Newark College of Engineering
Newark, N. J.
We stand at the threshold of the sixties, a decade which promises great challenges and opportunities in science and engineering. We would like to dedicate this yearbook to those who have met the challenges of the past, and who, through their words of encouragement to us, have helped to show clearly the needs of the future.
The Class of 1961 has chosen "Change" as the theme for its yearbook. This is understandable, and undoubtedly appropriate, because change, in so many different fields, is occurring at a constantly increasing rate. We have become so accustomed to this fact that we forget, for instance, that when the Class of 1961 — your class — entered college in September, 1957, no satellites or Sputniks were circling the earth. Today, as I write this message, about six months in advance of its publication, nineteen are in orbit, to say nothing of others which have completed their prescribed cycles and then perished in the atmosphere.

While some change is necessary if civilization is to advance, you and I and all the rest of us should ask ourselves a searching question; i.e., whether change of itself always acts for the benefit of mankind. Certainly, we should never be carried away with change for change's sake.

We should hold fast to those verities and tenents which have been basic to the continued existence of free men and the American way of life. An all-inclusive list would be too long for the limited space available to me here, but I have in mind such things as respect for and a firm belief in the principles of honesty and decency; an appreciation of the importance of doing the best job possible, for the satisfaction derived from doing so, rather than solely for monetary or fringe benefits; the realization that no one in the final analysis gets something for nothing; dedication to the principle of giving each individual an opportunity to develop his talents to the fullest, regardless of race, creed or national origin; a firm belief in freedom of inquiry and freedom of speech; a strong faith in a Supreme Being and the ultimate triumph of right over wrong.

It is only by holding fast to these and other basic principles that we can retain for ourselves and pass on to our children those "unalienable rights" for which the founders of this country so bravely fought, in order to preserve the opportunity for "life, liberty and the pursuit of happiness."

R. W. VAN HOUTEN
WILLIAM HAZELL
Dean and Vice President

Dean Hazell received his B.S.E.E. from N.C.E. in 1930, and served as an engineering assistant with the Diehl Manufacturing Co. for the following three years. He joined N.C.E. in 1933 as an assistant instructor in Physics, rising rapidly to associate professor and head of the department of Physics and Mechanics in the evening technical school division. He became associate dean and director of admissions in 1945 and dean of administration in 1950. He was appointed vice president in 1959. Dean Hazell instituted N.C.E.'s instructor training program in 1954, and had charge of much of the operation and planning of faculty recruitment, curriculum revision, building construction, renovation and maintenance, and community services.

SUMNER J. HOUSE
Dean of Students

Dean House served in the Marine Corps on active duty from 1941 to 1947 and in the reserves from 1947 to 1958, when he retired as a Colonel. After teaching and counseling at the University of Nebraska, he was appointed dean of men and chairman of the Political Science department of Carol College in Wisconsin. In 1958 he became dean of students at N.C.E. His door is always open to any student who needs aid or counseling.

FRANK A. GRAMMAR
Dean of Admissions

Dean Grammar began as an English instructor at N.C.E. in 1950. As an associate professor, in 1939, he was placed in charge of the English department. By 1946 he was executive associate of both the English department and the Humanities group, and became dean of students and director of admissions in 1950. Due to increased enrollment, a division of duties was effected in 1958, and Dean Grammar now serves as dean of admissions.
DR. IRVING P. ORENS
Chairman of the Graduate Division

A professor in Physics at N.C.E. since 1946, Dr. Orens has taught at many other colleges, including, Clemson College and C.C.N.Y. In addition to teaching, he has participated in research in fixed gunnery with the U.S.A.F., and has served as chief in the Analysis Section of the U.S.N. Underwater Sound Laboratory.

DAVID H. MANGNALL
Registrar

Mr. Mangnall received his B.S.M.E. from N.C.E. in 1942. His industrial experience was interrupted by his tour of duty with the U.S.N. He returned to N.C.E. in 1946 as assistant to the dean. Since then he has served as evening supervisor, co-ordinator of Special courses and associate director of Special Courses. He is now assistant director of evening sessions and registrar.

HERBERT S. SOUTAR
Business Manager

Upon graduating from Union College with a B.S.C.E. in 1925, Mr. Soutar joined the City Surveyor Title Guarantee and Trust Co. In 1933 he became Cashier and Assistant Manager of the Fire Brokerage Co. He was appointed Payroll Auditor of the Great American Indemnity Co. in 1936. By 1943 he was Supervising Auditor for six plants of Walter Kidde and Co. He joined the N.C.E. staff in 1950 and now serves as business manager.
RICHARD BLANCHARD  
Director of Public Relations  
Mr. Blanchard received his B.A. from Union College in 1934 and his M.A. in English Literature from Columbia University the following year. From 1936 to 1944 he taught English at the Lyndon Normal School in Vermont. From 1944 to 1952 he held various positions with Previews Incorporated, including those of zone manager. He has been director of Public Relations at N.C.E. since 1952. He has served on various committees for engineering education including the executive committee for the New Jersey Public Colleges Bond Issue Referendum.

PROFESSOR C. E. STEPHANS  
Director of Relations with Industry and  
Director of Special Courses Division  
Prior to receiving his B.S.E.E. from N.C.E. in 1932, Professor Stephans was a member of the Bell Telephone Labs technical staff. He has taught at N.C.E. since 1933, being on the college staff since 1932 when he was in charge of cooperative work. From 1940 to 1945 he was supervisor in electrical subjects in N.C.E.'s War Training Program. He helped develop the Special Courses division as it is today. He also was an executive associate of the Personnel Relations department, serving as its chairman from 1950 to 1953.

DR. A. PEMBERTON JOHNSON  
Director of the Counseling Center  
Dr. Johnson directs the staff which tests all incoming freshmen for engineering aptitude, and tests all seniors for career preferences. Besides his active and reserve duty with the U.S.A.F., he has taught at Purdue University, where he served as co-ordinator of personnel guidance. He is well known for his work with the Educational Testing Service, being its assistant director of personnel from 1949 to 1955.
N.C.E.
Today

NEWARK TECHNICAL SCHOOL
FIRST CLASSES HELD AT
21 WEST PARK STREET
FEBRUARY 9, 1885

1896

THIS CORNERSTONE DEDICATED MAY 11, 1896.
WAS TAKEN FROM THE ACADEMIC BUILDING
OPENED TO CLASSES ON THIS SITE ON
JANUARY 4, 1897
To The Members of the Class of 1961
of Newark College of Engineering:

Throughout all recorded history, man has achieved progress for a reason that is most uncommon to other animals: he is curious. He is curious about life, the earth, and the universe.

He wonders: "What lies over the next hill?" Beyond the next star? The next bit of matter?

Without question, new knowledge... sparked by curiosity... has improved the lot of man. All of our modern conveniences had their origin in research that had no practical application at the time. Curiosity, too, drives man eternally to seek happiness and inspiration in other than material fields.

But what about you members of the Class of 1961? And your counterparts in other modern institutions of learning? It is your curiosity... and your new knowledge... that counts now.

The impetus to crack the secrets of the universe will come from you.

You are the ones destined to pierce the reaches of outer space.

In so doing, not only will you satisfy man's yearning for knowledge, but you will create a civilized culture never dreamed of before. You may even extend this culture to other worlds.

By conquering space, you will insure the immortality of the human race.

Class of 1961

In the space business we have a saying we use to describe the instant a rocket rises from the earth on its journey toward the stars. We call it, "Liftoff."

The transcendent achievements that you will see in the exciting realm of the future of all mankind now lie in your hands and your minds. This is a rather overwhelming thought, isn't it?

Only today has mankind garnered enough knowledge to really explore the world around him.

This knowledge is now yours.

I have only one bit of advice: Now is the time for the "Liftoff"

Sincerely,

Wernher von Braun
Director
Graduates of the Chemical Engineering department pursue careers in the process industries; developing practices in chemical manufacturing, designing and operating plants, as well as applying chemical engineering in non-chemical organizations.

Preparation for the BSChE includes work in specialized laboratories, allowing a student to follow processes from test tube scale to semicommercial scale, providing a basis for the estimating of large scale production.

Senior chemical engineering students observe the operation of several plants outside of the Newark area while on an extended trip during one of the regular college vacations.

Active participation is encouraged in the Student Chapters of the American Institute of Chemical Engineers and the American Chemical Society.
EDWIN OTTO EISEN
Omega Chi Epsilon, Secretary; Honors Option; AIChE; ACS, Secretary.

RICHARD P. GRIMM
ACS; AIChE; 1961 Nucleus; Alpha Sigma Mu.

GEORGE R. FERMENT
AIChE; ACS; Intramural Softball.

DONALD W. HAGEDORN
Phi Eta Sigma; Omega Chi Epsilon, President; Honors Option; AIChE; ACS.

WILLIAM R. HART, JR.
ACS; AIChE; Intramural Bowling.

STANLEY E. HASZKO
JOHN M. KANE
Honors Option; ACS; AIChE.

JOEL H. KAPLAN
Honors Option; AIChE; ACS; Vector Staff; Bridge Club; Chess Club.

ANTHONY W. KARAMBELAS
Phi Eta Sigma; AIChE; ACS; Nucleus Staff; Alpha Sigma Mu Fraternity; Intramural Basketball and Bowling.

STANLEY KIMMEL

EDWARD M. KOHLER
ACS AIChE; Intramural Basketball, Bowling, Baseball.

ALLAN J. KRATAVIL
RICHARD LESNIK
ACS; AIChE; Bridge Team; Intramural Softball, Basketball, Bowling.

WILLIAM A. LINDNER, JR.
AIChE.

LAWRENCE LEVINSON
ACS, Committee Chairman; AIChE; Intramural Softball, Basketball.

RICHARD LUCIANO
AIChE; ACS.

CARL A. MANN
Omega Chi Epsilon; Honors Option; Class Council; Tau Delta Phi Fraternity, Secretary; Dance Club, Vice President; Intramural Basketball, Softball.

THOMAS G. MASSAR
AIChE; ACS.
JOHN MATITS, JR.
ACS; AIChE, Treasurer; Intramural Basketball, Softball.

ROBERT MCCALL
Phi Eta Sigma; Omega Chi Epsilon; Honors Option; AIChE; ACS; Nucleus Staff; Alpha Sigma Mu Fraternity; Intramural Basketball.

ROBERT C. PASCOE

WALLACE E. POTTS, JR.

WILLIAM J. ROMANOW

PETER A. SEREICO
Sabre Air Command; Arnold Air Society; AIChE; ACS, Vice President; Class Council.
ANTHONY L. URBANO

SAMUEL A. WILSON

THOMAS WALSH
Honors Option; AIChE; ACS; Class Council; Intramural Softball, Basketball, Bowling, Volleyball.

JOHN V. ZELLERS
AIChE; ACS; Class Council; Alpha Sigma Mu, Vice President, Photography Club, President; Intramural Bowling.

GEORGE A. SMITH
ACS; AIChE, President; Omega Chi Epsilon, Vice President; Intramural Softball, Basketball, Bowling, Volleyball.

HAROLD STISKIN

SAMUEL A. WILSON

JOHN V. ZELLERS
Most of the other branches of engineering have developed from Civil Engineering. Its broad scope includes structural, transportation, hydraulic, and sanitary engineering, as well as surveying. Upon a strong foundation of the basic sciences is constructed a basic knowledge of economics and finance and the properties of engineering materials. Fundamental training in mechanical and electrical engineering is also required to complete the Civil Engineering program.

A fully equipped soils mechanics laboratory is maintained, as is apparatus required for model analysis and a surveying instrument room.

The subordination of primarily vocational courses has provided a program which presents the breadth of training necessary for the civil engineer.
FRANK B. BIRKNER
Chi Epsilon; ASCE.

STEPHEN CHUTSKY

RICHARD V. COMISO
ASCE; Pi Kappa Phi, Secretary; Newman Club; Rod and Gun Club, Vice President; IFC Football, Basketball, Softball; Intramural Basketball, Softball.

CHESTER COSGROVE
ASCE; Student Council Representative; Class President; Alpha Sigma Mu; Intramural Basketball, Softball, Bowling.

IHOR CZECELINSKYJ
ROBERT C. DOLECKI
ASCE; Intramural Basketball, Softball.

JOSEPH DORBIN
ASCE; Dance Club, Chess Club, Intramural Basketball, Softball, Volleyball; Badminton Tournaments.

HELEN JANET DREW
ASCE; Vector Staff; Newman Club; Kampus Kapers; Glee Club.

NEILL ERIKSON

VINCENT FALCHETTA
ASCE; Class Council, Vice President, Treasurer; Alpha Sigma Mu; Intramural Sports.

MASON FORD
Who's Who; Omicron Delta Kappa, President; Chi Epsilon, Vice President; Honors Option; ASCE; Student Council, President; Class Council, IFC, Pi Kappa Phi, President, Secretary, Warden; Varsity Basketball, Captain; Intramurals.
JOHN M. GIGER
Chi Epsilon; ASCE; Intramural Basketball.

THOMAS J. GILL

DANIEL S. GREENE

EDWIN W. GRIFFIN
ASCE, Treasurer; Student Council; Sigma Pi, Treasurer, President; Intramural Basketball, Softball.

JAMES HENRY
CHRISTIAN T. HOFFMAN, JR.
Phi Eta Sigma; Chi Epsilon; Tau Beta Pi, Recording Secretary; ASCE.

ANATOLIJ KULYK
Chess Clubs; Varsity Soccer; Intramural Bowling, Badminton, Volleyball, Softball, Basketball.

JOHN M. LEITCH
Chi Epsilon; Honors Option; ASCE.

ROBERT F. LeMASSENA
ASCE; Sigma Pi.

J. ANTHONY LOCK
Honors Option; Intramural Basketball.

THOMAS A. LOVITO
JOHN MAHONEY

WILLIAM O. MINCHER

ARNOLD P. MOSKOWITZ
ASCE; Varsity Basketball; Intramural Softball, Basketball.

RODNEY NOEL

JOHN HENRY OLSON
ASCE; Class Council; Alpha Sigma Mu.
JERRY PADULO
ASCE; Class Council; Alpha Sigma Mu.

FRANCIS R. PERKINS
ASCE; Class Council.

RICHARD PRESSEL

RICHARD E. ROHRBACH
ASCE; Class Council; Dance Club, Yacht Club; Phi Beta Tau; IFC; Intramural Basketball, Bowling.

GEORGE ROMAN
Who's Who; ASCE; IFC, President; Phi Beta Tau, President; Vector, Sports Editor; Nucleus, Photography Editor; Intramural Basketball.

PETER RUSCHMEIER
ASCE.
LAWRENCE L. SMITH
Chi Epsilon; Honors Option; ASCE; ASM; Varsity Soccer; Intramural Basketball, Volleyball.

H. A. STAEGER

JAY STEMMER
Pi Kappa Phi; Fencing Team; Kampus Kapers, Treasurer; Newman Club; Intramural Softball, Basketball, Volleyball, Bowling.

MARIE T. TAYLOR
Chi Epsilon; Honors Option; ASCE; Class Council; Vector, Staff; Kampus Kapers; Glee Club; Russian Study Club; Photography Club, Secretary.

RONALD E. TEDESCO
ASCE; Class Council; Nucleus Staff; Alpha Sigma Mu, President.

DAVID L. WINGERTER
Chi Epsilon; ASCE.
DEPARTMENT OF ELECTRICAL ENGINEERING

It is the aim of the electrical engineering department to educate as broadly as possible so as not to restrict the electrical engineer's employment possibilities upon graduation. Courses emphasize basic principles and concepts, and their interrelations upon the operation and design of electrical devices are stressed. These principles are verified and applied in well-equipped laboratories. The student performs the laboratory work himself, guided by the instructor who has taught him the theory.

Interest is stimulated in the professional aspects of electrical engineering by active student participation in branches of the American Institute of Electrical Engineers, the Institute of Radio Engineers, and Eta Kappa Nu.
DONALD C. BECK
Intramural Basketball, Baseball.

RUDOLPH B. BENDA
Honors Option; IRE.

EDWIN W. BENNETT
Honors Option; AIEE; IRE; Student Council; Dance Club; Newman Club; Pi Kappa Phi, Warden, Chaplain; Intramural Bowling, Basketball, Softball, Volleyball.

EDWARD L. BENZ, JR.
Honors Option; AIEE; IRE; Intramural Baseball.

DAVID B. BEYER
Honors Option; AIEE; IRE; Intramural Baseball.
HAROLD BLACK

DONALD E. BLAHUT
Honors Option; IRE; Intramural Basketball, Softball.

JOSEPH S. BOSCHI
Honors Option; Class Council; Alpha Phi Delta, Recording Secretary; Fencing Team; Intramural Baseball, Basketball, Bowling.

BRIAN F. BRACKLE
AIEE, IRE; Student Council; Intramural Basketball.

ROBERT J. BROZEK
Honors Option; IRE; AIEE.

FRANK BRUNO
PAUL E. BUTZIEN

RALPH W. CARFI

IRWIN CHINSKY
Student Council; IFC; Phi Beta Tau; Yacht Club; Dance Club; Table Tennis Club; Varsity Soccer, Manager; IFC Basketball, Softball; Bowling; Intramural Bowling, Basketball, Softball.

ANTHONY CILENTO
Honors Option; IRE; Student Council, Treasurer; Alpha Phi Delta, Secretary; Nucleus; IFC Basketball, Baseball; Intramural Basketball, Baseball.

RICHARD COSTABILE
Honors Option; IRE; Student Council, Treasurer; Alpha Phi Delta, Secretary; Nucleus; IFC Basketball, Baseball; Intramural Basketball, Baseball.

RICHARD MICHAEL D'ADDARIO
Honors Option; IRE; Student Council, Alpha Phi Delta; IFC Football, Basketball; Intramural Basketball, Softball.
JAMES F. DAY
Eta Kappa Nu; Honors Option; Intramural Basketball, Softball.

ALFRED DELEASA
Honors Option.

VITO G. DEL GUERCIO
Honors Option; IRE; Nucleus Staff; Class Council; Tau Delta Phi; Intramural Basketball, Baseball, Volleyball.

RICHARD DISMAN
Honors Option; IRE; Nucleus Staff; Class Council; Tau Delta Phi; Intramural Basketball, Baseball, Volleyball.

FRANK J. DYNDA
J. F. ENGLISH

GERALD J. FOSCHINI
Honors Option; AIEE; IRE; Class Council; Intramural Basketball.

HERMAN W. ERICHSEN

W. FISCHER
Honors Option; Arnold Air Society; Intramural Baseball.
JOSEPH J. FRIEND
Tau Beta Pi; Honors Option; IRE; Student Council; Class Council; Interclub Council; President; Pi Kappa Phi, Historian; Kampus Kapers, President; Intramural Basketball, Softball, Bowling.

JAMES L. GIAMBALVO
Honors Option; IRE; Alpha Sigma Mu; Intramural Basketball.

P. P. GIORDANO

DOMINICK J. GIORDANO

WARREN GLANDER

STEPHEN GOLDSTEIN
GIBERT A. HERLICH, JR.  
IRE; Class Council; Intramural Basketball, Volleyball.

JOHN PHILIP HASELMANN  
IRE; AIEE; Class Council; Varsity Basketball, Table Tennis; Intramural Basketball, Volleyball.

BEAUFORD E. HENDERSON  
AIEE; Photo Club.

WALTER T. HARTWELL  
Honors Option.

JOHN HERZO, JR.  
IRE; Class Council; Intramural Basketball, Volleyball.

CHARLES H. HELLER
JOSEPH A. HNAT
Phi Eta Sigma; Honors Option; IEEE; Northern New Jersey Student Representative; **Nucleus**, Business Staff; Intramural Basketball, Volleyball, Baseball.

EUGENE HOLMES
Eta Kappa Nu; Honors Option; IEEE; AIEE; Yacht Club.

ROBERT B. HOWARD
IEEE.

JERROLD L. JACOBS
AIEE.
STANLEY JACOBS
AIEE; IRE; Intramural Basketball.

DONALD JORGENSEN
Eta Kappa Nu; Honors Option; IRE; AIEE; Metropolitan Joint Student Council of IRE-AIEE; Chairman; Class Council; Alpha Sigma Mu, Recording Secretary.

I. H. JOSEPHS

JOHN F. JOYCE
AIEE; IRE; Pi Kappa Phi; Kampus Kapers; Dance Club; Intramural and IFC Basketball, Softball, and Volleyball.

MARTIN KAMENTSKY
Honors Option; IRE.

TED KERN
AIEE; IRE; Nucleus Staff; Newman Club; Bridge Club; Glee Club; Intramural Basketball, Volleyball, Bowling, Softball.
MURRAY LIEB
Intramural Basketball, Bowling.

JOSEPH G. LONGO

ROBERT R. LORENTZEN

LOUIS J. LOUME
IRE.

WALTER G. MARGERUM
IRE.

ROBERT C. MARGIOTTA
PATRICK L. McGEOUGH
AIEE; IRE.

NEILL McKAY
Varsity Tennis Team.

GEORGE METTLER

WILLIAM F. MORGAN

ALFRED R. MORLEY
JOHN E. MOYE
AIEE, Secretary, Chairman; Class Council; Alpha Sigma Mu; Intramural Bowling.

MICHAEL A. MULSHINE
Honors Option; IRE; Student Council; Class Council, Sigma Pi, Vice President; Secretary; Athletic Association, President, Secretary; Intramural Basketball; Varsity Soccer, Manager.

HAROLD J. MUNIZ
AIEE; IRE; ARS; Radio Club.

EUGENE NIEMIEC

A. MICHAEL NOLL
Eta Kappa Nu, Corresponding Secretary; Honors Option; IRE; Class Council; Interclub Council, Secretary; Audio Club, President.

JOHN J. OLIVA
Honors Option; AIEE; IRE; Arnold Air Society.
RICHARD J. OTERO
Honors Option; AIEE; Arnold Air Society; Editor Log NCE.

ROBERT J. PAPAIECK

WALTER PELISH
IRE; Alpha Sigma Mu.

A. R. PIRATZKY

W. C. POLAND, JR.
FRANK POLIZZI
IRE; AES.

WILLIAM PORTER
IRE, Chairman; AIEE; Alpha Sigma Mu.

RICHARD QUODOMINE
IRE; Alpha Phi Omega, President, Vice President, Secretary; Kampus Kapers, Vice President; Chess Club, Vice President; Radio Club, Secretary, Treasurer; American Rocket Society, Mars; Newman Club; Intramural Bowling, Chairman; Intramural Softball, Volleyball.

NORMAN J. POWELL  
IRE; AIEE, Vice Chairman, Treasurer; Alpha Sigma Mu, Social Chairman, Intramural Bowling, Basketball, Softball.

JOSEPH J. RAYMOND
IRE; AIEE, Vice Chairman, Treasurer; Alpha Sigma Mu, Social Chairman, Intramural Bowling, Basketball, Softball.

LOUIS M. REDZINAK
AIEE; IRE.
ROBERT A. REINMAN
Honors Societies Council, Chairman; Tau Beta Pi, Vice President; Phi Eta Sigma, Vice President, President, Senior Advisor; Eta Kappa Nu, Vice President; Who's Who; Arnold Air Society, Comptroller; Newman Club, Bridge Club; Intramural Sports.

ANTHONY T. ROMANO
AIEE, IRE, Vice Chairman; Metropolitan Joint Student Council AIEE-IRE Representative; Class Council, 1961 Nucleus, Editor; Alpha Sigma Mu; Intramural Basketball, Bowling.

DONALD RONAN
IRE.

EARL ROSE, JR.

JOHN P. RYABY
RALPH M. SEELAGY
Honors Option; Intramural Basketball, Softball.

WILLIAM M. SHANNON
IRE; Yacht Club.

EDWIN A. SHELL
IRE.

CHARLES G. SIEGFRIED
Phi Eta Sigma; Tau Beta Pi; Eta Kappa Nu; Honors Option; AIEEE; Class Council; J.V. Tennis, Intramural Softball.

MICHAEL F. SIKORSKY
JOSEPH D. SIMONE

THEODORE H. SIMONSEN
Honors Option.

CHARLES WILLIAM SOSINSKI
AIEE; IRE; Intramural Bowling, Softball.

RICHARD SPADAVECCHIA
IRE.

THOMAS STAFFORD
Eta Kappa Nu; Honors Option; Varsity Bowling.

WILLIAM A. STEPHENSON
AIEE; ABS; IRE.
ROBERT B. STEWARD
IRE; Radio Club; Intramural Bowling.

M. TADDEO
IRE.

PETER SZABADOS
AIEE; Bridge Club; Varsity Soccer.

CORNELL S. STRADLING
Eta Kappa Nu; Arnold Air Society; Honors Option; AIEE; Class Council; Nu-
clear; Features Editor; IFC; Tau Delta Phi; Intramural Basketball, Volleyball, Softball.

M. TADDEO
IRE.

ROBERT G. TAYLOR
Arnold Air Society; Varsity Basketball; Varsity Baseball.
JOHN TERNINKO
Phi Eta Sigma; Eta Kappa Nu; Omicron Delta Kappa; Vice President; Tau Beta Pi; Honors Option; Nucleus Staff; Varsity Fencing, Captain; Varsity Tennis; Intramural Basketball, Volleyball, Softball.

A. NORMAN TERRERI
AIEE; ARS; Student Council Representative; Class Council; Alpha Sigma Mu; Warren Club; Intramural Basketball.

RUDIGER W. TIETZE
IRE; Radio Club; Photography Club; J.V. Soccer; Varsity Soccer; Intramural Basketball.

PETE C. VAN DER SLUYS
Honors Option; Arnold Air Society.

OSCAR WEINSTEIN
Tau Beta Pi; Eta Kappa Nu; Honors Option; AIEE.

GEORGE WOJTOWICZ
AIEE; IRE; Nucleus Staff; Audio Club; Warren Club; Intramural Bowling, Basketball.
J. L. WOODRUFF

GERALD ZABINSKI
IRE; Yacht Club.

RICHARD ZACK

LOUIS D. ZACHAU, JR.

GEORGE P. ZAZZALI
AES, IRE; Yacht Club; Intramural Bowling, Softball.
The curriculum of the Management Engineering Department is designed to meet the joint needs of engineering and industry as they have developed in the last two decades. On the undergraduate level the department serves the purpose of a service and semi-professional department.

Its Economics, Business Law, Engineering Cost Analysis, and Industrial Management courses supplement the purely technical education of the several professional departments.

Its Management Option, administered jointly with the Mechanical Engineering Department, prepares the student for his first step as an engineer-manager in the industrial world.

The student chapter of the Society for the Advancement of Management begins the student's professional development.
RALPH SCOTT BRENNESHOLTZ
Honors Option; ASME; AIIE; SAM.

FRANCIS XAVIER BROWNE
ASME; SAM; AIIE; Class Council.

DAVID J. CARLSON
ASME; SAM; AIIE.

DAVID C. CONNELL

DAVID C. FEISNER, JR.
ASME; SAM; AIIE; Orbit.
FREDERICK W. GAINES
ASME; SAM; AIIE; Christian Fellowship; Intramural Softball, Basketball.

ALEX W. GALL
AIIE; SAM.

GEORGE J. GOEPFERT

RALPH T. HANSEN

PETER J. HNAT
ASME; AIIE; SAM; Class Council; Samaritan, Associate Editor, Intramural Softball, Basketball.

GEORGE A. KATZENBERGER, JR.
Pi Tau Sigma; Honors Option; ASME; SAM; Alpha Sigma Mu.
NORMAN S. KENDALL
SAM, Vice President; AIIE, Vice President; IFC, Secretary-Treasurer; Tau Delta Phi.

RALPH KNAUER

PETER A. LALLY

WILLIAM B. MAY
Pi Tau Sigma; Honors Option; ASME; AIIE; Vector, Advertising Manager.

MILTON J. MARTIN
ROBERT J. McEWEN

RAYMOND A. McFARLANE

K. P. MILLER

Pi Tau Sigma; ASME; AIIE; SAM; Vector, Makeup Editor.

MICHAEL H. MOTTIER

SAM; Audio Club.

GEORGE POST

Arnold Air Society; Honors Option; SAM; AIIE.

PHILLIP REDDEN

Professional Societies Council, President; SAM, President; AIIE, President; Intramural Softball; Table Tennis Club.
NORMAN SEVRIN

BARRY JOSEPH SHANDLER
Omicron Delta Kappa; Who's Who; Honors Option; AIIE; SAM; Publications Council, President; Vector, Editor; Pi Delta Epsilon, Vice President; Phi Beta Tau; Intramural Basketball, Softball.

ALEXANDER F. SMEATON, JR.

STEPHEN M. VARMUZA, JR.
ASME; SAM; Pi Kappa Phi; Wrestling Club, President; Intramural Bowling.

CARL L. VRABEL.
The Mechanical Engineering curriculum is based upon an emphasis of theory in the junior year, followed by an application of that theory in the senior year. Courses are designed to provide an insight into the methods available for putting theory into practice. Laboratory courses further this aim by developing a respect for, and an acquaintanceship with, the testing procedure.

The Mechanical Engineering Laboratory is devoted to special phases of experimental and testing engineering; other areas of mechanical engineering being explored in the Metallurgy, Metallography, and Machine Tools Laboratories.

Active student participation in the American Society of Mechanical Engineers is encouraged in order to establish a professional attitude early in the engineering career.
STEPHEN D. BOYLAN
ASME; Rod and Gun Club, Treasurer; Intramural Basketball, Softball.

DOMINIC CICCHINO
ASME.

ALLAN R. BUDRIS
ASME; Alpha Phi Omega, Vice-President; Kampus Kapers; Intramural Bowling.

FRANCES R. CALLANAN
Pi Tau Sigma, Recording Secretary; Phi Eta Sigma; Honors Option; ASME; Class Council, Corresponding Secretary; Technician; Cheerleader; Newman Club, Treasurer.

DOMINIC CICCHINO
ASME.

FRANK G. CICCOLELLA
ASME; Alpha Phi Delta, Corresponding Secretary, Pledgemaster, Treasurer.
THOMAS J. COOK
ASME; Sigma Pi Fraternity; Photo Club; Intramural Basketball, Bowling.

MAUREEN C. CRONIN
Honors Societies Council, Secretary; Alpha Phi Omega, President; Who's Who; ASME; Class Council, Corresponding Secretary; Technician; Nucleus; Steam Lines; Athletic Association; Cheerleaders, Co-Captain; Kampus Kapers, Secretary; Russian Study Club; Newman Club; Photography Club.

GEORGE J. DAVISON

JOSEPH De LORENZO
Alpha Phi Delta.

JOSEPH De PASQUALE
ASME; Intramural Bowling.
ANTHONY A. Di CERBO

FRED DAN Di MARIA
Pi Tau Sigma; Honors Option; ASME.

JOHN E. DICKISON

ROBERT DLOUHY
Phi—Eta Sigma, Secretary; Arnold Air Society; ASME; Student Council; IFC; Pi Kappa Phi; Newman Club, Secretary, President; Chess Club, President; Intramural Basketball, Softball, Volleyball; IFC Basketball, Softball, Football.

WILLIAM J. DONNELLY
Honors Option; ASME; Class Council; IFC Basketball, Sigma Pi; Intramural Basketball, Football.

BERTIL ECK
Arnold Air Society; ASME.
WILLIAM J. EHNER

JACINTO FERNANDES
Honors Option; ASME; Class Council; Intramural Softball, Basketball, Volleyball, Bowling.

G. FREIMUTH
Varsity Soccer.

GEORGE N. GEISSLER
Honors Option; ASME; Intramural Bowling.

LOUIS F. GIANNUZZI
Pi Tau Sigma, Corresponding Secretary; Honors Option; ASME; Alpha Sigma Mu; Rod & Gun Club.

PATRICK GINTY
ASME; Glee Club; Dance Club.
LESLIE H. GOLDSTEIN
Pi Tau Sigma; Pi Delta Epsilon; Honors Option; ASME; Class Council; Vector; Orbit; Features Editor; Nucleus; Steam Lines; Editor; Intramural Basketball, Bowling, Softball, Volleyball.

DAVID B. HAGAN
Honors Option; ASME, Vice-President; Intramural Basketball.

DONALD A. GUARINO
Honors Option; ASME; American Rocket Society.

RONALD N. HATCHER
Tau Beta Pi; Pi Tau Sigma; Arnold Air Society; Honors Option; ASME; ROTC Cadet Colonel.

GEORGE A. HAZELRIGG, JR.
Pi Tau Sigma; Honors Option; ASME.

CHARLES F. IMBESI
ASME; Intramural Basketball, Softball, Volleyball.
MICHAEL JACOBS
Honors Option; ASME; Class Council; Intramural Basketball, Bowling, Softball.

JOHN J. JAMISON
Who's Who; Honors Option; ASME; SAM, Student Council, Corresponding Secretary; Vector; Nucleus; IFC; Pi Kappa Phi, Secretary; Newman Club, Vice President, Treasurer; Intramural Basketball; IFC Basketball.

EDWARD R. KENT
ASME; Sigma Pi; Intramural Basketball, Bowling, Softball.

ALBERT M. KLEIN
ASME; Intramural Softball.

DONALD B. KNOX
ASME; Class Council; Sigma Pi; Interfraternity Basketball, Softball; Photography Club; Intramural Basketball.

ALEX T. KOJAK
PETER KOTCH
ASME; Class Council; Intramural Basketball, Bowling, Softball.

RICHARD H. KROLL
ASME; American Rocket Society, Vice-President, President; Alpha Phi Omega; Audio Club; Rod & Gun Club.

VYTA KVEDARAS

DONALD J. LACEY
ASME; American Rocket Society; Class Council; IFC; Alpha Sigma Mu; Intramural Basketball, Softball.

ARTHUR G. LEHBERGER
ASME; Class Council, Intramural Bowling, Softball.
JOSEPH MAKOWSKY, JR.
ASME; American Rocket Society; Class Council; Newman Club; Editor Newman Bulletin; Dance Club; Intramural Basketball, Bowling.

ALFRED A. MARDARELLO
ASME; American Rocket Society; Alpha Phi Delta; Intramural Badminton, Basketball, Bowling.

EDWARD J. McMAHON
ASME; Class Council; Phi Beta Tau; Dance Club; Yacht Club; Intramural Basketball.

HARVEY MORGINSTIN
ASME; AIEE; Tau Delta Phi; Kampus Kapers.

DONALD A. NEWBERY
Phi Eta Sigma; Pi Tau Sigma; Honors Option; ASME; Class Council; Alpha Sigma Mu.

GERARD O'DONNELL
ASME; Nucleus; Alpha Sigma Mu.
EDWARD C. OSWANDEL  
ASME; Student Council; Class Council; Nucleus, Circulation Manager; Sigma Pi; Intramural Bowling, Basketball.

JOSEPH P. PELOGHITIS  
ASME; Honors Option; Class Council; Alpha Sigma Mu; Red and Gun Club; Intramural Softball, Basketball.

PETER J. PAICER  
Pi Tau Sigma; Honors Option; Who's Who; ASME; Class Council, Treasurer, Vice President; Nucleus, Business Manager; IFC; Alpha Sigma Mu; Table Tennis Club; IFC Basketball; Intramural Sports.

CHESTER PENTLICKI  
ASME; ABS; Rocket Club.

ANTHONY M. PIZZA  
ASME; Arnold Air Society; Honors Option; Class Council; Alpha Phi Delta, Vice President; Newman Club; Intramural Softball, Bowling, Basketball, Volleyball.

F. X. PRENDERGAST  
65
JOHN R. RAMSAY
ASME, Treasurer; Pi Tau Sigma; Honors Option; Alpha Sigma Mu; Rod and Gun Club, Treasurer.

ROBERT REISMAN
ASME; Intramural Softball, Basketball.

LEROY J. RIPPER
ASME, Sabre Air Command—Sergeant-at-Arms; Arnold Air Society; Kampus Kapers; Glee Club; Intramural Softball, Basketball.

CAROL F. ROSE
Who's Who; ASME, Secretary; Class Council, Recording Secretary; Nucleus, Literary Editor; Steam Lines; Athletic Association; Cheerleaders, Co-Captain; Kampus Kapers.

GEORGE J. SCHNABEL
Pi Tau Sigma; Honors Option; ASME; ASTM.

GERARD F. SCHOMBERG
ASME, Varsity Bowling, Captain; Alpha Phi Omega.
JEFFREY W. SCHRAM
ASME; Honors Council; Phi Eta Sigma, Treasurer; Omicron Delta Kappa; Pi Tau Sigma, President; Honors Option; Class Council, Varsity Tennis, Captain; Intramural Bowling.

MORTON SHOR
ASME; Intramural Softball, Basketball.

MARK SIMON
Pi Tau Sigma, Treasurer; Honors Option; ASME; Steam Lines; Intramural Basketball, Softball.

WILLIAM D. SINGER
ASME.

JOSEPH T. SOVA, JR.
ASME; Intramural Softball, Basketball.
THOMAS SOWIS
ASME; Intramural Softball, Basketball.

THOMAS J. STOCKAGE

JACK W. STUMPF
Pi Tau Sigma, Vice President; Professional Societies Council; ASME, President; Rod and Gun Club, President, Secretary; Intramural Basketball, Volleyball, Baseball.

JOSEPH F. TARTAGLIA
ASME; Student Council; Intramural Bowling, Co-director; Intramural Basketball, Softball.

FRANK E. TREMAIN

JOSEPH UNTERKOFLER
ASME; Rifle Club; Radio Club.
JOHN E. C. VALENTIN, JR.
Pi Tau Sigma; ASME.

RONALD VOGT
ASME.

NORMAN WEINS
ASME; Intramural Softball, Basketball, Volleyball.

HENRY I. ZELISSE
ASME; Class Council; Glee Club; Intramural Softball, Basketball.

SIEGFRIED ZIERAU
Tau Beta Pi; Pi Tau Sigma; Honors Option; ASME.
To the Class of 1961:

with the travail of final examinations behind you and the challenge
of your first but still ahead, you now have a moment to reflect, assess
your prospects, and set your goals. What you make of your engineering
education depends on your individual effort and ambition as an
object in life. You may decide to use your engineering degree as your
stepping stone to a career in business administration, or you may choose to
practise engineering as a profession. In the second case, your
education will be administrative in the second, creative, and which will offer you the greatest satisfac-
tion. I cannot stress too strongly that you must be prepared to accept the
strains of the profession, particularly your own profession
of engineering. Traditionally, engineering has been held in esteem because
the educational content has been impressive—its usefulness patent to every
man. Furthermore, the profession has been held in high regard because of its
status and character, which is based on the accomplishments of its
members. In every intimate sense, his own specialty in a professional
vocation is his own specialty in a profession.

In summary, the educational content and the profession of engineering
are the most important aspects of the engineer's profession. The
troth to the profession of engineering is its own justification. The
time is ripe to make a great difference to future generations.

Sincerely yours,

John S. Richardson
Vice Admiral, USN
ROBERT EDWARD ANDERSON • Professor of E.E.,
Exec. Associate of E.E. Department
M.S.E.E. University of New Hampshire—1948
B.S.E.E. Newark College of Engineering—1939

HENRY G. AYOUB • Instructor of E.E.
B.S.E.E. Alexandria University—1947
B.S.M.E. Alexandria University—1948
M.S.M.E. Newark College of Engineering—1950

ROBERT E BANNON • Associate Professor of M.E.
B.S.Ch.E. University of Notre Dame—1928
S.M. Metallurgy Massachusetts Institute of Technology—1930

CHARLES BARBAZ • Assistant Instructor of Ch.E.
B.S.Ch.E. Newark College of Engineering—1955
M.S.Ch.E. Newark College of Engineering—1957

HRACH BEDROSIAN • Special Lecturer of P.D.I.R.
B.A. Rutgers University—1951
M.S. City College of New York—1953

CARL V. BERTSCH • Professor of Phys.
B.S. University of Michigan—1928
M.S. University of Michigan—1931
Ph.D. University of Michigan—1937

JAMES A. BRADLEY • Professor of Ch.E.
B.A. Harvard University—1914
M.A. Harvard University—1920

M. LELYN BRANIN • Professor of Chem., Chairman of
Chem. Department
B.S. Purdue University—1923
A.M. Columbia University—1930
Ph.D. University of Michigan—1934

WILLIAM D. BROWER • Instructor of Math.
B.S. in Math. St. Peter’s College—1951
PAUL I. CAMBRELENG • Professor of P.D.I.R., Exec. Associate of P.D.I.R. Department
B.A. in Eco. Rutgers University—1935

ACHILLE CAPECCELATRO • Professor of Phys.
B.S.E.E. Rensselaer Polytechnic Institute—1936
M.S. Rensselaer Polytechnic Institute—1937
Ph.D. Rensselaer Polytechnic Institute—1939

ROBERT CASCIANO • Assistant Instructor of Ch.E.
B.S.Ch.E. Newark College of Engineering—1959

CHUNG-WEI CHOW • Instructor of E.E.
B.S.E.E. Chia-Tung University, Shanghai, China—1947
M.S.E.E. Oregon State 1960

MATTHEW CIESLA • Instructor in Phys.
B.S.M.E. Newark College of Engineering—1957
M.S.M.E. Newark College of Engineering—1959

WARREN H. CRATER • Associate Professor of Eng.
A.B. Lafayette University—1942
A.M. Columbia University—1946
B.D. Drew University—1989

MICHAEL DAVID DISKO • Assistant Instructor of C.E.
B.S.C.E. Newark College of Engineering—1959

JOHN V. DROUGHTON • Assistant Instructor of M.E.
B.S.M.E. Rutgers University—1959

HERBERT DRUKS • Instructor of Eng.
B.A. in Hist. City College of New York—1958
M.A. in Hist. Rutgers University—1959

CHARLES H. DUURSEMA • Associate Professor of Phys.
B.S.M.E. Newark College of Engineering—1933
M.A. Montclair State College—1936

HERMAN A. ESTRIN • Professor of Eng., Exec. Associate of Eng. Department
A.B. Drew University—1937—Cum Laude
A.M. Columbia University—1942
Prof. Diploma Columbia University—1950
Ed.D. Columbia University—1954

LLOYD M. FELMLY • Professor of Eng., Chairman of Eng. Department
Ph.B. Lafayette University—1916
Hon. Litt. D. Lafayette University—1943
Hon. D.H.L. Rutgers University—1956

FREDERICK P. FERNSLER • Associate Professor of Eng.
Ph.B. Muhlenberg College—1929
M.A. University of Pennsylvania—1941

RONALD J. FISCHER • Assistant Instructor of Math.
B.S.E.E. Newark College of Engineering—1960

JAMES H. FITTHIAN • Professor of Math.
A.B. Lafayette College—1920
M.A. in Math. Brown University—1924
M.A. in Math. Princeton University—1926
JOSEPH M. FITZGERALD, JR. • Associate Professor of Chem., Exec. Associate of Chem. Department
B.S. Seton Hall University—1942
M.A. Montclair State College—1950

A. E. FOSTER • Associate Professor of Math.
B.S. in Math. University of Tennessee—1943
M.A. in Math. University of Tennessee—1944
Ph.D. in Math. University of Kentucky—1951

CAPTAIN MAURICE H. FOSTER • Assistant Professor of Air Science

MICHAEL FREDERICK • Associate Professor of Ch.E.
B.S Ch.E. Newark College of Engineering—1931
M.S. New York University—1938

PAUL FRIEDMAN • Assistant Instructor of Chem.
B.S. City College of New York—1950
M.A. Brooklyn College—1957

S./SERGEANT RICHARD A. FRYER • Instructor of Air Science

PHILLIP T. FUNKE • Instructor of Chem.
B.S. University of Puget Sound—1954
M.S. Stevens Institute of Technology—1956

THOMAS F. GILROY • Instructor of P.D.I.R.
B.S. Bus. Adm. St. Peter's College—1956

JOSEPH GIORDANO • Assistant Instructor in Phys.
B.S. Wagner College—1951
ROBERT G. GOLDEN, JR. • Instructor of E.G.
A.B. Little Rock College—1951
B.S.M.E. Newark College of Engineering—1956

IRVING R. GOLDSTEIN • Associate Professor in I.E.,
Act. Exec. Associate of I. E. Department
B.S. Newark College of Engineering—1939
M.S. Stevens Institute of Technology—1947

GERALD GRANIK • Assistant Professor of Phys.
B.S.M.E. Newark College of Engineering—1950
M.S.M.E. Newark College of Engineering—1954
M.S. Stevens Institute of Technology—1958

BERNARD A. GREENBAUM • Associate Professor of Phys.
B.S. Long Island University—1933
M.S. New York University—1934

MAJOR CARROL HAMENT • Assistant Professor of Air
Science, Exec. Associate of Air Science Department
B.S.
LL.B.

PAUL C. HAUSSEM • Assistant Professor of Phys. Ed.
B.S. in Ed. Panzer College—1950
M.A. in Ed. Columbia University—1954

JOHN J. HANUS • Assistant Professor of E.G.
B.A. in Fine Arts Marietta College—1950
M.A. in Fine Arts Bradley University—1953

ALLEN H. HOLLINGSWORTH • Assistant Instructor
of E.E.
B.S.E.E. Newark College of Engineering—1959

JUI SHENG HSIEH • Associate Professor of M.E.
B.E.M.E. National Wu-Han University, China—1943
M.S.M.E. University of Kent—1950
Ph.D.M.E. Ohio State University—1955

ROBERT M. JACOBS • Assistant Professor of M.E.
B.S.M.E. Bucknell University—1944
M.S.M.E. Bucknell University—1949

CLARENCE S. JOHNSON • Assistant Professor of Eng.
B.A. Montclair State Teachers College—1949
M.A. Montclair State Teachers College—1951

NELSON C. KEABLES • Associate Professor of Eng.
A.B. Middleburg College—1938
M.A. New York State College—1939

GEORGE C. KEFFEE • Professor of Ch.E., Exec. Associate
of Ch. E. Department
B.S. Newark College of Engineering—1932
Ch.E. Newark College of Engineering—1935
M.Sc. New York University—1936

ROBERT KIEHL • Professor of P.D.I.R.
B.A. Columbia University—1932
M.A. Teachers College—1947
Ph.D. Rutgers University—1957

BERNARD T. KINGERY • Assistant Professor of Phys.
B.S. Georgia Southern College—1948
M.A. Columbia University—1949
CARL KONOVE • Associate Professor of Math.
B.S.Ch.E. Newark College of Engineering—1937
M.A. in Math. Montclair State Teachers College—1941

CHARLES KOREN • Associate Professor of Math.
B.S. in Math. City College of New York—1930
M.A. in Math. Columbia University—1931

BORIS KUHARETZ • Instructor in Phys.
B.S. Columbia University—1951
M.S. Columbia University—1956

WILLIAM S. La LONDE, JR. • Professor of C.E., Chairman of C. E. Department
S.B.C.E. Massachusetts Institute of Technology —1923
M.S.C.E. University of Michigan—1938

LEON T. LANDSMAN • Instructor in Phys.
B.A. Columbia University—1951
M.A. Columbia University—1956

MICHAEL J. La VERDA • Assistant Professor of I. E.
B.B.A. in Accounting Upsala College—1952
M.B.A. in Accounting Rutgers University—1954

MICHAEL LIONE • Assistant Professor
B.A. in Math. and Chem. University of Newark—1942
M.S. in Math. New York University—1950
Cert. in Meteorological Engineering New York University—1943

JAMES L. LUBIN • Associate Professor of P.D.I.R.
B.A. in Eng. Montclair State College—1948
M.A. in Supervision Montclair State College—1949

CAPTAIN ROBERT J. LUCAS • Assistant Professor of Air Science
B.S.
MARCUS N. MAINARDI • Professor in Phys.
B.S.C.E. Newark College of Engineering—1935
M.A. Columbia University—1939

ERWIN L. MALONE • Special Lecturer of P.D.I.R.
M.E. Cornell University—1917
Ph.D. Columbia University—1957

RICHARD D. MANGASARIAN • Associate Professor of C.E.
B.S.C.E. City College of New York—1935
M.S.C.E. City College of New York—1937

CHARLES L. MANTELL • Professor of Ch.E., Chairman of Ch. E. Department
B.A. City College of New York—1918
B.S. City College of New York—1918
M.A. Columbia University—1924
Ph.D. Columbia University—1928

TERRENCE J. McGURN • Assistant Instructor in Phys.
B.S.E.E. Newark College of Engineering—1960

ROBERT R. MEOLA • Assistant Professor of E.E.
B.S.E.E. Newark College of Engineering—1946
M.S.E.E. Stevens Institute of Technology—1949

JOHN H. METZLER • Assistant Professor of P.D.I.R.
B.S. State Teachers College, Indiana—1947
M.Ed. Penn State University—1951

JOHN MIHALASKY • Assistant Professor of I.E.
B.S.M.E. Newark College of Engineering—1951
M.S.Mgt. E. Newark College of Engineering—1954
M.B.A.—Rutgers University—1956
M.S.I.E. New York University—1960

EDWARD MILLER • Professor of M.E.
B.S.M.E. Newark College of Engineering—1948
M.M.E. University of Delaware—1949
M.A. in Higher Education Columbia University—1951
M.S. in Applied Mathematics and Physics Stevens Institute of Technology—1953
M.Aero. E. New York University—1959

ADEL MOHSEN • Instructor of E.E.
B.S.E.E. Cairo University—1948
M.S.E.E. Michigan University—1951

EDWARD C. MOLINA • Adjunct Professor of Math.
D.Sc.(Honorary) Newark College of Engineering —1952

ALBERT JAMES MONACK • Associate Professor in Phys.
B.S.Ch.E. West Virginia University—1927
M.S. University of Illinois—1929

EDWARD J. MONAHAN • Assistant Instructor of C.E
B.S.C.E. Newark College of Engineering—1958

ALAN I. MYTELKA • Assistant Instructor of Chem.
B.S. Polytechnic Institute of Brooklyn

JAMES J. NAPIER • Associate Professor of Eng.
A.B. University of Pennsylvania—1949
A.M. University of Pennsylvania—1950
Ph.D. University of Pennsylvania—1959
PAUL E. NIELSON • Professor of Phys., Exec. Associate of Phys. Department
B.S.C.E. University of Illinois—1927
M.S.C.E. University of Illinois—1932

PATRICK J. O'HARA • Special Lecturer of E.G.
B.S.

LEONARD NOYES • Special Instructor of P.D.I.R.
M.E. Cornell University—1951
M.S. Columbia University—1956

JOSEPH J. PADALINO • Associate Professor of E.E.
B.S.E.E. Newark College of Engineering—1944
M.S.E.E.—University of Pennsylvania—1947

KANATRAY PANDYA • Instructor of Chem.
B.S. Gujarat University (India)—1938
M.S. Stevens Institute of Technology—1959

S. SERGEANT MERRILL S. PERRY • Instructor of Air Science

ROBERT POETZ • Assistant Professor of Chem.
A.B. Montclair State College—1938
A.M. Montclair State College—1947

JEROME L. POLANER • Professor of M.E., Exec. Associate of M.E. Department
B.S.M.E. Newark College of Engineering—1938
M.S.M.E. Stevens Institute of Technology—1951

KARL L. PREUSSE • Assistant Instructor of M.E.
B.S.M.E. Newark College of Engineering—1959
EIVIND G. F. RAMBERG • Professor of Phys.
B.C.E. Polytechnic Institute of Brooklyn—1937
M.C.E. Polytechnic Institute of Brooklyn—1941

T./SERGEANT WILLIAM W. RAMSEY • Instructor of
Air Science

DANIEL REIZISS • Instructor of Phys.
B.M.E. City College of New York—1944
M.S.E.E. Newark College of Engineering—1960—
Summa Cum Laude

ERVINE M. RIPS • Associate Professor of E.E.
B.S.E.E. Massachusetts Institute of Technology—1942
M.S.E.E. Carnegie Institute of Technology—1947

JAMES M. ROBBINS • Professor of C.E., Exec. Associate
of C. E. Department
S.B.C.E. Massachusetts Institute of Technology—1923
M.S.C.E. Massachusetts Institute of Technology—1925

FREDERICK A. RUSSELL • Professor of E.E., Chair-
man of E. E. Department
B.S.E.E. Newark College of Engineering—1936
E.E. Newark College of Engineering—1939
M.S. Stevens Institute of Technology—1941
Sc.D. in Engineering Columbia University—1953

ROBERT G. SALAMON • Associate Professor of E. G.,
Exec. Associate of E. G. Department
B.S.M.E. Newark College of Engineering—1945
M.S. Stevens Institute of Technology—1948

JEROME J. SALAMONE • Professor of Ch.E.
B.Ch.E. City College of New York—1942
M.Ch.E. City College of New York—1947

WILLIAM SAVIN • Assistant Instructor of Phys.
B.S.E.E. Newark College of Engineering—1960
THEODORE A. SCHNEIDER • Associate Professor of M.E.
B.S.M.E. Newark College of Engineering—1941
M.S. Stevens Institute of Technology—1948

COLONEL GRAVES H. SNYDER • Professor of Air Science, Chairman of Air Science Department

STEPHEN E. SCRUPSKI • Instructor in E.E.
B.S.E.E. Newark College of Engineering—1954
M.S.E.E. Newark College of Engineering—1958

LEONARD SHAPIRO • Associate Professor of C.E.
B.S.C.E. City College of New York—1943
M.S.C.E. Columbia University—1951

JOHN T. SHAWCROSS • Associate Professor of Eng.
A.B. Montclair State College—1948
A.M. New York University—1950
Ph.D. New York University—1958

J. MALCOLM SIMON • Assistant Professor of Phys. Ed.
B.S. in Ed. Panzer College—1954
M.A. in Ed. Columbia University—1956

OLIVER J. SIZELOVE • Professor of I.E., Chairman of I.E. Department
B.S.E.E. Newark College of Engineering—1934
M. Administration Engineering New York University—1944

EUGENE H. SMITHBERG • Associate Professor of M.E.
B.S.M.E. City College of New York—1943
M.S.M.E. Polytechnic Institute of Brooklyn—1949

EUGENE STAMPER • Associate Professor of M.E.
B.S.M.E. City College of New York—1948
M.S.M.E. New York University—1952

ABRAHAM H. STEINBERG • Assistant Professor of Eng.
B.A. Brooklyn—1937
M.A. Columbia University—1939
Ph.D. New York University—1956

JOHN M. STOCHAJ • Assistant Professor of P.D.I.R.
B.A. Boston University—1951
M.A. Rutgers University—1955

ROBERT F. SWANSON • Associate Professor in Phys. Ed., Director of Student Activities
B.S. in Ed. Panzer College—1947
M.A. in Ed. Rutgers University—1951

GEORGE B. THOM • Professor of M.E., Chairman of M.E. Department
B.S.M.E. Lehigh University—1928
M.S. Lehigh University—1932
M.A. Lehigh University—1935

NISSIM M. TOWFIK • Assistant Professor of Phys.
B.S. in Phys. Bombay University—1949
A.M. in Phys. Columbia University—1954

RONALD C. VANMEERBEKE • Assistant Instructor of Math.
B.S.M.E. Newark College of Engineering—1960
EDGAR P. VIRENE • Professor of Math.
A.B. in Math University of Pennsylvania—1935
M.S. in Math University of Pennsylvania—1936
Ph.D. in Statistics University of Pennsylvania—1940

ROBERT L. WACKER • Assistant Professor of Eng.
B.S. Northwestern University—1947
M.S. Columbia University—1948

HAROLD P. WASSON • Associate Professor of Math.
B.E.E. Ohio State University—1924
M.A. Columbia University—1932
M.A. Montclair State College—1948

MONROE R. WELLER • Associate Professor of Phys.
A.B. in Physics Upsala College—1935
M.A. in Science Montclair College—1937

S./SERGEANT ROBERT WILLIAMS • Instructor of Air Science

CHARLES E. WILSON, JR. • Instructor of M.E.
B.S.M.E. Newark College of Engineering—1953
M.S.M.E. Newark College of Engineering—1958

STANLEY B. WINTERS • Instructor of Eng.
A.B. in Hist. and Eng. New York University—1948
A.M. in History Columbia University—1950

JAMES N. WISE • Assistant Professor of Eng.
B.A. College of Wooster
M.A. Columbia University—1948

MAJOR GERALD J. WOJCIEHOSKI • Assistant Professor of Air Science
B.S.
B.C.E.
M.C.E.

CAPTAIN FLOYD T. WOOD • Assistant Professor of Air Science
B.A.

ALEXANDER P. ZIMMER • Assistant Professor of P.D.I.R.
B.S. in Bus. Adm.—1949
M.A. in Personnel and Guidance—1951

HENRY ZATSKIS • Professor of Math., Chairman of Math. Department.
B.S. in Phys. and Math. Ohio State University—1943
M.S. in Phys. and Math. Indiana University—1944
Ph.D. in Meoretical Phys. Syracuse University—1950

GEORGE PAUL ZIRNITE • Instructor of Eng.
A.B. Rutgers University—1951
A.M. New York University—1953
The Members of the Class of 1961
Newark College of Engineering
Newark, New Jersey

Dear Class of 1961:

Your kind request for a message gives me a chance of sharing with you a worry and a hope.

Today the United States leads the world in technology. That this is so has been primarily due to the efforts of our engineers.

The world around us is changing. There is an urgent demand in the backward countries for a decent way of life and for the industrialization which can assure this. There is a dynamic development in the Soviet Union to conquer the world if possible by peaceful penetration. He who can offer most to the world as a whole will prevail in the coming years and these coming years will decide whether our ideals of freedom are strong enough to survive.

It is my belief that the main job which is facing us today is no longer a further increase of our comforts in this Country. It is rather to lead the way for the whole world toward a better life. In this job our engineers will have to play a crucial part.

You are faced with a great challenge and a great opportunity.
I wish you the best of luck in your future.

Sincerely yours,
Edward Teller

Edward Teller
The HSC was formed at NCE seven years ago. It is an organization which coordinates and represents the interests of all the honor and recognition societies on campus.

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

Composed of a representative from each individual society and four elected officers from the various societies, the HSC has made great strides towards establishing a central unit for NCE's honor and recognition societies.
OMICRON DELTA KAPPA

Mason Ford
President
John Terninko
Vice-President
Jeffrey W. Schram
Treasurer
Anthony J. Barber
Charles W. Beardsley
Chester Cosgrove
Joseph Friend
Ronald N. Hatcher
Robert A. Reinman
Barry J. Shandler
Jack W. Stumpf
ETA KAPPA NU

Michael F. Sikorsky  
President
Robert A. Reinman  
Vice-President
Cornell S. Stradling  
Recording Secretary
A. Michael Noll  
Corresponding Secretary
Professor Robert E. Anderson  
Treasurer
Harold Black  
Bridge Secretary

George Ammon  
Rudolph B. Benda  
Ralph Carfi  
Arthur Darbie  
James F. Day  
Walter A. Fischer, Jr.  
Kenneth A. Gajewski  
James Giambalvo  
Stephen Goldstein

Walter Hartwell  
Charles Heller  
Joseph A. Hnat  
Eugene Holmes  
Robert Howard  
Donald J. Jorgensen  
Stanley E. Lamberski  
Richard Libby  
Murray Lieb

Robert Lorentzen  
Joseph Simone  
Thomas Stafford  
John Terninko  
Peter Van Der Sluys  
Oscar Weinstein  
John L. Woodruff
OMEGA
CHI
EPSILON

Donald W. Hagedorn, President
George A. Smith, Vice President
Edwin O. Eisen, Secretary
Carl Mann, Treasurer
Robert McCall
National Representative

Bruce Bartholomew
James A. Cleary
George R. Ferment
John M. Kane
Joel H. Kaplan
Thomas F. Walsh
PHI ETA SIGMA

Charles Beardsley
James Cleary
Robert Dlouhy
Kenneth Gajewski
Stephen Goldstein
Donald Hagedorn
Joseph Hnat
Stanley Lamberski
Robert McCall
Donald Newberry
Robert Reinman
Jeffrey Schram
Michael Sikorsky
John Terninko
PHI TAU SIGMA

Jeffrey W. Schram, President
Jack W. Stumpf, Vice President
Mark W. Simon, Treasurer
Frances R. Callanan
       Recording Secretary
Louis G. Ciampuzzi
       Corresponding Secretary

Anthony J. Barber
Fred Di Maria
Leslie H. Goldstein
Ronald N. Hatcher
George A. Hazenrigg Jr.
George A. Katzenberger
William B. May
Kristoffer P. Miller

Donald A. Newbery
Peter J. Faier
John R. Ramsay
Siegfried M. Zierau
William J. Ehner
Robert E. Geyer
George J. Schnabel
John E. Valentín
PI DELTA EPSILON

Charles W. Beardsley
President
Barry J. Shandler
Vice-President
Louis J. Bovasso
Secretary
Anthony J. Barber
Leslie H. Goldstein
William B. May
Peter Paicer
George Roman
Carol Rose
Anthony Romano
Who's Who Among Students in America Colleges and Universities

Anthony Barber
Charles Beardsley
Dennis Beebe, Jr.
Chester Cosgrove
Maureen Cronin
Robert Dlouhy
Mason Ford
Joseph Friend
Ronald Hatcher
John Jamison
Donald Jorgensen
Peter Paicer
Arthur Quade
Robert Reinman
George Roman
Carol Rose
Jeffrey Schram
Barry Shandler
Cornell Strading
Robert Tangredi, Jr.
Ronald Tedesco
John Terninko
David Wingerter
Ronald Worsley, Jr.
LINUS PAULING
3500 FAIRPOINT STREET, PASADENA, CALIFORNIA
January 1961

Class of 1961
Newark College of Engineering
Harrison, New Jersey

To the Members of the Class of 1961 of Newark College of Engineering:

I envy you young people, just graduating from the Newark College of Engineering, for the opportunity that you have to spend your lives in a wonderful world that is freed of the immorality of war and that devotes its efforts and resources to the decrease in the amount of suffering and increase in the amount of happiness of all men.

You are fortunate to live during the epoch in history when it has become possible to rid the world of war—not only possible, but necessary, because the alternative to peace is now world wide destruction and perhaps the end of civilization.

Those of us who are not moral pacifists are forced by circumstance—the existence of incredibly powerful weapons of destruction—to become realistic pacifists. I urge that each of you do his part to help steer the world along the path of peace, reason, and morality.

Sincerely yours,

Linus Pauling

Linus Pauling
"Coordination" and "cooperation" are the key words when one is describing the Professional Societies Council. Composed of the presidents of the different professional societies on campus, the group directs its efforts toward the professional development of the individual student members. Occasionally the Council will combine its efforts to sponsor a meeting at which an important speaker would discuss a topic that would be of interest to all students. The Council also has representation in the Student Council.

ACS

The ACS is a professional society originally founded for chemical engineers and chemists. The NCE chapter is a member of the national council and is also affiliated with the Inter-Collegiate Council, which represents nine northern New Jersey colleges and universities.

Among the society's important functions are the development of a professional attitude on the part of the student, the broadening of the student's ideas by association with others of his chosen profession, the coordination of scientific and educational activities in chemistry, and the acquisition of a practical point of view towards various operations in the chemical industry. The society has many activities in which its members participate, such as regional conferences, national conventions, and various field trips to industrial plants.

Accepting responsibility is one of the mainstays of a professional man, and the development of responsible men is the main purpose of the society.
The ASCE has always stressed professional conduct and integrity among its members. It maintains high ideals and attempts to solidify these ideals in the members and the engineering profession in general.

Besides having an annual convention in New York City, at which the student members get a chance to meet many prominent men in the civil engineering field, the ASCE invites many speakers to address the group at the monthly meeting. Its many social activities include a dinner in the fall, a dance in the winter, and a picnic in the spring.

The student chapter of the Institute of Radio Engineers performs the important function of introducing the student electrical engineers to, and of acquainting them with, the activities and literature of this professional society. Special membership and subscription rates allow the student to enjoy benefits which would ordinarily cost him at least three times as much. In performing this function, the student chapter hopes to achieve two objectives: (1) to supplement the student's education and broaden his outlook as a potential professional man, and (2) to further the aims of the Institute of Radio Engineers by increasing membership and by insuring that future members will take a more active interest in and have a better understanding of the functions of the IRE.
The AIEE after its inception in 1926 at NCE has successfully pursued its aim to broaden the scope of the electrical engineering student by introducing him to all fields of his chosen profession.

By bringing in prominent speakers from industry, watching films on new developments, and touring industrial plants, and research laboratories, the student members are introduced to practical problems in the electrical engineering field.

Benefits of student membership include the following: a subscription to "Electrical Engineering" magazine, the use of the Engineering Society Library and its services, and the opportunity to become an associate member upon graduation.

The American Society of Mechanical Engineers, which is open to all students pursuing an M.E. degree, has as its primary object the promotion of professional spirit among its members and the provision of a source of contact with practicing engineers.

The local chapter's nine active committees, which carry out the work and thus insure the success of the planned activities, also offer a means whereby individual students can originate, formulate, and adapt their ideas to the interests of the chapter while sharing in a greater part of the chapter's undertakings.
The Society for the Advancement of Management student chapter at NCE celebrates its thirteenth anniversary in 1961. The primary aims of the chapter are to assist the college in training the student in the field of scientific management and to offer the student the advantage gained from the association with men active in the management field. Membership is open to students in all the professional departments and recent years have seen rapid increases in the chapter’s strength.

All activities are harmonized with those of the senior professional society, the Northern New Jersey Chapter of Society for the Advancement of Management, to offer the student a close personal contact with professional engineers and managers already advanced in the field.

The American Institute of Chemical Engineers is a national engineering society of professional status. In addition to helping students in chemical engineering become acquainted with their professional society during their training period, the NCE student chapter helps provide the student professional growth and broader viewpoints on the chemical industry by means of guest speakers and plant trips. Members are encouraged to participate in the New York-New Jersey Metropolitan Conference of the student organization and in the national A.I.Ch.E. Student Problem Contest. Once each year all chemical engineering seniors take a four-day plant trip sponsored by A.I.C.E.
Class of 1961  
Newark College of Engineering  
Newark 2, New Jersey  

Dear Members of the Class of 1961:

It is with pleasure that I write this letter to you upon your graduation from the Newark College of Engineering.

First, let me congratulate you on the successful completion of your studies. It is an achievement of which you can be justly proud.

You are undoubtedly aware of the tremendous and exciting challenges with which you are faced today, for you are living in an era during which the imagination of man has been fired as seldom before. Such an era will demand adaptability, the continued pursuit of knowledge, the constant probing for truth, and the intelligent conversion of experience into foresight. You have been taught to value these traits, and the extent to which they continue to be a forceful part of your lives will determine your preparedness for your rapidly changing world. With your cultivated ability to think and your specialized skills as engineers, you have an unparalleled opportunity to play a part in the tremendous technological developments of the future. The new age is yours. I hope you will shape it well.

Again, my congratulations to each of you and my best wishes for your future success.

Sincerely yours,

Glenn T. Seaborg

GTS:bjs
ACTIVITIES OFFICE

Truly living up to its title, the Activities Office is one of the busiest concerns in the college. Ably administered by Prof. Swanson, this department is the headquarters of all student activities. Pat Wasdyke, Prof. Swanson's girl Friday, works diligently at the endless supply of clerical tasks which constantly arrive at her desk.
INTERFRATERNITY COUNCIL

The IFC was founded at Newark College of Engineering to coordinate the social and community activities of its members and to aid in the betterment of relations between the college and the fraternities.

The IFC encourages active participation in college affairs, and in recent years has initiated the policy of having one of the member fraternities hold an OPEN HOUSE after each home basketball game. As a result, attendance at all games has increased more than tenfold.

Besides supporting other college activities, the IFC sponsors many affairs of its own. Newest of these is the Greek Week. This week for fraternity men includes the election of an IFC Queen, the fraternity skits put on at Dance Club, and the annual IFC dance. In addition to this, the IFC also sponsors a basketball league in which the competition is very intense.

Each year the IFC publishes a booklet which is sent to every freshman, acquainting him with each of the seven fraternities on campus and explaining the advantages to be gained from joining a social fraternity.

STUDENT COUNCIL

During the course of the year, the Council discussed the plans and problems of the student body and acted as a hub coordinating the activities of the student body. The council consists of one representative from the Athletic Association, Interclub Council, Interfraternity Council, Publications Council, Honors Council, Professional Societies Council, and the four classes.

The work of the Student Council was carried out through its committees, which worked continually throughout the year. The Financial Committee aided the council in apportioning the funds of the Student Council and in regulating the revenues from activities, fees, and other sources. The Social Calendar Committee regulated the schedule of the college, coordinating them to allow maximum benefits to the student body. The New Building Committee worked with the administration in planning the student lounge areas for the new building.
Class of 1961
Newark College of Engineering
Newark 2, New Jersey

Gentlemen

When I received my bachelor's degree in engineering at Texas A&M College in 1931, the human environment was radically different from the one that now exists on this planet.

Starting about the time of World War II, an explosive outburst of human energy in technology has been at work around the globe. In a single generation, it has profoundly changed most of the circumstances of our lives.

The most significant change has occurred in our concept of security. My class was graduated in the midst of a great financial depression. The vital concern of most people at that time was to guard against economic disaster.

The crisis that confronts your class is a military one, affecting our existence as a nation. In this age of nuclear weaponry transported across continents and oceans by rocket-powered missiles, the pressing concern of every American is to guard against the loss of our lives and our freedom.

In the world of 1931, the engineer was in most cases a subordinate technician. He performed the necessary calculation of loads and forces, involved in large construction projects, for industrial uses.

Today, engineering is a vital creative function in the rapid growth of our technological civilization. It is also a military function of supreme importance in the worldwide technological conflict between our way of life and those who would destroy it.

In the midst of the keen competition for your services, that you will meet as you enter upon the practice of your profession, I hope you will recognize the urgent need for the best engineering talent available in advancing the strength and security of our nation.

As military engineers, you will have the opportunity to probe the frontiers of new sciences. The challenges are unlimited and you will be participating in one of the great adventures of our time -- the exploration by man of the new frontiers in space.

In military engineering -- whether as a civilian or as an officer -- you will have the added satisfaction of knowing that you contribute directly to the survival and happiness of your country.

Whatever your choice, I wish you all success in your careers. Engineering has become a field of unlimited achievement. The outlook for the world in 1991, and for many generations thereafter, will depend largely on your creative effort.

Sincerely,

B. A. SCHRIEVER
Lieutenant General, USAF
Commander
Since becoming a chapter of Alpha Phi Delta, Beta Xi chapter has endeavoured to increase in its members the meaning of the way of life, fraternalism. This has been done through the chapter's active participation in both college and fraternity activities.

The chapter's annual social events, highlighted by the fall Dinner Dance, are the barn dance, the District Christmas Dance, a spring picnic, and an alumni banquet. A new event has been added this year. From now on each year during the mid-semester break a group of the brothers will engage in a trip to Florida, to enjoy the sun and warmth of Miami Beach.

Each year the fraternity usually holds a Christmas Party for twenty orphans, showing the fraternity's civic spirit. At this party gifts are distributed by Santa Claus, refreshments served and a good time is had by all.

Alpha Phi Delta has always actively participated in extracurricular activities at the college. Many of its members enjoy belonging to intramural teams, clubs, and many of the other organizations in school.

The brother's of Alpha Phi Delta take pride in their scholastic endeavours and do their utmost in keeping standings well above average. Many of its brothers are in the A.F.R.O.T.C. program.

Many of the brothers are musically inclined and have
their own groups which participate in school dances as well as outside engagements.

All these social and civic activities go hand in hand with the engineering education obtained at N.C.E. and it is the thought of every brother that one is no good without the other.
Alpha Sigma Mu serves a twofold purpose. Its primary function is to acclimate veterans to student life at NCE. It also strives to improve the social life of the veterans. In both respects, the fraternity has been very successful. Throughout the year the fraternity sponsors bowling parties, skating parties, picnics and a spring dinner dance. Many athletic events are included as part of the social program.

In addition to advancing the veteran as an individual, the fraternity strives to improve student life among all students at NCE. This is accomplished through active participation in the many extracurricular activities of the school. Among the students, Alpha Sigma Mu is known as a very dynamic organization in student life.

The members of Alpha Sigma Mu enjoy a unique comradeship that can only come from sharing some common and meaningful experience. This comradeship is evidenced in the close cooperation among the members and between the members and the officers of the fraternity.

The fraternity was started in 1954. Since that time the membership has grown to include over eighty members. The alumni has left the fraternity a heritage of active participation and accomplishment. Each year the members work toward advancing these goals. The close association between the members and alumni gives impetus to the fraternity’s endeavors, both social and professional.
The origins of the Phi Beta Tau Fraternity date back to 1943 when 13 students found that they could not join other fraternities for reasons which did not bear on their character. So they joined to form a new fraternity dedicated to the proposition that the only criterion for membership was a man's character. While the fraternal situation at NCE has changed drastically since then, this tradition has not.

Through the years the fraternity has grown to be one of the leaders on campus. From early meetings in the student commons, activities have been directed to finally owning a fraternity house. With the coming college expansion, much of the brothers' efforts have been directed toward obtaining this new house.

Phi Beta Tau has grown not only physically but in activity. The brothers hold various positions of responsibility in Publications, Inter-Fraternity Council, Class Governments and Student Council Committees.

Based on a non-sectarian foundation, the main purpose of the fraternity is to create a strong bond of friendship among its members. This is done through mutual cooperation and understanding. This aim is sought through social gatherings, house parties, dances, interfraternity sports, and the daily personal informal meetings of its members.

A new emphasis was placed on keeping the graduating brothers close with the fraternity this year. An Alumni Association was formed, and under the leadership of Paul Gianas, President '59, has contributed materially to the success of fraternity activities. The main event of the year was a joint Alumni-Active dance at which several alumni, unheard from many years were re-united with the Fraternity. The Association now regularly contributes to the social and fraternal activities of the Phi Beta Tau Fraternity.

Under the leadership of Richard Rohrbach, President, the other main events of the Phi Beta year went off very successfully. The annual trip to Stokes State Forest where the brothers forget the academic world for five days proved to be a real test. However, the temperature which averaged minus fourteen degrees and constant snowfalls were only

Richard Rohrbach, President  
Barry Shandler, Vice President

ΦΒΤ
mildly distracting to these outdoorsmen. Ice hockey, bridge, and discussions were the order of the day and many of the brothers came back to school with a better understanding of themselves and their brothers.

The year was capped off with the annual Pledge Dinner. At this event, the new brothers who were initiated during the year receive their pins, the alumni and brothers engage in sports and the actives bid goodbye to another school year.

Special mention should be given to the fraternity's advisors, Professor Wasson of the Math Department and Mr. Haubner, Registrar. Many times this year the fraternity was in need of experienced counsel, and in all cases it was given freely and soundly.

The Phi Beta Tau Fraternity will start its next year in a sound position to look forward to having its own house. This will be another significant step in the growth of one of NCE's most active fraternities.
The school year for Pi Kappa Phi started long before the beginning of the school year for N.C.E. We started planning our year's activities as soon as the spring semester ended and this past year we applied a great deal of effort toward buying a new house.

Our social calendar was planned during the summer and so far, everything that has been planned has been quite successful. The nucleus of our social activities has been three events: our Founders Day Dinner, our New Years Eve Party, and the upcoming Rose Ball.

As has been true in the past, and will continue to be true in the future, our Founders Day Dinner was a tremendous success. This is the one time of the year when the Alumni and Undergraduate brothers can get together over a fine meal and talk fraternity and old times without fear of boring our dates to death—because we don't have any dates. The dinner this year was held at the Rock Springs Corral in West Orange.

Just before our Christmas vacation, we had one of our most enjoyable affairs—the annual party for the orphans at St. Peter's Orphanage in Newark. This is one event that everyone looks forward to each year with great anticipation. There is nothing quite so heartwarming as the way little children, especially children without fathers or mothers, show their gratitude for favors done for them. It's always a fitting prelude to Christmas.

Our biggest affair—the Rose Ball—will be held on March 11. This is the primary social activity of the fraternity, again providing an occasion for the Undergraduates and Alumni to renew old friendships, but this time with wives and favorite girl friends to make the evening more enjoyable.
Our first pledge class of the year started the second week in November. We started with a pledge class of thirteen potential Pi Kaps. These men, we believe, are among the finest underclassmen in school and we hope to be able to form an equally fine pledge class the second semester.

As was mentioned before, we are in the process of house hunting. We believe the best way for a Fraternity to exist is in a house of its own. For this reason, we are searching the area surrounding the expansion area of the College in hopes of finding a house that will give us an opportunity to grow to be the truly finest fraternity on campus.
Alpha Mu Chapter of Sigma Pi Fraternity is a direct descendant of Beta Alpha Theta, the first fraternity to make an appearance on this campus.

Since its first years at Newark College of Engineering, Alpha Mu has fulfilled in many ways its aim of aiding the engineering student in cultivating a knowledge of the social aspects of life as well as the technical ones.

We of Alpha Mu have always had a history of high activity in social functions and this year was no less spectacular than any of the past. Aside from the many parties held at the fraternity house throughout the year some of which were the Halloween Party, the Wild West Party, the Christmas and New Year Parties, the Monte Carlo Night, and the Splash Party (without the splash), we also had a few annual affairs which set off the social calendar with that extra touch.

The Orchid Ball was the opening affair of our social year at the Coronet in Irvington. This is the first time in the chapter's memory that the group kicked their feet to "square dance" music in tuxedos and evening gowns, but it certainly was a "ball". Among the other annual affairs of the chapter are the Founders Day Banquet, which incidently was quite a success due to a good turnout of alumni and actives, the Spring Dance, and the Parents' Night.

We also carried on other functions that were not only well worthwhile but were enjoyed by all the brothers and pledges that took part. Two of these functions were the Annual Car Wash, of which the proceeds were donated to charity, and the Annual Christmas Party for underprivileged children.

In addition to our vigorous social program the chapter strongly encourages active participation of our members in the many varied clubs and athletic, professional, and social organizations of the college.
Due to the high degree of interest of our men we have been honored with the "I.F.C. Outstanding Fraternity On Campus" award for the past two years. We have also received recognition from our national in the form of the "First Place Efficiency Award" and the "Sigma Pi Convocation Attendance Award" both of which were received by the chapter at the biennial convocation this past summer which was convened at Colonial Williamsburg, Virginia.
The school year 1960-1961 has been one chiefly of growth. The number of members has increased to 46, the largest on campus, and more are expected.

Tau Delta's social calendar has been well filled with many parties and smokers. These were separated by a few exceptional highlights. We started the year off with a Golden Anniversary celebration at the Waldorf Astoria in New York. Just before Christmas we held our first annual Charity Mixer. The snow that gave us a few days vacation made it just a partial success. The proceeds went to the children at St. Walburga's Orphanage, and their smiles and happy faces made our efforts into a complete success.

Of course, the finale, our annual beach party, was a great ending to a great year.

We participated fully in intramural sports scoring much success in basketball, football, and especially in bowling, topping all other fraternities in the league.

Scholastically, Tau Epsilon Chapter has also scored. We ranked 2nd in overall Grade Point Average and many members belong to the school's honorary organizations.

Most important, our organization developed the spirit of true fraternalism, considered by us to be a basic part of our education. This was taught to the underclassmen by the graduating seniors so that we may pass it on and set an example to the future NCE students as they have to us.

That we may look back to college and be proud of belonging to a fraternity and especially to Tau Delta Phi. That we have developed more than just friendships. That we can live by our motto, "He shall not want as long as I breathe, for he is my Brother." These are our aims and these are our accomplishments.
In the beginning Tau Epsilon Phi was nothing more than 10 college students and an idea. On October 19, 1910, these 10 students at Columbia University's College of Pharmacy met on a bench in Central Park and expounded the ideas and ideals that have now grown into an international fraternity, with 54 chapters and 16,000 members in all walks of life.

Growth was a slow and tortuous process for a fraternity in those days, but slowly these 10 founders gathered around them, students they felt worthy of carrying on the young traditions of Tau Epsilon Phi. Soon the name of the fledgling group had spread beyond the confines of Columbia and other universities were petitioning for charters.

Several applications were turned aside until in 1912, charters were granted to the Bellevue Medical College and New York University. In 1914 a chapter was added at Cornell University and by the break of World War I, Tau Epsilon Phi was a national name in practice. Tau Epsilon Phi has survived through the years and has become a solid cornerstone in the fraternal world.

In September 1947 Tau Epsilon Phi granted a charter to Tau Psi chapter at Newark College of Engineering. Tau Psi Chapter also grew. Starting with four members, Tau Psi Chapter grew to its present size of thirty brothers. The fraternity has served to enrich the college life of its members by providing a place for study, relaxation, recreation and friendship. Tau Epsilon Phi has also provided convenient stopover for commuting students.

The school season is usually party time at Tau Epsilon Phi with monthly parties, at which fun is had by everyone. Topping the list of the social calendar is the "floating" New Years Party and close behind comes the Annual Dinner Dance.

Tau Epsilon Phi fraternity is the key to happier college life.
The NUCLEUS
the Orbit
The Magazine of the Undergraduate Students of Newark College of Engineering

NEW STEAMLINES

Publication of the Students of the Management Engineering Department

Volume 3 Number 4
March 1960
In 1958, the Publications Council adopted a new and complete constitution. For the first time in history of the college's publications, all the publications submitted their individual budgets in a master budget to the Student Council. Three publications which heretofore had received no aid from the Council were granted finances.

The permanent members are the Vector, the Orbit, the Log NCE, the Nucleus, the Samaritan, the Steamlines, the Cadet, the Surveyor, and the AIChe Reactions. Under the auspices of the Publications Council, the AIChe Reactions became the first paper of the Chemical Engineering Department.
"After this game we've got to get started."

“You don’t really work in that office, do you, Carol?”

“No head for business.

“If we rush him we may have a chance.”
Here it is—we hope you like it.

FIRST ROW, left to right: P. Paicer, A. Romano, C. Rose, J. Hnat.
SECOND ROW: J. Jamison, A. Barber, R. Tedesco, G. Roman, L. Goldstein.
The VECTOR, “With Magnitude and Direction”, has experienced a tremendous growth this year. In magnitude alone the paper has been expanded to the point where there were several ten-page issues. The direction of the paper has also changed, with the intent of providing more and better coverage of student activities: with stories about students, written by students. Ancillary to this main purpose was the printing of announcements by the administration, and presenting a sound editorial policy of opinions on many problems confronting the student body both as students and as citizens. After all, it is the function of a school newspaper to act as a service to students, bringing them news which they could otherwise not obtain.

The VECTOR covered many important events this year. Perhaps the most important was the poll of student opinion taken before the Presidential election. The student body picked Kennedy by a ten percent margin. The coverage of sport activity was also widened this year, spurred on by an undefeated Soccer team which won a National Crown. Activities of the Honor Societies, Clubs and individual students featured every issue. Special attention was also given to the activities of the faculty.

Both the reporters and the editors of this year's VECTOR have found that their newspaper work has given them many rewards such as being able to know many people throughout the school and a new poise in meeting and dealing with people. In addition, through news work, these people have learned to express themselves much better.

Special mention should be made of the VECTOR'S two excellent and able advisors. Dr. Herman Estrin has worked tirelessly to inspire and guide the staff in editorial and mechanical aspects while Mr. Richard Blanchard of Public Relations has guided the paper in the financial area. A good part of the VECTOR's success can be attributed to them.
The Orbit had its beginning at NCE in the spring of 1957. It was intended as a medium by which students could express their ideas in technical papers, essays, stories, or articles. So far it has achieved that purpose. As another service, The Orbit has kept us abreast of many new developments in industry and has helped to keep a close association with the progress of some of NCE's outstanding Alumni.

Despite the relative youth of The Orbit, it has managed to have a mature and professional look about it that makes it an outstanding undergraduate publication. However, it is the ambition of The Orbit staff to keep it growing and to improve its quality so as to make it an even more outstanding and enjoyable magazine.

During the past year, the staff, under the direction of Charles Beardsley and Louis Bovasso, has done an outstanding job on the difficult, time-consuming task of putting out three fine editions of The Orbit. However, the great satisfaction that comes with seeing an issue in print makes the effort of meeting deadlines and dealing with outside forces, seem well worth while.
“The Samaritan,” the publication of the student members of the local chapter of the Society for Advancement of Management, serves as an excellent example of what can be accomplished in student publications.

It not only covers the class activities, social affairs, field trips, and meetings of the chapter, but also gives the students an opportunity to express their opinions on the affairs of the college.
FIRST ROW, left to right: M. Mulshine Jr., J. Schram.
BOWLING TEAM

FIRST ROW, left to right: B. Welgos, J. Schomberg.
SECOND ROW: A. Scaglione, J. McDonough.
Soccer Team Ties For National Championship
Shown at left is William Garro, of 159 Claremont Ave., Montclair, co-captain of Newark College of Engineering soccer team which shares 1960 national collegiate crown with Elizabethtown, Pa., College, is congratulated by NCE president Dr. Robert W. Van Houten. The prize represents first national championship title in history of NCE sports. J. Malcolm Simon, coach of squad since 1955, holds coveted trophy presented by National Association of Intercollegiate Athletics. Final game on Nov. 27 in Slippery Rock, Pa., was halted by darkness after nearly 17 minutes of overtime play failed to break 2-2 deadlock. It was the first undefeated season for NCE booters since they entered NAIA competition in 1952. Team’s record was 12 wins, 0 losses, 1 tie.
Sullivan strikes again.
Seventh Straight Win

Joe Delikat (left) and "Silky" Sullivan (right) wait for the swish as Bob Welgos sinks a foul shot.

BASKETBALL

The basketball team ended its season with a record of nine wins and nine losses. This seems to be a mediocre record, and yet it is not. A team's record cannot be evaluated at one glance. There are many factors to be taken into consideration in evaluating the success of a team.

This year practice started a month later than it should have. This contributed to the slow start of the team.

Because of the difficult curriculum taken at NCE practice was only twice a week from four to six. In most other schools practice is a three hour a day, five days a week proposition. This is a most important factor to be considered.

In late December the Varsity coach Professor Bauder was forced to retire due to ill health. Professor Fitzgerald took on the difficult job of finding a winning combination. This was another difficulty, changing coaches in mid-season, having to forget set patterns and learn new ones. Professor Fitzgerald's team lost its first five games, bringing its record to two wins and nine losses. The outlook for a five hundred season looked dim. Then against Drew University the team finally jelled. They went on to win their last seven in a row and finish nine and nine. Professor Fitzgerald and the Big Red had finally found the combination to a successful season.

Among the highlights of the year were, the fourth place finish at the Rochester Invitational Tournament, an upset victory over Bloomfield College, the crushing victory over Stevens Institute which will carry over to next year.

Bobby Welgos was great all year and amazed the fans every game with his all around play. Bobby Taylor was invaluable with his ball handling, great passing, and long rebounding ability. "Silky" Sullivan drew oohs and aahs each time he made one of his thirty-foot jump shots. Roy Knutsen was a bear on defense and a valuable scoring threat during the streak. Mase Ford with his timely baskets in the clutch, Skip Wilkins with his dribbling and ball hawking, Joe Delikat with his jumper, Hank Shinol with his fight and spirit, and last but not least Teddy Russell with his rebounding all contributed to the success of the team.

The outlook for next year is a bright one. The team has profited by its mistakes this year and is looking forward to continuing its winning streak.
CAPTAIN BOB WELGOS

Knutsen serves.

Welgos to the line for another one.
LEFT TO RIGHT: Fran Callanan, Maureen Cronin, Carol Lastovica, Carol Rose.

LEFT TO RIGHT: Virginia Thomas, Edith Jeffreys (Co-Captain), Fran Pojedinec, Prof. Bauder, Pat Jasinski, Leona Balkenende (Captain).
Ballet with Epee.

Coach Hauser is the black sheep in the fencing family.

At left, CAPTAIN JOHN TERNINKO.
After losing their first meet of the season to Newark Rutgers the NCE fencing team bounced back to defeat Brooklyn Poly, 14-13. The Highlanders also chalked up a victory against Paterson State, which brings their record to 6 and 1.

There are three more regularly scheduled meets left... N.A. Invit., Stevens, and the NCE Invitational Tournament. The postponed meet with Cooper Union will possibly be held on April 1. Having already won five, the worst possible record they can come up with is 6 and 4. This will be the fourteenth year in a row they have maintained at least a .500 record. Many of these years the team was undefeated or had only one loss. This is an enviable record for any school to have.
INTER CLUB COUNCIL

The Interclub Council is the official representative of all the clubs in school. With almost twenty clubs under its jurisdiction, the Interclub Council forms an important part in programming various events. Through careful planning and scheduling, the organizations have been able to hold their meetings and outings with a minimum of interference between club meetings.

As the representative of these clubs in Student Council, the Interclub Council is able to secure funds to keep these organizations functioning. Through these varied fields of interest, the student can broaden his background.
Alpha Phi Omega, the service fraternity, has really lived up to its name. Its varied activities include ushering at the Newark Science Fair, maintaining the APO book exchange, and procuring of information and tickets for the Broadway shows, concerts, and television shows. The service that APO has given to the college and the students is immeasurable.

American Rocket Society

In the brief span of our four years in college, the rocket society has gained tremendous acclaim. The fictional story of "Buck Rogers" has almost become a reality. To reach this stage of space cities, new branches of science are being developed.

Keeping pace with this world of the future are the men of the rocket society. These men with the engineering background and the flare for imagination will become the leaders of tomorrow.
KAMPUS KAPERS

The Kampus Kapers Club of NCE is the organization devoted to the promoting of acting talent of the students. This talent is developed in both a musical and dramatic vein. In Kampus Kapers, the potential engineer is given the opportunity to cultivate his abilities in an aesthetic vein to supplement his technical background.

The club was developed from the "smokers" which were put on by the students and faculty years ago. It was here, in these gatherings, that the need for a permanent organization was felt. Thus the club was born.

FIRST ROW, left to right: J. Friend, R. Quodomine. SECOND ROW: M. Cronin, A. Budris.

NEWMAN CLUB

The Newman Club is a group that fosters the spiritual, intellectual, and social interests of the Catholic students at NCE. The club has been very active at the college, especially during the Lenten period. The club has had the honor of starting our social season with the annual Newman Club Dance. The club is affiliated with the National Newman Club Federation, which has units throughout most colleges and universities.

**AUDIO CLUB**

Anyone who joins the Audio Club can share an interest in and learn more about one of America's most popular hobbies. The members of the Club are not only connoisseurs of fine music but they appreciate the technical aspects of audio equipment design and construction. Most of the members design and build their own amplifiers and speaker systems using only production made components. Other activities include lectures by experts in the field and trips to various hi-fi shows.

**RADIO CLUB**

The Radio Club is the haven of the amateur radio operator. The club has been active as the membership has grown to include students from all classes. One of the outstanding jobs done by the club is the tutoring of members who wish to apply for their operator's license.
DANCE CLUB

The most popular of all the student activities at NCE is the Dance Club. On each Friday night, the students flock to the gym to learn the art of ballroom dancing. Under the masterful teaching of Professor Swanson, assisted by girls from the nearby colleges, the students learn the basic steps for modern dances. After the lesson, the gym becomes a ballroom with music provided by a combo or by records. The popularity of the club is shown by the large attendance week after week.


PHOTO CLUB

The aims of the Photography Club are the advancement of the technique of picture-taking and of the processing and printing of pictures. Modeling sessions, speakers, films, contests, and field trips are arranged to give the students an opportunity to practice and improve upon their photographic techniques.

The modeling sessions give the members the chance to learn lighting and posing procedures. Speakers and films help to increase the over-all knowledge and improve the photographic techniques. Club meetings are held for the exchange of information and for a general discussion of new equipment and methods.

The club has its own darkroom in which developing, printing and enlarging may be done. It is here that the final steps in the photographic procedure are accomplished.
**SKI CLUB**

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

FIRST ROW, left to right: H. Warren, J. Terninko. SECOND ROW: C. Beardssley.

**YACHT CLUB**

The Yacht Club was organized to provide the opportunity for NCE students to apply their sailing prowess. Since the Yacht Club is a member of the Athletic Association, it has plans of participating in intercollegiate races. With this dream as an inspiration, the club hopes to provide an interest in the art of boat building, boat design, and racing.

The major part of the Yacht Club's activities this past year was in getting their sea-going vessel ship-shape on the campus between Campbell Hall and the lab building.
CHESS CLUB

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

To add a new thrill, a three-dimensional game was displayed. The theory behind the 3-D game was taught to members of the club which opened a new facet of enjoyment in the game.

FIRST ROW, left to right: J. Makowsky, Jr., R. Dlouhy. SECOND ROW: R. Quodomine.

ROD AND GUN CLUB

The Rod and Gun Club was organized to conserve game, fish, and other wildlife. The organization has been instrumental in spreading knowledge of the outdoors to the students of NCE. The highlight of the calendar year is the annual venison dinner. The dinner has brought fond memories to the hearts of all who attended.

The Bridge Club has had another successful year. As one passes through the "lunch box" during school hours or drops into the cafeteria on Friday nights, he will see the familiar faces of the bridge enthusiasts.

The club has participated in many bridge tournaments where master points are given to the winners and runner-ups.

FIRST ROW, left to right: R. Welgos, O. Miller, J. Terninko.
SECOND ROW: S. Goldstein, B. Denbleyker, R. Cermele.

NEW STEAMLINES

FIRST ROW, left to right: L. Goldstein, C. Rose.
SECOND ROW: M. Simon.
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The Alumni Association extends to all of you the most sincere congratulations on the completion of your undergraduate studies. Your degree is a measure of quality and a symbol of successful acquisition of knowledge. It will mean as much as you and your classmates make it mean, in terms of your personal achievement and capability. As you achieve success, the value of your diploma, and that of every other alumnus, is enhanced. Therefore, the Alumni Association is interested in your progress. We want to see the reputation of our school, and our own diplomas rise in stature, so keep us informed of your progress. Do good work! Good Luck.

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BROWNE, FRANCIS XAVIER—36 Duncan Ave., Jersey City

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

BARBER, ANTHONY J.—508 Beechwood Ave., Middlesex
BARAUSKAS, STANLEY MICHAEL—21 Bostwick Ave., Jersey City
CICCHINO, DOMINIC ANTHONY—1203 Garden St., Hoboken
CALLANAN, FRANCES ROBERTA—612 Chestnut St., Roselle
BOVASSO, LOUIS JOSEPH—305 Virginia Ave., Jersey City
BURRAFATO, JOHN FRANK—397 6th St., Paterson
BUDRIS, ALLAN ROGER—46 Forest St., Montclair
BROWNE, FRANCIS XAVIER—36 Duncan Ave., Jersey City
BROWNE, FRANCIS XAVIER—36 Duncan Ave., Jersey City

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BARBER, ANTHONY J.—508 Beechwood Ave., Middlesex
BARAUSKAS, STANLEY MICHAEL—21 Bostwick Ave., Jersey City
CICCHINO, DOMINIC ANTHONY—1203 Garden St., Hoboken
CALLANAN, FRANCES ROBERTA—612 Chestnut St., Roselle
BOVASSO, LOUIS JOSEPH—305 Virginia Ave., Jersey City
BURRAFATO, JOHN FRANK—397 6th St., Paterson
BUDRIS, ALLAN ROGER—46 Forest St., Montclair
BROWNE, FRANCIS XAVIER—36 Duncan Ave., Jersey City
BROWNE, FRANCIS XAVIER—36 Duncan Ave., Jersey City

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ARCHER, WILEY JAMES—33 Maple St., Little Ferry
BARASKAS, STANLEY MICHAEL—21 Bostwick Ave., Jersey City
BARBER, ANTHONY J.—508 Beechwood Ave., Middlesex
BARAUSKAS, STANLEY MICHAEL—21 Bostwick Ave., Jersey City
CICCHINO, DOMINIC ANTHONY—1203 Garden St., Hoboken
CALLANAN, FRANCES ROBERTA—612 Chestnut St., Roselle Park
CARLSON, DAVID J.—194 Central Ave., Madison
CIACHNO, DOMINIC ANTHONY—1203 Garden St., Hoboken
CIACENTO, GUIDO DANTE—224 Thomas Ave., Lyndhurst
CONNELL, DAVID C.—407 Karrigan Blvd., Newark
COOK, THOMAS JAMES—475 Mt. Prospect Ave., Clifton
CRANE, J. WELLINGTON—1601 St. Elizabeth
CRONIN, MAUREEN CATHERINE—406 Karrigan Blvd., New Jersey City
DAVISON, GEORGE JUDAH—1 Manchester Place, Newark
DeLORENZO, JOSEPH JOHN—1667 Blvd., Jersey City
De PASQUALE, JOSEPH ANGELO—74 N. 6th St., Newark
De ROSA, ROBERT—42 West 34th St., Bayonne
DEVEKIS, CHARLES JOSEPH—125 Main St., Orange
DI CERBO, ANTHONY ALBINO—315 Green St., Lyndhurst
DI CERBO, ANTHONY ALBINO—315 Green St., Lyndhurst
DONNELLY, WILLIAM JOHN—524 Sanford Ave., Newark
DOUGLASS, RICHARD EDWARD—260 Wavell Ave., Wharton
ECK, BERTIL—467 Roosevelt Ave., Lyndhurst
EHNERS, WILLIAM J.—50 Pitt St, Bloomfield
FARNHAM, DAVID CONWAY, JR.—570 Fairview Ave., Orange
FERNANDES, JACINTO—141 Franklin St., Elizabeth
FRANKOVIC, EDWARD JOSEPH, JR.—44 Center St., Clinton
FREIMUTH, GERHARD WILLIAM—269 Central Ave., Mountainside
GAINES, FREDERICK WELLER—176 Summit Ave., Waldwick
GALL, ALEX W.—572 Sweetland Ave., Hillside
GALINDO, JOHN DEXTER—67 Chadwick Ave., Bloomfield
GEORGE NORMAN GEISSLER—5856 Park Ave., West New York
GERUS, ALEXANDER L.—99 Princeton St., Maplewood
GIANNUZZI, LOUIS FRANCIS—10 Delaware Ave., Jersey City
GINTY, PATRICK DANIEL—11 Center Ave., Morristown
GOEPFERT, GEORGE JOHN—3 McKinley Ave., Colonia
GOLDSTEIN, LESLIE H.—137 Goodwin Ave., Newark
GUARDINO, DONALD ANTHONY—529 Valley St., Maplewood
HAGAN, DAVID BRIAN—351 Broad St., Newark
HANSEN, RALPH THOMAS—85 Dogwood Lane, New Providence
HATCHER, RONALD NOYES—17 Jumping Brook Drive, Neptune
HAEZELRIGG, GEORGE ARTHUR, JR.—60 Monmouth Ave., Deal
HERZOG, PHILIP S.—107 E. Main St., Bogota
HANNAY, PETER JOHN—530 Court St., Elizabeth
HOFBAUER, THOMAS JOHN—48 Lake Trail East, Packanack Lake
HOPE, RUSSELL M.—29 Woodland Place, Pompton Plains
IMBESI, CHARLES FRANCIS—655 Summer Ave., Newark
JACOBS, MICHAEL—37A Brunswick Place, Clifton
JAMISON, JOHN—115 5th St., Hoboken
JOHNSON, WALTER CARL, JR.—14 Virginia St., Jersey City
KATZENBERGER, GEORGE A., JR.—3 Berkeley Heights Park, Bloomfield
KEANE, EDWARD T.—2672 Hudson Blvd., Jersey City
KENDALL, NORMAN S.—110 Williams Ave., Jersey City
KENT, EDWARD R.—61 Kelder St., Springfield
KING, WILLIAM MARVIN—425 Mary St., Franklin Township, c/o Bound Brook South P.O.