary of Alpha Sigma Mu 4; AIEE 2, 3, 4; Vice President of AIEE 3; IIE 3, 4; Honors Option 3; Yacht Club 4; Eta Kappa Nu 4.

CHARLES M. COLLINS
Intramural Softball 1; AIEE 1, 2, 3, 4; Class Council 3, 4; Intramural Basketball 4.

ROBERT C. CURRY
Radio Club 1; Dance Club 2, 3; Class Council 2, 3, 4; Intramural Softball 2; Newman Club 3, 4; Pi Kappa Phi 2, 3, 4; AIEE 4; Fencing 4; Secretary of Class 1957-4.

GERALD D'ALLEGRO

UP, UP, UP.
WALTER J. DECKER
AIEE 2, 3, 4; IRE 4; Alpha Sigma Mu 2, 3, 4.

STEVEN J. DOMCHICK
Glee Club 1, 2; Newman Club 1, 2; Fencing Club 1, 2; Instructor of Fencing Club 2; IRE 3.

LAURENCE J. DE LORME
Intramural Basketball 1, 2, 3, 4; Newman Club 1, 2, 3; AIEE 3.

JOHN DI PAOLO
Kampus Kapers 2; Eta Kappa Nu 4.

RICHARD E. DONNELLY
AIEE 3, 4; Secretary of AIEE 3; Alpha Sigma Mu 3, 4; Eta Kappa Nu 3, 4; Secretary of Eta Kappa Nu 4; Tau Beta Pi 4.

EUGENE I. DREES
Too many EE's blow out the fuses.
RALPH R. DUERSCH
AIEE 2, 3, 4; Phi Eta Sigma 2, 3, 4; Alpha Sigma Mu 2, 3, 4; Eta Kappa Nu 3, 4; President of Eta Kappa Nu 4; Tau Beta Pi 3, 4.

BRIAN F. EDEN
Intramural Sports 1, 2, 3, 4; Baseball Team 2, 3, 4; IRE 4.

RICHARD C. FANARJIAN
IRE 4.

JOHN W. FOX

WILLIAM P. ERNST
Work: Stavid Engineering, Bell Telephone Laboratories.

WILLIAM A. FRANCIS
Intramural Basketball 1; AIEE 4; IRE 4.
RICHARD A. FULCHER
AIEE 3, 4; Class Night Committee.

JOSEPH G. FRIEDELIN
Class Council 1; Intramural Basketball 1, 2; Dance Club 1, 2, 3, 4; Tau Delta Phi 1, 2, 3, 4; Eta Kappa Nu, 3, 4; IRE 3; Tau Beta Pi 4.

These night men seem to just stand around.

THOMAS J. GAVEN
Junior Varsity Basketball 1, 2; Intramural Sports 1, 3, 4; AIEE 3, 4.

EVANGELOS T. GAVRILIS
AIEE 3, 4;

JOHN W. GOEHNER
Treasurer of AIEE 4.
JOHN F. HEBER

A IEE 4; IRE 4; Alpha Sigma Mu 4.

WALTER S. GREENWOOD

Phi Eta Sigma 1; Eta Kappa Nu 3; AIEE 3; Tau Beta Pi 4; Arnold Air Society 4.

RICHARD S. GURAK

Phi Eta Sigma 1, 2, 3; Intramural Sports 1, 2; Tau Beta Pi 3, 4; Corresponding Secretary of Tau Beta Pi 4; Eta Kappa Nu 3, 4; Recording Secretary of Eta Kappa Nu 4; Arnold Air Society 3, 4.

HARVEY S. HERSHKOWITZ

Class Council 1, 3, 4; Technician 1; Intramural Basketball 1; Chess Club 1; Dance Club 1, 2; AIEE 2, 3, 4.

GERALD HESS

AIEEE 4; IRE 4; Alpha Sigma Mu 4.

Is SHFLD the abbreviation of "shuffled"?

EDWARD R. HESTER
FRANCIS J. HIGGINS

MARTIN F. HONAN, JR.
Soccer Team 1, 2, 3, 4; Co-Captain of Soccer Team 4; Class Council 1, 2, 3; Technician 1, 2, 3; Intramural Basketball 1; Phi Eta Sigma 2, 3; Pi Kappa Phi 2, 3, 4; Athletic Association 3; Arnold Air Society 3, 4; Athletic Association Treasurer 3; AIEE 3, 4; Newman Club 3, 4; Intramural Bowling 3, 4; Student Council 4; President of Student Council 4; Omicron Delta Kappa 4.

LEONID HUSAK

LEWIS A. JACOBUS, JR.
Intramural Bowling 2, 3; Eta Kappa Nu 4; IRE 4; Class Council 4.

KENNETH C. HYDE

GEORGE E. JOHNSON
JAMES B. KEANE
IRE 3, 4; Work: American Telephone and Telegraph Company.

CHARLES E. KELLER, JR.

PAUL R. KRETCHMAR
Intramural Basketball 1; Intramural Softball 1, 2; Tau Delta Phi 3; Arnold Air Society 3, 4; IRE 3, 4; Treasurer of Beta Pi 4; Eta Kappa Nu 4.

E D W I N S. K R U S E

KARL KUBAK
Kampus Kapers Band 1, 2, 3; Pi Kappa Phi 2, 3, 4; AIEEE 4; Cass Council 4; Corresponding Secretary of Class of 1957 4.

"Isn't it romantic . . . ,"

GEORGE W. LANDGRAF
CHARLES L. LA RUE
Tennis Team 2, 3, 4; Co-Captain of Tennis Team 4; Fencing Team 3; Eta Kappa Nu 4.

FRANK R. LA VERDA

AUSTIN LEAKE, III
IRE Student Member 3, 4; Class Council 3, 4; Section Representative 3, 4; Class Night Committee 4.

Have you checked the fuses?

AUGUST F. MANZ
AIEE 2, 3, 4; IRE 2, 3, 4; Honors Option 2, 3.

JOSEPH A. MELOSH

USZER A. LEJTMAN

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ROY M. MERSHON, JR.

IMTRANULAR SPORTS 1, 2, 3; DANCE CLUB 1; TAU EPSILON PHI 2, 3, 4; INTERFRATERNITY BASKETBALL 2, 3, 4; ETA KAPPA NU 4; AIEE 4; CLASS COUNCIL 4.

NORMAN G. METZGER

DANCE CLUB, INTRAMURAL BASKETBALL 1, 2; AIEE 3, 4; CLASS NIGHT ENTERTAINMENT COMMITTEE.

RONALD E. NICHOLLS

INTRAMURAL BASKETBALL 1; JUNIOR VARSITY FENCING TEAM 1; VARSITY FENCING TEAM 2, 3, 4; CAPTAIN OF FENCING TEAM 4; IRE 4.

DONALD J. MEYLER

TRACK TEAM 1, 2, 3, 4; JUNIOR VARSITY BASKETBALL 1, 2; VARSITY BASKETBALL 3; GOLF CLUB 1, 2, 3, 4; SECRETARY OF GOLF CLUB 2; PRESIDENT OF GOLF CLUB 3, 4; ARNOLD AIR SOCIETY 4; AIEE 4.

MELVIN MINTZ

INTRAMURAL SPORTS 1, 2, 3; DANCE CLUB 1; TAU EPSILON PHI 2, 3, 4; INTERFRATERNITY BASKETBALL 2, 3, 4; ETA KAPPA NU 4; AIEE 4; CLASS COUNCIL 4.

RONALD E. NICHOLLS

INTRAMURAL BASKETBALL 1; JUNIOR VARSITY FENCING TEAM 1; VARSITY FENCING TEAM 2, 3, 4; CAPTAIN OF FENCING TEAM 4; IRE 4.

EBERHARD G. NORDMAN

Varsity Fencing 1, 2, 3, 4; AEM 1, 2, 3, 4; IRE 4; AIEE 4; Co-Captain Fencing Team 4.

Now who's dummy?
OTTO D. NORDMAN
Class Council 1; Varsity Fencing 1, 2, 3, 4; Captain Fencing Team 3; Physics-Chemistry Prize 1; Alpha Sigma Mu 2, 3, 4; Honors Option 2, 3; Tau Beta Pi 3, 4; HKN 3, 4; AIEE 4; Intramural Sports 1, 2; Kampus Kapers 2, 3, 4; Vice President of Kampus Kapers 4; Pi Kappa Phi 2, 3, 4; President of Pi Kappa Phi 3.

HENRY W. OTT
Intramural Sports 1, 2; Dance Club 1, 2; Pi Kappa Phi 3, 4; Arnold Air Society 3, 4; AIEE 3, 4; President of AIEE 4; Class Council 3, 4; Eta Kappa Nu 4; Student Council 4; Professional Societies Council 4; President of Professional Societies Council 4.

ROBERT A. O'HARE
Alpha Psi Omega 4; Newman Club 3, 4; AIEE 4; Class Council 1, 2, 3, 4; Corresponding Secretary of Class of 1957 1, 2; Vice President of Class of 1957 3; President of Class of 1957 4; Intramural Sports 1, 2; Kampus Kapers 2, 3, 4; Vice President of Kampus Kapers 4; Pi Kappa Phi 2, 3, 4; President of Pi Kappa Phi 3.

DOMINIC F. PASCUCCI
Junior Varsity Baseball 1; Varsity Baseball 3, 4; AIEE 3, 4; Intramural Basketball 4.

ANDREW M. PAPAROZZI

JOSEPH H. PINAUD
Newman Club 1, 2; Intramural Sports 1, 2; Rifle Club 1; AIEE 3, 4; Arnold Air Society 3, 4; Class Council 4.
When a fella needs a gal.

THOMAS J. ROBE
Phi Eta Sigma 1, 2; Intramural Sports 1, 2; Honor Societies Council 2; Eta Kappa Nu 3, 4; Arnold Air Society 3, 4; Executive Officer of Arnold Air Society 4; Tau Beta Pi 4.

JOHN R. RUPPERT

ROBERT E. RUTHERFORD, JR.
WILLIAM J. RYNONE, JR.
Intramural Basketball 1, 2; Intramural Softball 2; AIEE 4.

ARTHUR F. SARGENT

GEORGE SAWUTZ

WILLIAM F. SCHWAIBOLD
AIEE 4.

“These guys always give me a hard time.”

JOHN R. SHAFTO, JR.

NATHANIEL K. SHAW
Rifle Club 1, 2; Tau Delta Phi 1, 2, 3, 4; Class Council 1; IRE 3, 4; AIEE 4.
DAVID SHERIN
IRE 4; AIEE 4; Alpha Sigma Mu 4.

ROBERT F. STALEY
Intramural Bowling 1; Arnold Air Society 3, 4; Treasurer Arnold Air Society 4; AIEE 3, 4; Treasurer AIEE 4; Student Council 4; Honor Societies Council 4.

ARTHUR M. STILES

FRED M. STUMPF
Christian Fellowship 1, 2; Intramural Softball 1, 2; Arnold Air Society 3, 4; President of Arnold Air Society 4; AIEE 3, 4; Eta Kappa Nu 4; Cadet 4; Student Council 4.

NCE's funhouse.

FRANK L. STRUBEL
AIEE 3, 4; Tau Beta Pi 4; Eta Kappa Nu 4.

CARMINE C. TAVORMINA
AIEE 3, 4; IRE 4.

CARMINE C. TAVORMINA
AIEE 3, 4; IRE 4.
Quick, more resistance.

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DAVID F. WOOD
Christian Fellowship 1, 2, 3, 4; Secretary-Treasurer of Christian Fellowship 3; Intramural Softball 1; Phi Eta Sigma 1, 2, 3; Eta Kappa Nu 3, 4; Honor Societies Council 3, 4; Vice Chairman of Honor Societies Council 4; Tau Beta Pi 3, 4; Student Council 4.

OTTO YOUNGBLUTH, JR.

DOMINICK F. VOLPE

WILLIAM G. WESTERFIELD

ROBERT A. WOODMAN, JR.

EDWARD A. YOUCH
AIEE 2; IIE 3, 4.

LOAFING AGAIN.

OTTO YOUNGBLUTH, JR.
VALENTINE ZLYDAK
Intramural Sports 1, 2, 3; Photography Club
1; IRE 3, 4.

ARThUR C. RYAN

ALBERT J. ALBERTS, JR.
RICHARD ANDERSON
MICHAEL J. CAPANO
ROBERT D. DOBLEY
JOHN J. DUDUS
JAMES L. EMAUS
ROBERT T. FEDORKA
WALTER H. FORSTROM
VICTOR A. GREENE
DOMINIC J. GURRERA

ROBERT D. HARDGROVE, JR.
PATRICK J. HENDRICKS
VICTOR B. HOLMQQUIST
GEORGE A. KERN
DONALD H. KIENLE
ROGER K. LEWIS
BRUCE LUMMIS
Class Council 1; Phi Eta Sigma
2; President of Phi Eta Sigma
2; Tau Beta Pi 3; Eta Kappa Nu
3; Eta Kappa Nu President 3;
Omicron Delta Kappa 3.

EUGENE P. MORAN
ARTHUR PORTA
PAUL RATHJEN
RUDOLPH SIKORSKY
VICTOR M. SILVESTRINI
ROBERT L. VILE
HANS G. WALCH
EDWIN O. WARJONEN

Hart, what are you doing in the EE section?
The Mechanical Engineering Course first affords basic instruction in the mathematical and physical sciences and then emphasizes the technical application of scientific principles which have been considered. This training in the technical aspects of the profession is supplemented by a series of courses designed to provide an understanding of the human relationships involved in, and an appreciation of the economic factors essential to, the success of an industrial venture.

Within the general curriculum of Mechanical Engineering lies the Management Engineering option. In this option, emphasis is placed not only on technical problems in manufacturing but also on the common interests, and the common equities of capital, labor and management in sound industrial procedures and practices.
JOHN A. ALAI
Technician 1, 2; Editor 2; Chess Club 1, 2; Dance Club 1, 2, 3; Student Council 1; Track Club 1, 2; Table Tennis 1, 2, 3, 4; President 3, 4; Tau Delta Phi 2, 3, 4; Treasurer 4; ASME 2, 3, 4; Pi Delta Epsilon 3, 4; President 3, 4; Editor of Steamlines 4.

NINO ADDONIZIO
ASME 2, 3; Pi Tau Sigma 4; Editor of "Condensate" 4; Night Editor, Nucleus; Work: Gibbs and Cox Inc.

JOHN B. ADRIANCE

FRANK D. ALTIERI
Intramural Basketball 1, 2, 3, 4; Intramural Softball 1, 2; Christian Fellowship 2, 3, 4; Table Tennis Club 2, 4; ASME 3, 4; Honor's Option 3; Ski Club 4.

ALWIN W. AMBROSE
Glee Club 1; Newman Club 1, 2, 3, 4; Intramural Basketball 1, 2, 3; Intramural Softball 1, 2; Dance Club 1, 2, 3, 4; Pi Kappa Phi 3, 4; ASME 3, 4; Class Council 4.

GEORGE M. APGAR
Basketball 1; Dance Club 1, 3; Varsity Basketball 2, 3, 4; Section Representative 2, 3; ASME 3, 4; Honors Option Program 3, 4; Pi Tau Sigma 4; Class Council 2.
ALFRED R. AUSTEN
Rifle Club 1; ASME 3, 4; Pi Tau Sigma 4; Athletic Association 4; Art Editor of 1957; Nucleus 4.

JAMES H. BAILEY, JR.

WARREN E. BAILEY
Track Team 1, 2, 3, 4; Intramural Basketball 1, 2, 3, 4; Intramural Baseball 1, 2, 3, 4; Mars 1, 2, 3; Christian Fellowship 2, 4; Inter-Club Council 2, 3, 4; Secretary of Inter-Club Council 3; ASME 4.

EDWARD J. BANKO
Ski Club 4.

WHOM ARE YOU TRYING TO KID?

CONSTANTINO BARPOULIS
ASME 1, 3, 4; Intramural Basketball 3.

ROBERT R. BECK
Christian Fellowship Club 1, 2, 3, 4; Intramural Basketball 1, 2; Intramural Softball 2; Class Council 2; ASME 3, 4; Honor's Union 3, 4; Pi Tau Sigma 4; 1957 Nucleus 4.
EARL A. BEMIS
Dance Club 1, 2, 3, 4; ASME 1, 3, 4; Technician 2, 3, 4; Intramural Basketball 2, 3; Kampus Kapers 3, 4; Glee Club 4; Alpha Psi Omega 4; Pi Tau Sigma 4; Intramural Bowling 4.

JOSEPH BENDER
Work: California Oil Company.

BRIAN L. BIRCH
ASME 3, 4; 1957 Nucleus Advertising Committee 3, 4; ASME Trip Committee Chairman 4.

ROBERT W. BIRD
Yacht Club 1, 2; Track Team 1, 2; Track Team Captain 1, 2; Fencing Team 1, 2; ASME 3, 4.

EDMUND BLICKLE
ASME 2, 3, 4. Work: R.C.A.

ELLERY BLOCK
ASME 3, 4; SAM 3, 4; Sam’s Song Editor 3, 4; Ski Club 3, 4, Secretary of Ski Club 4; Pi Tau Sigma 4.

Hiding won’t help, Ruth.
WILLIAM F. BOCK
Intramural Basketball 1; ASME 3, 4; Ski Club 3, 4; Secretary of Ski Club 3, Treasurer of Ski Club 4; Nucleus 4; Golf Club 4.

WALTER H. BOEHLING
Dance Club 1, 2, 3, 4; Christian Fellowship 1, 2; Motor Club 3; Arnold Air Society 3, 4; ASME 3, 4; SAM 3, 4; Ski Club 4; Pi Tau Sigma 4.

JOSEPH BOORUJY

HENRY F. BRAHM
ASME 3, 4; Dance Club 4; Photography Club 4.

PAUL R. BURKE
ASME 3, 4; Yearbook Advertising Staff 4.

LET'S HAVE HONEST WEIGHT, ALEX.

RALPH R. BORSELLA

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ROBERT E. CATLETT
ASME 3, 4; Student Representative ASME 4; Pi Tau Sigma 4.

MATTHEW B. CIESLA
Sigma Pi 1, 2, 3, 4; Photography Club 1; Class Council 1; President Sigma Pi 4; Interfraternity Council 2, President 2; ASME 3, 4; Yacht Club 2; SAM 4; Nucleus 1957 4.

WARREN CLARK
Christian Fellowship 2, 3, 4; Motor Club 3; Secretary 3. Work: Airtron, Inc.

How much fuel would a boiler burn . . .

CHARLES H. COVEY, JR.
Sigma Pi 1, 2, 3, 4; Photography Club 1; Class Council 1; President Sigma Pi 4; Interfraternity Council 2, President 2; ASME 3, 4; Yacht Club 2; SAM 4; Nucleus 1957 4.

DAVID P. COSTA

Kampus Kapers 1, 2; Alpha Sigma Mu 2, 3; Recording Secretary AEM 3; ASME 4; Honor's Option 3; GTC Society 3, 4; GTC Treasurer 3, 4; Dance Club 4.

VICTOR CRISCI
ANGELO DEIESO

Interfraternity Council 3; Dance Club 3, 4; Photo Club 3, 4; Newman Club 3, 4; Glee Club 3; Yacht Club 4; Rod and Gun Club 4; SAM 3, 4; ASME 3, 4; Interfraternity Council Vice President 3.

DAVID CVENTZEL

International Relations Club 1, Secretary 2, President 3, Secretary-Treasurer 4; Tau Beta Pi; Pi Tau Sigma.

WILLIAM H. DE PIERO

Intramural Basketball 1, 2; ASME 1, 3, 4; Intramural Softball 1, 2, 4; Pi Tau Sigma 4; Co-Editor 1957 Nucleus 4; Honors Option 3.

JAMES R. DE TIZIO

Dance Club 1, 2, 3; Rod and Gun Club 3, 4; ASME 3, 4.

CHARLES J. DEVEIKIS

ASME 2, 4; Alpha Sigma Mu 3, 4.
THEODORE E. DRUCKENMILLER
ASME 3, 4; Business Manager 1957 Nucleus 4.

EDWIN C. DOMMERMUTH
ASME 2, 3, 4. Work: Automatic Switch Co.

JOHN J. DWYER
ASME 2, 3, 4; Evening Staff Nucleus 1957. Work: Esso Standard Oil Co.

RALPH D. ENGEL
ASME 1, 3, 4; Pi Kappa Phi 1, 2, 3, 4; Intrafraternity Council 3, 4; President of Intrafraternity Council 4; Pi Tau Sigma 4; Forensic Society 4.

MANFRED O. ERDMANN
Student Council 1, 3; Pi Kappa Phi 2, 3, 4; ASME 2, 3, 4.

ROBERT R. DRUMMOND
More excavation.
ROBLEY D. EVANS
Work: Curtis Wright Aeronautical Division.

JOSEPH B. FABER
ASME 3, 4. Work: Curtiss Wright Corp.

JOHN J. FERRER

RAYMOND FERRI

INLET PRESSURE, 250 PSI.

STANLEY FISCHLER
ASME 3, 4; Intramural Basketball 1.

WILLIAM V. FITZGERALD, JR.
ASME 1, 3, 4; 1957 Nucleus Advertising Committee 3, 4; Trip Committee ASME 4.
ANTHONY FOTI
Baseball Coach 2; ASME 3. Work: Airborne Accessories Corp.

HENRY J. FRANK, JR.

MICHAEL GABOR

SHELDON B. GLICKMAN
Rifle Club 2; Visitors' Day Committee 2, 3; ASME 3, 4; SAM 3, 4; Sam's Song 3, 4.

WILLIAM H. GIBBONS

Go to work, Nino.

ANTHONY P. GRAHAM
ASME 2, 3, 4; Pi Tau Sigma 4. Work: Public Service Electric and Gas.
ALBERT P. GRASSO
Rifle Club 1, 2, 3, 4; Rifle Team 1, 2, 3, 4; Glee Club 1; Drill Team 2; Rifle Club publications secretary and Vice President 2; President Rifle Club 3.

HORTENSE A. HAEBERLE
Radio Club 1; Kampus Kapers 1, 2, 3, 4; Secretary of Kampus Kapers 3, Technician 1; SAM 3, 4; ASME 3, 4; Alpha Psi Omega 4; Glee Club 4.

DONALD S. HANSEN
Intramural Basketball 1, 2, 3; Intramural Softball 1, 2, 3, 4; Secretary Dance Club 3; Interfraternity Softball 2, 3, 4; Interfraternity Basketball 2, 3; Pi Delta Epsilon 3, 4; Vice President Pi Delta Epsilon 3, 4; SAM 3, 4; ASME 3, 4; Athletic Association 3, 4; Junior Varsity Basketball Manager 3; Varsity Basketball Manager 4; Professional Societies Council Secretary Treasurer 4.

WILLIAM F. HANLEY
Tau Delta Phi 1, 2, 3, 4; Intramural Softball 1; Dance Club 1, 2, 3, 4; Secretary Dance Club 3; Interfraternity Softball 2, 3, 4; Interfraternity Basketball 2, 3; Pi Delta Epsilon 3, 4; Vice President Pi Delta Epsilon 3, 4; SAM 3, 4; ASME 3, 4; Athletic Association 3, 4; Junior Varsity Basketball Manager 3; Varsity Basketball Manager 4; Professional Societies Council Secretary Treasurer 4.

NORMAN L. HALEY
Alpha Sigma Mu 1, 2, 3, 4; IRE 2; SAM 3, 4; ASME 3, 4, ASME Treas. 4.

ALEXANDER HART
Class Council 1, 2; Class Vice President 1957; 1; Rocket Society 2, 3; President 2, 3; ASME 2, 3, 4.

Ah Ed, walking isn't that hard.
RUDOLPH H. HEDEL
ASME 3, 4; Alpha Sigma Mu 3, 4.

SUSAN DAVIS HOLZMAN
Technician 1; Cheerleader 1, 2, 3, 4; Captain of Cheerleaders 3, 4; Kampus Kapers 1, 2, 3, 4; President of Kampus Kapers 3; Class Council 1, 2, 3; Secretary of Class of "1957", 3; ASME 1, 2, 3, 4; SAM 3, 4; Alpha Psi Omega 2, 3, 4; Honors Societies Council 2, 3, 4; Representative to Athletic Association 3; Nucleus 4; Associate Editor of Nucleus 4.

ALEXANDER JORDAN
Rifle Club 1, 2, 3, 4; Treasurer 2, 3; Chess Club 1; Athletic Association 2, 3, 4; Secretary 3; ASME 3, 4; Tau Beta Pi 3, 4; Pi Tau Sigma 3, 4; Arnold Air Society 3, 4; Honors Option 3.

PAUL JONES
ASME 3, 4; Work: Curtis Wright Corp.

DENNIS J. JAGT
ASME 1, 2, 3, 4.

RUDOLPH H. HEDEL
ASME 3, 4; Alpha Sigma Mu 3, 4.

ALEXANDER JORDAN
Rifle Club 1, 2, 3, 4; Treasurer 2, 3; Chess Club 1; Athletic Association 2, 3, 4; Secretary 3; ASME 3, 4; Tau Beta Pi 3, 4; Pi Tau Sigma 3, 4; Arnold Air Society 3, 4; Honors Option 3.

JAMES C. KIMBARIS
ASME 3, 4; Work: Tung Sol Electric Inc.
JOSEPH E. KOPF
ASME 4. Work: Jabez Burns & Sons, Inc.

STEPHAN KOSONOCKY
Phi Eta Sigma 1; Tau Beta Pi 3; Pi Tau Sigma 3, 4; ASME 3, 4.

CARL H. KOCH, JR.

ALFRED A. KROLL
Class Council 1, 2; ASME 1, 2, 3, 4; 1957 Nucleus 4.

BERNARD J. KUCHTA
ASME 3, 4.

ERNEST S. KUHNEN, JR.
ASME 1, 2, 3, 4; Intramural Sports 1, 2; Student Council 2; Ski Club 3, 4; Arnold Air Society 4.

Don't mind if I do.
ADRIAN J. LA ROUCHE
ASME 3, 4; Pi Tau Sigma 4. Work: Elbert Lively & Co., Inc.

LAWRENCE W. KULLMAN
Tau Delta Phi 1, 2, 3, 4; Treasurer Tau Delta Phi 2, 3; President Tau Delta Phi 4; Class Council 2, 3, 4; ASME 3, 4.

FRANK J. MAFFEI
Class Council 1, 2, 3; Treasurer Class of 1957, 2; President Class of 1957, 3; ASME 3, 4; Vice President ASME 4; Omicron Delta Kappa 4; Pi Tau Sigma 4.

CHARLES W. MAGUIRE
Varsity Basketball Team 1, 2, 3, 4; Class Council 1, 2, 3, 4; President Class of "1957" 1; Vice President Class of "1957" 2; Dance Club 1, 2, 3, 4; Vice President Dance Club 4; ASME 3, 4; SAM 3, 4; President SAM 4; Sam's Song 3, 4; Professional Societies Council 4; Technician 4.

DONALD E. MAGAI
ASME 3, 4.

EDWARD R. MANSFIELD
ASME 4; 1957 Nucleus 4.

Now George is having trouble.
PAUL C. MONCOURTOIS
Student Council 1, 2; Rifle Team 2; ASME 3, 4; SAM 3, 4; Arnold Air Society 4.

ALAN J. MOORE
Bowling Team 2, 3, 4; Golf Club 3, 4; ASME 3, 4; Class Council 4.

ROBERT C. MOREHARDT
ASME 3, 4; ASME Corresponding Secretary 4; SAM 3, 4.

PAUL MOROZOFF
ASME 2, 3, 4; Alpha Sigma Mu 3, 4; GTC Society 3, 4; Varsity Bowling Team 3, 4; Secretary GTC Society 3; Vice President of GTC Society 4; Vice President AEM 4.

Hurry, it's catching up!

JEREMIAH G. MURRAY
ASME 3, 4; Golf Club 3, 4; Rod and Gun Club 3, 4.
JOHN NALLY

HOMER G. NASIS
ASME 3, 4; SAM 4. Work: Crucible Steel of America.

ARTHUR W. NEBIKER
Class Council 1, 2, 3; President Class of 1956 1, 3; Vice President Class of 1956 2; Student Council 1, 2, 3; Secretary of Student Council 2; Yacht Club 1, 2, 3, 4; ASME 2, 3, 4; Technician 2; Ski Club 3, 4; Dance Club 3, 4.

My drawings were always pretty silly too.

DAVID NELSON

JOHN J. NICHOLS

WILLIAM F. O'BRIEN, JR.
Newman Club 1; Rod & Gun Club 1; Dance Club 1, 2, 3; ASME 2, 3, 4; Intramural Softball 2; Intramural Basketball 2, 4; Ski Club 4.
ERNEST W. OEST
Intramural Basketball 1; Intramural Softball 1, 2; ASME 3, 4.

EDWARD J. PARKER
ASME 1, 3, 4.

VICTOR E. ORAVETZ, JR.

FRANCIS V. ORTMANN
Varsity Bowling 1, 2, 3, 4; Intramural Sports 1, 2, 3; Alpha Sigma Mu 2, 3, 4; ASME 3, 4.

GERARD M. PERNA
Intramural Sports 1, 2; Captain on Intramural Softball Team 1; Class Council 1; Dance Club 1, 2, 3, 4; Secretary-Treasurer of Dance Club 2; ASME 3, 4.

CHARLES W. PERRY
ASME 2, 3, 4; Work: Jet-Heet, Inc.

Everyone plays with the Harrisburg.
RALPH D. POCHANK
Intramural Basketball 1; Dance Club 1, 2, 3, 4; Pi Kappa Phi 2, 3, 4; Interfraternity Basketball 2, 3; Pi Tau Sigma 3, 4; Class Council 4; Treasurer of Class of 1957 4; Secretary of Pi Kappa Phi 3; President of Pi Kappa Phi 4; Technician 3, 4; ASME 4; Forensic Society 4, Omicron Delta Kappa 4.

JOHN POLCER
ASME 1, 2, 3, 4; Class Council 2, 3, 4; Dance Club 3; Advertising Manager of 1957 Nucleus 4.

RAYMOND H. QUIST
Phi Eta Sigma, Glee Club, ASME Pi Tau Sigma, Rod and Gun Club, Co-Editor 1957 Nucleus.

EDMOND RAY, JR.
Ski Club 1, 2; ASME 3, 4; SAM 3, 4; Corresponding Secretary SAM 4.

ELIO E. PRINCE
ASME 1, 2, 3, 4; Class Council 1, 2; Junior Varsity Fencing 1; Varsity Fencing 2; AEM Fraternity 1, 2, 3, 4; President AEM 4; Pi Tau Sigma 3, 4; Recording Secretary Pi Tau Sigma 4; GTC Society 3, 4; Tau Beta Pi 4; Omicron Delta Kappa 4.

FRED REINHARDT
ASME 3, 4; Work: Curtiss Wright Corp.
Now if Jerry could sleep with a glass of beer he'd be happy.

ROBERT G. SAMLER
JV Baseball Team 1; Varsity Baseball Team; 2, 3, 4; Golf Club 1, 2, 3, 4; Honors Option 2, 3; ASME 3, 4; Pi Tau Sigma 4; Dance Club 4.
FRED C. SCHALLER
ASME 4. Work: RCA.

RICHARD C. SANTA MARIA

HERRALD A. SCHUNK
Phi Eta Sigma 2, 3, 4; Phi Eta Sigma Treasurer 3; AIEE 2; Honors Option 2, 3; Pi Tau Sigma 3, 4; Pi Tau Sigma Treasurer 4; Omicron Delta Kappa 4; Tau Beta Pi 4; ASME 3, 4; SAM 3, 4; SAM Secretary 4; Honors Society Council Secretary 4.

ORIN A. SHARP, JR.
Phi Eta Sigma 1, 2; Vice President 2; Intramural Bowling 1, 2, 3, 4; Director 2, 3; Varsity Bowling 1, 2, 3, 4; Alpha Sigma Mu 1, 2, 3, 4; President 3; ASME 2, 3, 4; Omicron Delta Kappa 3, 4; President 4; Pi Tau Sigma 3, 4; President 4; Tau Beta Pi 3, 4.

JOEL A. SCHNUR
American Rocket Society 2; ASME 3, 4.

It won't last many more years at this rate.

ROBERT SHOTKIN
ASME 3, 4; Alpha Sigma Mu 3, 4; GTC Society 3, 4; Vice President CTC Society 3, 4.
DONATAS SKUCAS
Dance Club 1, 2, 3; Pi Tau Sigma 3, 4; Arnold Air Society 3, 4; Tau Beta Pi 4; ASME 3, 4.

CASIMIR J. SMIALOWICZ
Class Council 1; Dance Club 1, 2, 3; Treasurer 3; ASME 3, 4.

FRANK J. SOLTYS
Pi Kappa Phi 1, 2, 3, 4; Intramural Sports 1, 2; Newman Club 3, 4; ASME 3, 4; Pi Tau Sigma 3, 4; Corresponding Secretary Pi Tau Sigma 4.

ALFRED C. SOLDAVINI
Alpha Sigma Mu 2, 3, 4; SAM 3, 4; Intramural Athletics 3, 4.

PETER SPAAK
Phi Eta Sigma 2, 3; Honor Option 2, 3; Tau Beta Pi 3, 4; Tau Beta Pi Secretary 4; Pi Tau Sigma 3, 4; Pi Tau Sigma Vice Pres. 4; Omicron Delta Kappa 4; Honor Societies Council 4; ASME 3, 4; SAM 3, 4; Vice Pres. SAM 4.

RICHARD STAFFORD
Chess Club 1; Intramural Bowling 1; Intramural Basketball 1, 2; Yacht Club 2; Technician 2; ASME 3, 4.

Waaas always had a swelled head, right Bob?
ELBER W. STEARNS, JR.
Christian Fellowship 2, 3, 4; Tennis Team 2, 3, 4; ASME 3, 4; Co-Captain 4.

HANS STRUTZ

EDWARD STUMPF.
Class Council 1, 2, 3; ASME 1, 2, 3, 4; Tau Delta Phi 1, 2; Alpha Phi Omega 2, 3; Vice President 2, 3; Alpha Sigma Mu 2, 3, 4; Treasurer 3, 4; Fencing 3, 4; Manager 3, 4; GTC Society 3, 4; President GTC 3, 4.

RICHARD J. SULLIVAN III
Intramural Sports 1, 2, 3, 4; Director of Intramural Basketball 3; Dance Club 1, 2, 3, 4; Pi Kappa Phi 2, 3, 4; Inter-Fraternity Council 3; Newman Club 2, 3, 4; Class Council 2, 3, 4; Student Council 4; 1957 Nucleus 4, President of Athletic Association 4.

MYRON SYDOROWYCZ

No RPM's showing.

WALTER N. TABIT
MICHAEL J. TRUPPO
Kampus Kapers 1, 2, 3, 4; Class Council 1, 2, 3; Dance Club 1, 2, 3, 4; Model Airplane Club 1; Alpha Phi Delta 2, 3, 4; Intramural Baseball 2; ASME 3, 4; Interfraternity Council 3, 4; Vice President 4; Pi Tau Sigma 4; Student Council 4, Treasurer 4; Feature Editor of 1957 Nucleus 4; Newman Club 4.

HENRY TURKOT
Student Council 1; Bowling Team 2, 3. Work: Western Electric Instrument Corp.

NORBERT J. WASILESKI
Dance Club 1, 2; Intramural Sports 1, 2; Honors Option 3; ASME 3, 4; IBE 3; Alpha Sigma Mu 3, 4.

Now there's a good source of preheated air.

RICHARD A. WEBER
Intramural Basketball 1, 2, 3; Intramural Softball 1, 2; ASME 3, 4; Pi Tau Sigma 4.

WILLIAM H. WEIGEL
PAUL J. WENTINK, JR.

CHARLES E. WITHERELL
Pi Tau Sigma, Tau Beta Pi.

What, no coke?

KASMIR WITKIEWICZ
ASME 3, 4; Pi Tau Sigma 4. Work: Curtiss Wright Corp.

CHARLES W. WOOD
Intramural Softball 1, 2; Intramural Basketball 1, 2, 3, 4; Christian Fellowship Club 1, 2, 3, 4; Alpha Phi Omega 1, 2, 3, 4; Interclub Council 2, Secretary of Interclub Council 2.

RICHARD A. WITMONDT

CHARLES F. YERGER
EUGENE ZMYJ
Class Council 1, 2; Chess Club 1, 2; Chess Club Secretary 2; Soccer Team 3, 4; Dance Club 3; SAM 3, 4; SAM Treasurer 4; ASME 4.

JOHN CAMPBELL

GUENTHER A. SCHRADER

LOK MON TSOI
Not Pictured

MICHAEL BARILE

JOHN W. BAUER

PAUL BAUMANN

HENRY CARLOMAGNO

WILLIAM J. CATALANO

JOHN E. CLARK, JR.

WALTER DIEHL

JOHN J. CADEMARTORI
Student council 1-2-3, ASME 3-4, Tau Delta Phi 3-4, Class Council 4, Treasurer of Tau Delta Phi 4.

CLARENCE KOWALESKI
ASME 3; Work: Bell Telephone Laboratories

EMIL F. LEEMANN
ASME 3-4; Work: Kidde Manufacturing

ALVIN LINKE
ASME 3-4; Work: Manufacturer's Development Corp.

CHARLES E. OLIVER
ASME 3-4; Work: Reaction Motors Inc.
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