WESTON HALL
NUCLEUS STAFF

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1955

OF ENGINEERING
Less than a week after receiving your editor's request to prepare a message for the *Nucleus*, it was my privilege to speak at a meeting of the New Jersey Federation of District Boards of Education held at Atlantic City. The topic of our discussion is not important to this message. What is important is that attending that meeting were a goodly number of our graduates who exemplify your theme, “NCE's contribution toward making the Engineer a better citizen.”

The audience was composed of men and women who are serving on Boards of Education and who are giving freely and unstintingly of their time and energy to our public schools. Circumstances, naturally, did not permit my talking with all of the NCE graduates who were present. Those with whom I did talk, repeatedly told me of the great personal satisfaction which they feel at being able, through their efforts, to make a contribution to the education of the young people of their communities. While realizing that membership on boards of education calls for sacrifices, they are sacrifices which they all are proud and happy to make, and they feel that, because of their engineering education, they have been able to make some very special contributions to the work of their Boards of Education.

Other examples of our engineering graduates practicing what is “preached” at NCE can readily be cited, but this particular example, coming so soon after your invitation to write a message for the yearbook which has as its theme “NCE's contribution toward making the Engineer a better citizen,” seemed particularly appropriate. May each of you search out opportunities to serve your communities in the years ahead and may you find considerable satisfaction in so doing.
Pride is a substantial element of a yearbook: pride of accomplishment, pride of parents reflected in their faces as they read, pride of the faculty as they look at the faces and reminisce. These demonstrations of pride have motivated all of us in part and will continue to do so.

Your pride now must be in your professional accomplishments, in your new found responsibilities as citizens and as planners and participants in the work and lives of others. Include in this your College, its alumni, and the ever increasing flow of new students.

With your help and the help of those that have preceded you, the College has grown into a potent force in the engineering profession and the community. As you accept our congratulations, know that we are proud of you.

DEAN OF ADMINISTRATION

WILLIAM HAZELL, JR.
Some look upon graduation as does the pallbearer who brushes the dust from his hands as he places the coffin in the hearse—a gesture which distresses those who see him and is expressive of a "that's that" attitude.

There is no finality about living. Most would dispute the finality of death. Not even the newly planned highways and bridges for the Metropolitan area will be adequate in ten years. Alas they may be inadequate before they are finished.

Most of us accept this rapid technical progress in the abstract though we often rebel if it affects us personally. We'd like to get away from it all. Those of us who graduated a number of years ago look forward to retirement, but I have serious doubt that anyone who really did anything when he was on the job will be able to retire and "get away from it all." Perhaps we can learn to live without certainty and not be overwhelmed by anxiety.

FRANK A. GRAMMER
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Herbert S. Soutar ........................................................ Auditor
From the point of view of the Class Adviser, the transition of the Class of 1955 from a somewhat hesitant group of individuals to a cohesive unit has been a unique and rewarding educational process.

Although this transition has been subtle, there are many indications of the effectiveness of capable hands working together. The 1955 NUCLEUS, the Ring Committee, and numerous committees for social affairs, have all performed effectively with a minimum of guidance from the Class Council.

If voluntary duties of this nature can be performed so efficiently, the increasing skill of the members of the Class of 1955, when employed professionally, must soon exert tremendous and continuous pressures against the most vexing problems of technology and society.

Although the transition which occurs from this point forward may be increasingly subtle, the Class of 1955 has been a source of much strength and many friendships. I hope you, too, will continue to treasure these associations.
If, as Socrates said, justice is the only real happiness, then any man who is about to enter into the professional phase of his life needs only a simple precept to guide his actions: Be just in all your dealings with yourself and with your fellows. Give of yourself to your community beyond the point of mere duty so that all can benefit from your creative mind. At the same time, seize every opportunity to broaden the scope of your own personality in order that you may continue to grow professionally and socially. If you live and work realistically while tempering your decisions, big and small, with idealism, then we are certain that each of you in the Class of 1955 will attain that personal success and fortune which we most sincerely wish for you.
"As an Engineer, I believe . . . that I should . . . render to my fellow men and to my community without thought of material recompense such service as will be taken for the greatest public good."

This phrase, taken from the engineer’s oath, points out the great obligation and responsibility the engineer has toward his community and his country. Keeping in mind the true importance of this statement and the obligation born with it, we the Class of 1955, with all sincerity and truthfulness, dedicate this yearbook to those engineers who have found it within their power to fulfill these obligations to their communities.

DEDICATION
INTRODUCING THE SENIORS
The course in Chemical Engineering develops the ability to work with intangibles and correlates the social, legal, human, and scientific responsibilities in the design, construction, and operation of the process industry plants. The student must always be aware of and willing to accept these responsibilities since he uses all materials over the widest range of temperature and pressure of any engineering field. The products of the process industries range from pharmaceuticals and food stuffs to heavy chemicals used in the process industries. In most instances the Chemical Engineer is able to follow his work to completion and in so doing is able to appreciate and respect his own handiwork as well as the work of fellow professional men in all fields. The influence of training on usefulness as a citizen is perhaps indicated by the material statistics that show the Chemical Engineer to be the best type of husband.
Dr. Charles L. Mantell:
"Now isn't it true that . . ."

Professor George C. Keeffe:
"You just need horse sense."

Dean James A. Bradley:
"That's the way God made it."

Dr. Carl W. Carlson:
"Anyone for bridge?"

Professor Michael Frederick:
"You'll never graduate."

Dr. Joseph Joffe:
"We'll take our intermission now."

Dr. Jerome J. Salamone:
"It's merely substitution."
NCE prepares its students to handle their obligations to their community by encouraging and developing . . .

STEPHAN BASARAB
Phi Eta Sigma; Tau Beta Pi; Honors Option; AIChE; Class Council; Nucleus staff; Bridge Club; International Relations Club.

His genial manner and ready smile have made Steve a popular fellow among his classmates. Scholastically, Steve has remained with the leaders throughout his college career. The members of the class will remember him for his many contributions to the activities of the college.

HENRY J. BUCHMAN
ACS; AIChE.

A credit to NCE, Hank is a hard worker, and his perseverance is truly an amazing characteristic. Outside of school, Hank has many interests. He has always the latest information on photography, sports, and popular music. His scholarship and cooperative spirit are but two of his outstanding qualities.

JOHN BACHA
ACS; AIChE; Dance Club.

Because of his friendly manner, John has gained many life-long friends in his stay at NCE. His outside activities include golf and dancing. Hard work here at college will undoubtedly insure John a successful future in the engineering field.

. . . technical ability . . .
DOMENICK A. BUTTIGLIERI
Honors Option; ACS; AIChE; Class Council; The Technician, Advertising Manager; Junior Achievement Company, Sales Adviser; Phi Beta Tau; Newman Club; Intramural Basketball.
Not only is Domenick a good student, but he has also participated in many extra-curricular activities. His combined professional qualities and initiative will assure him a successful and fruitful future. He will always be remembered for his extremely neat appearance and his pleasing nature.

WILLIAM M. CAWTHRA
ACS; AIChE; Pi Kappa Phi, Chaplain; Dance Club, Treasurer; Kampus Kapers; Newman Club; JV Basketball; Intramural Baseball.
Bill, nicknamed Wee Willie, has spent much of his time at the Pi Kappa Phi fraternity. One of the smallest members of the class, Bill nevertheless has gained merit as a sharp-shooter on the basketball court. He has played on the JV and the fraternity teams.

DONALD W. DAHRINGER
Honors Option; ACS; AIChE; Class of '55, Vice President; Social Committee, Co-Chairman; Visitor's Day Committee, Co-Chairman; Alpha Phi Omega; Kampus Kapers; Photography Club; Rod and Gun Club.
A great variety of interests and activities have occupied Don's time at NCE. Everyone who has seen Kampus Kapers is familiar with his work behind the scenes, and all the seniors know of his promotion of successful class functions.

ALFRED CORSANO
ACS; Senior Class Social Committee.
Because of his pleasant attitude, Al is liked by all of his classmates. He is a person who possesses many interests and because of these he has gained many friends in and out of school. His persistence in his studies will undoubtedly make him a successful engineer.
DAVID P. ELIEZER
ACS; AIChE.
Apparently thriving on hard work, Dave, however, carries his interests into other fields which include stamp collecting, hunting, and fishing. His persistence in his studies, combined with these outside interests, will enable Dave to become a great success in the business world.

THOMAS H. EGAN
ACS; AIChE.
Tom is an expert on the subject of automobiles in general, but even more explicitly on automobiles that he has owned. Tom is not limited to four-wheeled interests alone; but enjoys basketball, swimming, surf casting, and dancing as well.

RAYMOND J. FEHRENBACH
ACS; AIChE; NUCLEUS, Photography Editor; The Technician staff; Pi Kappa Phi, Historian and Secretary; Alpha Phi Omega, Treasurer; International Relations Club; Newman Club; Intramural Basketball.
For the time and effort Ray has expended in obtaining the excellent composition of the photographs in this yearbook, he has gained the commendation of the entire class. His knowledge of current international events and earnestness in college work are strong points in his personality.

... creativeness ...
RALPH A. GAZZILLO
ACS; AIChE; Senior Class Social Committee.
Ralph's interests progress from relaxation and basketball to dancing, at which he is an expert. His grey hair has been the cause of much conversation and will be what he is remembered for. He has served in the army and plans to marry in the near future.

WALLACE D. GEASLEN
ACS; AIChE; Honors Option; Pi Kappa Phi; Bridge Club; Intramural Basketball.
Wally may be small in stature, but certainly not in ability. He possesses a searching mind and an affinity for work. Outside of school he has worked part-time, while in college his high scholastic aptitude has distinguished him as an exceptional student.

EDWARD M. IRVING
ACS; AIChE.
Ted ranks high in scholastic ability as well as in diversity of interests. Besides attending classes, he has worked during his spare time supporting his wife and himself. Avid interest in boating, fishing, hi-fi, and bridge have still further occupied his leisure time.

FRANK J. GREMBOWITZ
ACS; AIChE; Intramural Basketball.
Frank is one of the more quiet men around the college. He is, however, an outstanding athlete, especially in basketball and baseball. Whichever field of chemical engineering Frank enters, he is sure to become a successful engineer.

ROBERT A. HESSE
ACS; AIChE.
Through his constant plugging at his studies and his untiring efforts to further the Bridge Club, Bob will long be remembered. His genial manner will undoubtedly help him become one of the leading sales executives in the engineering field.
EDWARD KATZ
ACS; AIChE; Junior Class Social Committee; Class Council.
Many may not know that Ed was born in Austria, but everyone is familiar with his distinctive sense of humor and inquisitive questioning of professors. Ed has worked his way through college and has still found time for many outside interests. Ambition such as Ed's is for many to achieve.

A. STANLEY HEUSER
Arnold Air Society, Adjutant Recorder; Phi Eta Sigma; Omicron Delta Kappa, Vice-President; Pi Delta Epsilon; Tau Beta Pi; Honors Option; AFROTC Achievement Award; ACS; AIChE; Student Council; The Cadet staff; Nucleus, Co-Editor-In-Chief; The Technician; Co-Editor-In-Chief; Rod and Gun Club.
High scholastic attainments and leadership in many of the college activities are evident of Stan's achievements. The yearbook literary work is an illustration of his industrious and thorough nature. Through these jobs well done, he has earned the respect and confidence of the class.

R. CYNTHIA KILEY
Omicron Delta Kappa Undergraduate Award; Pi Delta Epsilon; ACS, President; AIChE; Professional Societies Council, Chairman; Student Council, Corresponding Secretary; Class of '55, Secretary; Class Council; Nucleus staff; The Technician, Features Editor; Bridge Club; Dance Club; Kampus Kapers; Cheerleaders, Captain.
Long respected for her many activities as well as her fine scholastic record, Cynthia is admired for her willingness to assume positions of directorship in numerous phases of our college life. Student government, publications, professional societies, and cheerleading have all benefited from her excellent leadership.

... cooperation ...
DAVID W. KAISER
Arnold Air Society; Honors Option; ACS; AIChE; Class Council; Nucleus staff; The Cadet staff; JV Basketball.

Dave, with jovial laughter and a wit matched infrequently, is usually smiling and brightening up a class. His varied activities have gained him many friends at NCE. Besides his following of events in the engineering world, he has seen action on the JV Basketball Team and on the track field.

THEODORE E. MAKOWSKI
Tau Beta Pi, Secretary; Honors Societies Council; Honors Option; ACS; AIChE, Treasurer; Bridge Club; Golf Club; Varsity Baseball.

Ted is one of our most outstanding classmates. Among his many likes, two are most prominent: sports and playing bridge. Full of fun and always ready for a good laugh, Ted still finds time for the serious part of college—homework and tests.

JAMES A. LAWRIE
Arnold Air Society, Executive Officer; ACS; AIChE; Student Council; Social Activities and Visitor's Day Committees; Class Council; The Cadet staff; Nucleus, Art Editor; The Technician, Co-Editor; Alpha Phi Omega; Rod and Gun Club; Ski Club.

Jim has the unique capacity of being able to stimulate active interest and participation among the members of any group with which he is associated. Apparently thriving on hard work, he carries his interests into innumerable fields.

CIRIACO P. M. MAFFIA
ACS; AIChE; Class of '54, Treasurer; Alpha Sigma Mu; Photography Club.

An enthusiastic photographer, Jerry speaks with authority which is respected by his classmates and friends. He has worked very hard at NCE and participated in a great many college activities. His ambition combined with a pleasing personality will definitely assure him success in the engineering field.

RICHARD J. MASCIS
Arnold Air Society; Honors Option; ACS; AIChE; Class Council; Nucleus, Seniors Editor; Pi Kappa Phi; Rod and Gun Club.

His persistence in obtaining our senior write-ups made Dick a valuable asset to the Nucleus staff. Although he has worked extensively during his college years, he still has been able to maintain academic honors and participate in the Honors Option Program.
JOHN J. McMONAGLE
ACS; AIChE.
Born in Scotland, Mac is quick on wit and humor. He has seen service with the Air Force in Italy. Known at NCE for his generous contributions in Staff Control, he should be successful in dealing with personnel problems in industry.

JOHN J. PIASZYNSKI
ACS; AIChE; Alpha Sigma Mu; Intramural Basketball.
John not only has been a good student but has also found time to attend many of our dances and field trips and participate in outside activities such as hunting, fishing, and Ground Observer Corps. His friendly attitude and cooperative spirit have made him well liked by his classmates.

JOHN H. POCHANK
Tau Beta Pi; ACS, Treasurer; AIChE; Class of '55, Treasurer; Pi Kappa Phi; Dance Club; Intramural Basketball.
The trust his classmates have in John is reflected by the extensive list of organizations of which he has been treasurer. Enjoyment in seeing a job well done where many contribute to its overall success and his interest in mathematics typify his inquisitive nature.

... friendship ...
RONALD L. POLLARD
ACS; AIChE; Pi Kappa Phi; Chess Club; Varsity Soccer; Intramural Basketball and Bowling.

An active fraternity man, Ron has spent much of his leisure time in Pi Kappa Phi's activities. He possesses one of the most amiable personalities in the class and his calm and collective manner in any situation is admired by his friends.

ROBERT E. ROLLER
ACS; AIChE; Nucleus staff; Junior Achievement Company, Adviser; Intramural Bowling.

Bob's friendly nature and willingness to help others have made him popular with his classmates. His outside interests include music, bowling, and baseball. Bob takes up any task zealously and this quality backed by his pleasing personality will make him a success in industry.

LIONEL J. SIROIS
Arnold Air Society; Omicron Delta Kappa; Phi Eta Sigma, Secretary; Tau Beta Pi; ACS, Treasurer; AIChE, President; Professional Societies Council, Vice-Chairman; Student Council; Class of '55, Secretary; Class Council; The Cadet, News Editor; Nucleus, Co-Activities Editor; Kampus Kapers, Vice-President; Intramural Basketball.

Whenever scholarship is discussed, Lionel is likely to be mentioned. He has ranked high in his class, not only in scholastic ability, but also in activity participation. The combination of alertness, intelligence, and social-mindedness will make Lionel successful in industry.

GEORGE J. SWIER
ACS; AIChE; Alpha Sigma Mu; Bridge Club; Newman Club; Intramural Basketball.

During lunch hours, George is often found in the cafeteria playing bridge for relaxation from studying. Diversity of interest and ability to get along with people make his desire to work in sales engineering after graduation a certainty.

REYNOLD R. ZANETTI
ACS; AIChE; Class Council; Alpha Phi Omega; Bridge Club; Golf Club; Intramural Basketball.

Much of his spare time during his stay at NCE Reynold spent working in industry. Nevertheless, at bridge sessions he found time to discuss record collecting, scouting, and professional sports. His sincerity and confidence will be determining factors in his future.
JOHN H. DUFF
To the casual observer, Joe appears to be a very quiet person, but to those who know him, he is a happy-go-lucky fellow enjoying life to its fullest advantage.
His ambitions are to resume his hobbies of archery, fishing, and living a normal relaxed family life.

JOHN J. ZECCA
ACS; AIChE; Alpha Sigma Mu; International Relations Club, Secretary.
John returned to college to finish his studies after serving two years in the army. One of the more reserved members of the class, John knows what he wants, and his friends firmly believe that he will accomplish his goal because of his initiative and determination.

CHARLES G. BARBAZ
An avid tennis fan, Chuck makes time for his favorite sport, both summer and winter. The ability of solving his homework problems by such simple and direct means creates solutions that often confuse his instructors.
Chuck is married, and he expects to do graduate work at NCE in the near future.

JOHN H. DUFF
To the casual observer, Joe appears to be a very quiet person, but to those who know him, he is a happy-go-lucky fellow enjoying life to its fullest advantage.
His ambitions are to resume his hobbies of archery, fishing, and living a normal relaxed family life.

... achievement ...
HUGH ESTELLE
Hugh realized a lifelong ambition when he received his degree in engineering. Seventeen years after receiving his high school diploma, his dream became a reality with the help and guidance of his wife and four children. His immediate goal is a position in the petroleum industry somewhere in Southern California.

WILLIAM A. LANCASTER
A large briefcase loaded with an inexhaustible supply of notes will always remind us of Bill. It is expected that he will continue his education at NCE.
In addition to his efforts for his employer, Bill likes to devote his spare time to swimming, billiards, and gardening.

JOSEPH A. LEVENDUSKY
One of the few fellows who can give his classmates a six week handicap and still come out on top, Joe is known for his cheerful outlook on life regardless of circumstances.
After graduation Joe plans to devote most of his spare time to his wife and future large family.

JOHN R. PIKE
Practical ways of doing things instead of theoretical methods is John’s philosophy. He served in the Pacific during World War II, and he was married in 1948. After graduation, John will resume his hobbies of woodworking and photography and spend the rest of his time getting better acquainted with his family.

ROBERT H. MESSING
When not doing homework, Bob is usually relaxing in front of his phonograph listening to his large collection of records which range from Beethoven to Harry James.
Upon graduation, Bob plans to do all those things which he has been putting off while attending the evening sessions at NCE.
ROBERT ZIRO

Bob is an easy-going student who is able to accomplish many things with astonishing facility. A good dependable friend, Bob will be remembered for his technical ability and his willingness to help others at any time.

PETER O. SHULL

Of the stalwart individuals comprising the evening chemical engineering class, Pete has certainly proven to be one of them.

After graduation, Pete intends to devote more of his time in the warm circle of his family and friends. His future academic interests may involve some graduate work, but definitely more leisure reading.

RICHARD S. RINGER
Arnold Air Society; Student Council; Alpha Phi Omega, President; Drill Team; Rifle Club.

Under Dick's direction, Alpha Phi Omega, National Service Fraternity, was instituted at NCE. He was also instrumental in setting up the Student Services Booth. His ROTC activities include leadership of the Drill Team as well as being a member of the Rifle Club.

WILLIAM DRAGANCHUK

The sole remaining bachelor in the evening chemical group, Bill should be given an "A" for effort in maintaining his grades, while keeping an active social life.

After graduation, Bill not only plans to give more time to basketball, baseball, and fishing, but intends to further his education in Business Management.
CIVIL ENGINEERING
Heavy construction work and civil engineering are inseparable and their high level of activity is essential to the economic well being of our nation. But before we can build we must plan and design, and after the projects are built they must be operated and maintained. A program of road building is being contemplated that may call for the expenditure of ten billion dollars per year, or four per cent of our national earnings, for the next decade. Those who train for civil engineering will be helping to make our country a better place in which to live. The student-engineer of today will be the engineer-citizen of tomorrow.
Mr. Perron, Professor Shapiro.

Professor William S. LaLonde:
"We only lost one man, so that wasn't so bad."

Professor James M. Robbins:
"When I was in South America. . . ."

Professor Frederick G. Lehman:
"Supposing . . . ."

Professor Richard D. Mangasarian:
"I have no faith in the oral word."

Mr. Charles H. Perron:
"I memorized the whole book when I took the course."

Professor Leonard Shapiro:
"Every few years I have a class like this."
RICHARD ANDERSON
ASCE; Kampus Kapers; Intramural Basketball and Softball.
Enjoyable to be with at any time, Andy is perfectly at ease in all situations. He is as well-known for his excellent piano playing as he is for his joking with his associates. His exceptionally fine dry, satirical wit has endeared him to all his many friends.

ATHANASIOS ARGIRIS
ASCE; Student Council; The Surveyor; Ping Pong Club; Intramural Basketball.
One of the top men in his section Athanasios possesses a quick smile and a high degree of confidence. He is always ready to help his fellow students with any and all subjects. While at NCE, he has devoted much of his time to the activities of the ASCE.

THADDEUS FABIAN
ASCE; Interfraternity Council, Secretary-Treasurer; Phi Beta Tau, President; Rod and Gun Club; Wrestling Club; Intramural Softball.
Ted's always conducting a never-ending search for knowledge. An avid reader and news fan, he likes to spend part of his summer vacations driving through the States. He is an excellent fisherman, but his friends wonder whether he goes fishing to catch fish or to relax and find a new philosophy of life.

ERNEST CHRISBACHER
ASCE; The Cadet and The Surveyor staffs; Phi Beta Tau, Vice-President; Intramural Softball.
Ernie's interests are wide and varied but the majority of his spare time is spent in hiking, fencing, or pursuing his hobby of photography. An excellent student, he has a deep interest in civil engineering. If he could change the course of nature, Ernie would wish for year-round winter to accommodate his love of winter sports.

THOMAS CRIMMINS
ASCE; Pi Kappa Phi.
Tom's perseverance is worthy of a great deal of respect. He has always tackled his courses with his strongest efforts. Tom's reserved manner is accentuated by the fact he rarely complains and always sees the bright side of any situation.
FELICE R. GIOVANNINI
ASCE; Dance Club; Intramural Basketball.

"Bob" is one of the more mature civils. He is well-known for his prowess at both chess and cards and could be found in the Commons during most of his spare time enjoying both of these hobbies. A structural engineer by profession, he has a deep interest in bridge construction.

JOHN J. KESSLER, JR.
ASCE; The Nucleus and The Surveyor staffs; Skiing Club; Intramural Softball and Bowling.

John's practical engineering ability is boundless. One of the most successful men in the department, his wide background in many fields is well illustrated by the fact that he is an exceptional conversationalist. An outdoor man by nature, he hopes to find an engineering job that will keep him in the field as much as possible.

ANTHONY J. GRAHAM
ASCE; Arnold Air Society; Newman Club; Dance Club; Rod and Gun Club, secretary; Intramural Softball and Basketball.

Quick witted, amiable, and cheerful, Tony is liked by everyone with whom he comes in contact. He has a deep interest in everything he undertakes and has never been known to do a careless job. Tony's career inclinations point toward sales or managerial engineering.

... salesmanship ...
ANDREW KNAPP, JR.
ASCE.
Quick wit and exuberant humor characterize Andy. Known for his ability to stimulate any lecture, he is as well-liked by his instructors as he is by his fellow students. It is predicted that Andy will be a success in any future field of endeavor.

MELVIN KNOPF
ASCE; Tau Epsilon Phi; Intramural Basketball.
An exceptional student, yet very active in college activities as attested by the fact that he is president of the ASCE, Mel will be both an excellent engineer and a responsible citizen. A veteran of the Korean War, he was married recently and enjoys a happy home life.

NILES A. KITCHEN
ASCE; Kampus Kapers.
A hard worker at all tasks, Niles has shown exceptional perseverance in his engineering studies. He has a pleasant personality and is extremely well liked by his classmates. As program chairman for the ASCE he has been very active in planning activities for the group.

MAXIM LEVITAN
ASCE, Treasurer; Senior Class Council; Dance Club; Intramural Basketball and Baseball Teams.
Mick is notable for the ease with which he gets along with people. Everyone who knows him likes him for his friendliness, wit, and good humor. His fine record as treasurer of the ASCE illustrates his awareness of responsibility.

RICHARD G. KRAEUTER
ASCE; Nucleus staff; Ski Club; Golf Club; Intramural Softball and Bowling Teams.
A rare combination of talents causes Dick to stand out in any crowd. His capacity for fun, sports, work, and conversation is boundless. His formal education, coupled with a highly developed analytical mind, point the way to future success.
CHARLES LIPE
ASCE.
Charles' ability to reduce problems to the essentials as well as his interesting speaking manner combines to make him a welcomed participant in any circle. Such a personality combined with an intense interest in science insures his success in civil engineering.

JAMES McGARVEY
ASCE.
His interest in world political affairs and engineering is a combination that makes Jim's future look bright. While at NCE, Jim was active in the ASCE. Amiable and extroverted, he will go a long way after graduation.

RALPH W. MAACK
ASCE; Arnold Air Society; Section Representative.
An undaunted spirit and a love of life are attributes which Ralph possesses to a high degree. Among his many extracurricular activities he has turned in a sparkling performance and demonstrated his leadership abilities many times in the Arnold Air Society.

... sociability ...
**NORMAN NIELSEN**

ASCE; Rod and Gun Club; Tau Delta Phi.

As fraternity life characterizes friendship, Norm characterizes the principles of a fraternity. A good mixer with a happy smile and a dry wit, he can constantly be found in a crowd of his many friends. He is a conscientious student, an ex-marine, and an active member of Tau Delta Phi.

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**DANIEL POLIS**

ASCE; Arnold Air Society, Treasurer; Omicron Delta Kappa; Class Council, Treasurer; Essex County Professional Engineers' Scholarship; Editor, The Cadet; Co-Business Mgr., The Nucleus; Captain, Fencing Team.

Dan has an extremely high scholastic record and will be remembered for his exceptional performance in extracurricular activities. He is well known for his organizational and leadership skills demonstrated many times in his activities. He is a sports enthusiast and a man with a good background in a multitude of fields.

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**JOSEPH TARANTINO**

ASCE; Intramural Basketball.

After nine years in industry, Joe returned to college to lead the Civil Department scholastically. With his fine record he is certain to be an outstanding engineer. A happily married veteran with a two-year-old daughter and an avid follower of politics and current events, Joe still finds time to help his fellow students whenever possible.

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**FRANK M. SCUDESE**

ASCE; Alpha Phi Delta; The Surveyor staff; Rod and Gun Club; Intramural Basketball.

Known for his great wealth of industrial knowledge, Frank always has the answers to field problems. Although he is always worried before a test, he is always confidently cool afterward. With his keen sense of judgment it is certain that his construction business will thrive.

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**ROBERT E. ROBINSON**

ASCE; Pi Kappa Phi; Intramural Basketball; JV Baseball Team.

His exuberant personality shows in Bob's ready smile and hearty laugh. Always interested in other people, he is an active supporter of dances, parties, and fraternity life. He is always willing to discuss any topic which may be under controversy.
FREDERICK WIEGLEB
ASCE; Secretary, Sigma Pi.
Fred is one of the few students who live “on campus” (Sigma Pi). By getting up at 8:45, he can reach class by 9:00. His quiet and serious nature combined with a mature approach to his work has gained Fred many close friends at NCE.

THOMAS C. AULITA
A sergeant in the E.T.O. during World War II, Tom intends to continue the hectic schedule he has so good-naturedly endured in the past few years. In addition to devoting more time to his two daughters—and his model railroad, Tom plans to come back to NCE for his M.S.

ALVAN THOMAS CARROLL
While attending school at night, “Jeep” worked as a structural designer for about four years. He plans to continue work in the structural field and possibly even obtain his masters at NCE. “Jeep” is married, and among his many interests are weight lifting, swimming and bowling.

... relaxation ...
JOSEPH F. SULLIVAN
Ever since he brought his booming laughter and inquisitive mind to NCE, Joe has been both bane and balm to his instructors. Outspoken and forthright, Joe hails from Bayonne, but mentally he is “from Missouri.” Joe hopes some day to be known as the second builder of the bridge.

WALTER L. WEST
Walt, an evening student, was born in New York City, but moved to Plainfield in sufficient time to complete his high school education. He served with the U.S. Navy during World War II. Walt is married and possesses a responsible job in the civil engineering field.

ALFONSE J. SORIENTE
Al, whose personal motto seems to be semper paratus, never allowed his serenity to be disturbed by the unannounced quizzes that caught us more mortals short. From now on, Al plans to insure that serenity by a liberal use of a fishing rod, with his two sons, Michael and Raymond, as companions.

JOSEPH BENNICE
An extremely likable fellow, Joe has that type of congenial spirit which makes him a real friend to all who know him. He has studied hard and his future appears bright.

FRANK COSTABILE
Frank is one of those unusual people who has been able to combine an enviable scholastic record with a heavy extra-curricular schedule. He is a born leader with an alert mind. As one of the most diligent workers for our class, Frank has left an indelible mark on the school.

GEORGE F. SPAGNOLA
A serious student who dislikes procrastinators, Spag practices what he preaches. He is already working as a civil engineer on the Newark Bay Bridge. Homelife can be expected to replace homework for “Spag” now, for he was married only a year ago.

HENRY E. KING
A graduate of the Cardinal Hayes Memorial High School, Henry also served with the navy in the Pacific during World War II. During his stay at NCE he worked for the New Jersey Highway Department. Henry plans to put his best efforts into his job after graduation.

MARTIN LIEBERMANN
The “affable red-headed civil” describes Marty perfectly. A congenial fellow who has a kind word for all mankind, he is well liked by all. He has worked hard at college, and his capacity for any job ensures him constant success.
The Electrical Engineering Department seeks to develop educated engineers. Part of this education is aimed toward producing good citizens. In attaining this goal, several activities are based on the old adage, "If one would become a leader, he must first learn to follow." In the laboratories, in the student professional societies, and with the Visitors' Day and other student activities, the workings of society on a small scale are simulated. Through cooperative planning and executing of projects, where the rights and obligations of fellow students and fellow groups are recognized and respected, the student engineers learn and practice good citizenship. These future electrical engineers also see that individual responsibility and individual contribution are necessary before achievement by any group. Also, these group activities provide opportunities for individuals to exert leadership. Such experiences contribute to the educated engineer so that he will be a leader in recognizing and fulfilling his obligations as a citizen to his community and to his fellow man.
Dr. Harry S. Dixon:
"Are there any questions?"

Dr. Frederick A. Russell:
"I'll have to look into that."

Professor Robert D. Anderson:
"I'm talking transformers now."

Professor Donald W. Dickey:
"Don't kick the field open or you will be picking copper bars out of your vest."

Professor Solomon Fishman:
"Quick, before the bell rings!"

Professor William Jordan:
"It's all in the book."

Professor Paul C. Shedd:
"Let's have a vote on that."

Mr. Robert R. Meola:
"It says here . . . ."

Mr. J. Padalino:
"What's the matter with you guys?"

Mr. Robert H. Rose:
"That's a good problem for a computer."
MICHAEL BASH
AIEE; Tau Epsilon Phi.
Mike's extremely interesting background makes him the most travelled
man in the department. After graduation, he hopes to earn his M.S. while
gaining industrial experience before entering the television tube production field.
His free time is divided between the activities of Tau Epsilon Phi and his
amateur radio station which he maintains at his home.

WILLIAM R. CAPUTO
Omicron Delta Kappa; Phi Eta Sigma;
Eta Kappa Nu; President, Tau Beta Pi;
AIEE; IRE; Chairman of Ring Committee.
Although participating in many outside activities, Bill maintained a very high
scholastic standing. He has been ambitious, honest, and always willing to
give help whenever needed. His future plans include earning M.S. and D.Sc. de-
grees from Columbia and Princeton respectively. Bill intends to go into the
research phase of electrical engineering.

ROBERT J. CHAYA
AIEE; Class Council; Chess Club; Intramural Basketball.
Bob is looked upon by his fellow classmates as a friendly and jovial stu-
dent who was always first with the homework problems. How he found time to
study as much as he did was a wonder, since much of his time was spent at the
Elizabeth (N. J.) Chess Club and even more hours were spent in the clouds in
his own plane. Bob's future career plans are undecided, although he intends to
do graduate work at NCE.

... talent ...
CHARLES R. DEININGER

Arnold Air Society; Omicron Delta Kappa; Phi Eta Sigma; Pi Delta Epsilon; Tau Beta Pi; AIEE; IRE; Technician staff; The Nucleus staff; Student Council; Rod & Gun Club; Yacht Club; Westinghouse Patent Award; Intramural Basketball.

One of the top men in the graduating class, Dick has combined a creative imagination with a practical viewpoint as shown by his receiving a Patent Award from Westinghouse. Dick is respected for his willingness to cooperate on any project and to see it through to successful completion.

WILLIAM R. DEMMER

AIEE; Class Council; JV Basketball; Varsity Basketball; Intramural Basketball.

Bill is that hard-working fellow who will always be found plugging away at work. If he isn’t working with the books, he will probably be found playing basketball. Sports in general seem to be his major outside interest. His all-round ability and amiable personality are sure to make him a success in all his future endeavors.

ALAN G. FINKEL

AIEE; IRE; President, Radio Club.

Alan has been the heart and brain of the Radio Club at NCE during his undergraduate years. His interest and knowledge in radio and electronics have made him a valuable asset to all in his laboratory groups. His excellent scholastic record and his friendly and helpful manner will ensure him a successful industrial career.

WALTER DUCHENSKY

AIEE; IRE.

Walter was born in Perth Amboy and attended high school in Montclair. He has seen action in the United States Navy in the European Theater. While at NCE, Walter was active in both AIEE and IRE.

ROCCO D. FREDA

“Rocky” was born in Madison and attended the local high school. He enjoys various sports as well as following the latest advances in engineering. “Rocky” expects to enter the Air Force and then obtain a Master’s degree in electrical engineering.
GILBERT A. GODWIN
Secretary, Eta Kappa Nu; Treasurer, Phi Eta Sigma; Secretary, Tau Beta Pi; The Nucleus staff; Intramural Basketball.
A top scholastic record coupled with a vibrant personality identifies Gil to his friends. Even with college work, he finds time to devote to church activities. Gil hopes to earn a Master's degree and enter the field of management.

BERNARD D. GARFINKEL
AIEE; Chaplain, Tau Epsilon Phi.
Bernie was born in Poland, attended high school in Germany, and now lives here in Newark. His pet gripes are too much homework and an instructor saying "It is obvious to anyone." His serious, unassuming nature has gained Bernie many friends at NCE.

AMNON GORDON
AIEE; Tau Epsilon Phi.
Gordon was born in Tel Aviv, Israel, and has come here to study engineering. He is a sergeant in the Israeli Reserves and has served in the army from 1948 to 1950. His fine record at NCE makes a successful future for Gordon a certainty.

... humor ...
ROBERT F. HALL
AIEEE; IRE; Arnold Air Society; Eta Kappa Nu; Phi Eta Sigma.

When you hear that Ford with the rebuilt engine come booming down the street, it is probably Bob looking for a parking space. His car and all the unique remodeling that goes into it seem to be Bob's main outside interest. He will always be remembered for having all the problems done in class. His helpfulness to other students was shown by his tutoring in the Phi Eta Sigma program.

CLIFFORD P. HEIDRICK
Arnold Air Society; Eta Kappa Nu; IRE; AIEEE.

In addition to being a Dean's List student, Clifford has been engaged in extracurricular activities as the AIEEE, IRE, Eta Kappa Nu, and the Arnold Air Society. Clifford also devotes considerable time to his hobbies of radio and photography.

HOLGER R. JENSEN
AIEEE; IRE.

Holger is another of those golden-earned hi-fi fans, but that is not for what he is most noted. He always has a colossal word to replace your whole sentence. While at NCE, Holger spent much of his time with AIEEE and IRE activities.

JOHN H. KING, JR.
Arnold Air Society; AIEEE; IRE.

John is one of the most popular students as well as the most ardent audio enthusiasts around the College. His meticulous design work and long hours of construction to hear that low-low organ pedal note or the shrill flute in Beethoven's "Fifth" prove how ardent a fan he is.

MARTIN KATZ
AIEEE; President, Class Council; Student Council; The Technician staff; The Nucleus staff; Tau Delta Phi; Chess Club; Kampus Kapers.

Marty attended high school in Paterson. He has been a very active member of the student body, always willing to offer a helping hand. His ambitions include a degree in law and a political career.
WILLIAM LANE
AIEE; IRE.

Bill is noted for his natural ability as a raconteur in relating his past experiences in liberal arts classes. He is actively engaged in AIEE and IRE activities. His easy-going but serious attitude toward engineering insures success in his field.

WALTER F. KOSONOCKY
Eta Kappa Nu; Phi Eta Sigma; Tau Beta Pi; IRE; AIEE; Photography Club; Rifle Club.

"Kos" was born in Poland, attended Ukrainian High School in Germany, and was graduated from Newark Central Evening High School. Outside of NCE Kos has been a president of the Ukrainian Student Association. He hopes to obtain his Master's degree in electrical engineering and aims for a career in design.

IRA MALKIN
IRE; AIEE; Tau Delta Phi; Ping Pong Club; Radio Club.

"I" was born here in Newark and attended Irvington High School. His friends remember Ira for his experience in the television repair field. After school hours "I" works for himself fixing TV sets. He hopes to make a career in the design and production of electronics equipment.

... ideals...
MARTIN MALONE
AIEE; IRE.
"Marty" was born in Paterson and was graduated from Paterson Central High School. "Marty" also has gone to the RCA TV Servicing Institute. After graduation, "Marty" hopes to enter the field of guided missiles and obtain his Master's degree.

ROBERT W. MESSERSCHMIDT
AIEE; Class Council.
Bob was born in Jersey City and attended high school in North Plainfield. At present Bob is a sergeant in the reserves. His hobbies include photography, automobiles, and electrical equipment. After graduation Bob expects to enter military service and enter the management field.

ROBERT A. MYERS
Class Council.
Bob came to NCE in 1952 after two years at Cornell. Spare time finds him pursuing his favorite past time, fishing. Quiet and soft-spoken, Bob's characteristic of being a helpful friend will be an asset to him in his future work.

ROBERT F. QUINN
Phi Eta Sigma; IRE; Class Council; Intramural Basketball.
The tall, thin fellow towering above all the rest is probably Bob. Somewhere he developed the technique for not taking a single note or doing very much homework. Yet he still got top marks. Don't forget Bob's sly remarks in class. When he gets on the track of something which seems puzzling, there is nothing that can strip him until a satisfactory solution is arrived.

JACK PARISER
AIEE, President; Class Council.
A flashing smile and a warm, friendly handshake best characterize Jack. Known as a man who could get the job done, he was sought to serve on a number of committees. His enthusiastic interest in photography qualifies Jack as the "well-rounded student."
CHARLES H. ROSNER
Secretary, AIEE; IRE.
Coming to NCE from the Real Gymnasium, Hamburg, Germany, Karl's quiet attention in class has earned him a fine record at NCE. Karl enjoys a game of chess, listening to good music, or catching up with the writings of the great philosophers.

OTTO A. REICHARDT
Arnold Air Society; IRE; AIEE; Bowling Team; Ski Club; Rod and Gun Club.
Otto is a man who always seems to be at peace with the world; always friendly, considerate, and affable, he has had many friends during his stay at NCE. A fine record in college points the way to a successful future for Otto.

HANS W. RUDOLPH JR.
Arnold Air Society; Eta Kappa Nu; Phi Eta Sigma; Tau Beta Pi; IRE; AIEE; Intramural Bowling.
Although married and holding an outside position, Hans maintained an enviable scholastic record while at NCE. Meticulous in every phase of his work and hobbies, Hans has one of the brightest futures in the graduating class.

... spirit ...
GORDON R. SCHWARZ
Arnold Air Society; Eta Kappa Nu; Phi Eta Sigma; AIEE; IRE; Class Council; AFROTC Junior Award.

In addition to being on the Dean’s List throughout his college career, Gordon has exhibited extracurricular interest by participating in varied college organizations. A capable student, Gordon has an appreciation for classical music and devotes much of his spare time to listening to it.

GEORGE SIWOLOP
IRE; Class Council.

George, born in the Ukraine, came to this country in 1950. He is well-liked by his classmates because of his conscientious nature and willingness to help others. After graduation, George plans to work for his M.S. degree at night.

GEORGE D. TKACH
AIEE; IRE.

George has one of the most pleasing personalities in the class. He is always ready with a smile and willing to help whenever possible. Fishing and hunting claim much of George’s free time.

DAVID TESCHNER
AIEE; IRE; The Technician Staff; Bowling Team.

Dave is one of those unusual people who have been able to combine an enviable scholastic record with a heavy extracurricular schedule. As one of the most diligent workers in the class, Dave has gained many friends while at NCE.

CHARLES P. THEILLER
AIEE; IRE; Class Council; Chess Club.

Charles was born in Paterson and went to Paterson Central High School. He likes to spend his spare time playing basketball and softball. Charles is hopeful for a career in electronic design, while obtaining a Master’s degree at night.
RONALD WAXMAN
Arnold Air Society; Phi Eta Sigma; AIEE; IRE; Class Council; The Cadet staff.
Ron's favorite spot at NCE is in the E.E. Maintenance Laboratory. After class hours he is usually there keeping the equipment in good repair. Ron's capability and conscientious approach to all situations should help to make him a success in all he does.

Y. JOSEPH YAWORSKY
Eta Kappa Nu; Tau Beta Pi; AIEE; IRE; The Nucleus Staff; President, Chess Club; Tennis Club; Ping-Pong Club; Radio Club.
Joe was born in Western Ukraine and attended high school in Europe and at Thomas Jefferson in Elizabeth. His hobbies include stamp collecting, photography, and chess. Joe hopes to earn a Master's degree in electrical engineering and go into supervisory work.

CHARLES F. ZAHNER
Eta Kappa Nu; Phi Eta Sigma; Tau Beta Pi; AIEE; IRE.
Charlie's was a familiar face at NCE, for he was the reliable milkman in the Commons whom almost every student in the school patronized at one time or another. He plans to take his M.S.E.E. at NCE upon graduation, after which he intends to do research work in communications.

... thoughtfulness ...
KARL H. ZENTMAIER
Secretary, Eta Kappa Nu; Omicron Delta Kappa; Vice-President, Tau Beta Pi; President, IRE; AIEE; Class Council.
Karl, having transferred to NCE from the Cooper Union, will be remembered as one who always tried to do his best. As a result, his scholastic standing was high. Karl also did his best in extracurricular activities. It seems certain that these qualities will ensure Karl a successful career.

MATTHEW P. BEATTIE
Matthew demonstrated remarkable aptitude for electrical engineering. Although the field is widely varied in its activities, we know that Matthew will conquer one of its phases. His imperturbable personality and steadfast ability assure the profession of a good man.

BERT G. BOER
Bert has made many lasting friends during his stay at NCE. He is employed by the Otis Elevator Co., in New York City, and plans to follow a career in sales engineering. Bert spends most of his spare time with his family and in participating in various sports.

JOHN D. CARLSON
In the Pacific Theater, John saw action with the Amphibious Forces as a Lieutenant j.g. in the USNR. John, known as “Old Man” by his friends, is employed at the N. J. Bell Telephone Co. His family and his hobbies take up most of his spare time.

JAMES A. CARDELL
Jim saw action in the Atlantic and Pacific Theaters as a member of the Navy for three years. His friends in school respected his vast experience in the field of electric motors. Jim is married, and he intends to follow a career in business.
NICHOLAS P. DE LUCA
An employee of the Am. Tel. & Tel. Co., Nick is considering an engineering career with the company. Also among his future plans is an M.S. degree in electrical engineering. Nick is married and served in the European Theater during World War II.

RALPH R. FERRY
Another native of Newark, Ray served in the European Campaign during the last war. He is at present employed by the Allied Control Company and intends to obtain his M.S. degree in electrical engineering. Among his various interests and hobbies are tennis, archery, chess, and bowling.

JAMES E. EHRENBERG
An industrious and enthusiastic person, Jim is always ready to give a helping hand. After his stay in the service, he entered NCE in pursuit of an engineering education. Jim is married and intends to follow a career in the field of production engineering.

... congeniality ...
FRANK J. FEYDER, JR.
Frank saw action in the Pacific during the last war as a member of the Signal Corps. Known as "Skipp" to his friends, Frank has many interests, among which are photography, spearfishing, woodwork- ing, and boats. Frank is married and is employed at RCA Victor.

THEODORE C. FOUST
Ted was born in Pennsylvania but now resides with his wife and family in New Jersey. An outstanding student, Ted has future plans of becoming a patent attorney. Among his favorite interests are photography, bee keeping, and a radio (K2HSC).

WALTER S. HAHN
A native of Newark, Walt served in the European and Pacific Theaters as a member of the Signal Corps. He is now employed by the N. J. Bell Telephone Co. and plans to make his career with the company. Along with his family, Walt also has a keen interest in the raising of shepherd dogs.

ROBERT W. KLUMB
Bob and his family live in Clifton, New Jersey, and he is employed by the New York Telephone Company. He intends to further his education by obtaining his M.S. at Syracuse University. Bob's career plans follow the lines of computer development.

ALFRED KERKEN
After transferring from Union Jr. College, Al made an impressive scholastic record in NCE. He is employed at Bell Labs as a Technical Staff Associate and would like to make a career in control engineering. Al plans to get his M.S. at NCE, and among his hobbies are audio, hi-fi, and electronic "gadgets."
JOHN N. LEE

Working for Bell Telephone Laboratories for thirteen years, John has achieved the position of Technical Staff Associate. He plans to obtain his M.S. degree at Stevens upon graduation and also to continue working for Bell. A very good athlete, John is a regular member of the YMCA.

RICHARD D. MELICK

Serving as a lieutenant during World War II, John spent three years in Europe. He entered NCE shortly after his marriage. His immediate future plans are a M.S. degree in management leading to a career in management. He is active in many engineering organizations.

PAUL E. MAGDEBURGER

Paul attended Cornell University before entering NCE and he also served as a 1st Lieutenant in the Corps of Engineering for three years. At present, he is employed as a patent engineer and intends to further his education along these lines. Paul is married and has two children.

DONALD J. O'BRIEN

Before entering NCE, Don served with the U.S. Signal Corps for two years. A native of Newark, he attended Seton Hall Prep. Don has been quite active in school activities, participating in varsity baseball, intramural basketball, and the AIEE.

LAWRENCE T. MAY

Although the war interrupted his education at NCE, Larry's determination to obtain his degree made him successful. Very friendly and easy to get along with, he plans to obtain his M.S. in management engineering. Larry is married and among his many hobbies are photography, optics, gardening, and choral singing.
GEORGE H. RUSSELL
NCE will long remember George—his personality and his accomplishments. A leader and a member of many societies and causes, George was noted for his eagerness, his humorous puns, his ability to organize, and his intelligence. His subtle humor and keen understanding of people made him well-liked.

KENNETH O. SCHELLER
Ken served with the Signal Corps as a technical sergeant for three years. He is employed by the Am. Tel. & Tel. Co. in Newark and expects to make his career with the company. Ken's family and other activities absorb all his spare time out of school.

WALTER R. SCHLEICHER
Although not definite on future education, Walt has been on the Dean's List many times at NCE. He served in World War II and during the last twelve years has held a responsible position with the Bell Telephone Laboratories. Walt is married and is a student member of the AIEE.

ROBERT J. HORAK
Entering college right after high school, John became one of the best students in night school. He has made the Dean's List many times and is well known for his scholastic achievements. John plans to obtain his M.S. degree at NCE and to follow an electrical career in television.

DONALD S. SIKORA
Don served in the Pacific Theater as seaman first class in the USNR. His interests lie in the field of instrumentation and he is at present employed by the Richardson Scale Company. Along with his interests in servo mechanisms and controls, Don is also active socially.

THOMAS J. RYSAVY
Thom is the well-liked, good-natured electrical with the friendly smile. Besides his schoolwork, Tom somehow found time to become known around the college for his basketball prowess. One of his chief interests has been to keep his car in fine trim. He was recognized by his classmates as an automotive expert.

ALAN R. SIMPSON
An evening student at NCE, Al was born in Newark and attended Hillside High School. He is employed by the Kearfott Manufacturing Corporation and intends to enter the navy in the future. Al will most be remembered for his technical ability and his willingness to help others.
While engineering is a hard taskmaster, demanding endlessly of its disciples, it is a very rewarding profession, giving much in return for those who do their jobs well and honorably.

Life after Commencement Day, while new in many respects, is not a completely different mode of living. The same principles of honesty, hard work, fair play and service to others that have been instilled in you during your college days are as important in shaping your professional growth as they were in preparing you for graduation.

These habits and principles have been firmly developed at N.C.E. May they serve you well in your careers as mechanical engineers.

For the past four years you have been exposed to many basic laws of nature, science and engineering. At this institution you were further exposed to what we can formally call laws of mankind involving economic, political and humanitarian problems.

Too many of us consider the government an automatic machine. Your training should have taught you that no matter how automatic a machine is it still requires careful maintenance and trained watchful operation.

As an engineer and citizen your obligations require you to interest yourself in public affairs in order to maintain and select proper operators of the highly important products produced by our government, namely security and welfare of the people.
Professor George B. Thom:
"Now we will have a teaser."

Professor Jerome L. Polaner:
"Before we go on, I want to clear up one confusing point."

Professor Robert E. Bannon:
"At least 20% of you will still miss this question."

Mr. David J. Crimmins:
"I want to be like Professor Olsen."

Professor Edward Miller:
"Has everyone in this section joined the ASME?"

Professor Leroy S. Olsen:
"You can take this course over at Columbia."

Professor John O. Predale:
"Now, gentlemen . . ."

Mr. Lawrence J. Schmerzler:
"Join the ASME."

Professor Theodore A. Schneider:
"Look it up in Shoop and Tuve."

Professor Eugene H. Smithberg:
"Mr. Zimpo, you remind me of my childhood."

Mr. Eugene Stamer:
"When I was with N.A.C.A. . . ."

Mr. Jerome H. Weinstein:
"The Giants will win."

Professor Oliver J. Sizelove:
"According to the Gilbreths . . ."

Dr. William J. Jaffe:
"To be absolutely truthful and frank . . ."

Mr. Galen T. Goewey:
"Do we understand each other?"

Professor Irving R. Goldstein:
"If you like . . ."

Professor Joseph A. Rich
"That is the way the ball bounces."
HAROLD T. ANDERSON
ASME; Alpha Sigma Mu, Photography.
Always jovial and ready to lend a hand, Harold has made many friends. He has particular ability in photography, one of his hobbies. His experience as an aviation electrician's mate in the U.S. Navy gave Harold a further interest in electrical mechanisms.

ANTHONY L. BANCALA
ASME; Belt Squeals; Intramural Basketball.
Tony is known primarily for his perpetual good humor and friendliness. His principal extra-curricular activities have been outside of school with basketball and softball teams in the Newark area. Tony's conscientious attitude toward his work is sure to make him a success after graduation.

DOUGLAS R. AMOS
Tau Beta Pi, Omicron Delta Kappa, Pi Tau Sigma, Phi Eta Sigma, Arnold Air Society; ASME; Student Council, Class Council, Honor Societies' Council; Nucleus, The Technician; Phi Beta Tau, Chess, Glee Club, Kampus Kapers, Ping-pong.
Although always near the top of his class scholastically, Doug has been outstanding in extra-curricular activities. His warm friendliness, sincerity, and ability to display leadership are a few of his attributes that will aid him throughout life.

ANTHONY L. BANCALA
ASME; Belt Squeals; Intramural Basketball.
Tony is known primarily for his perpetual good humor and friendliness. His principal extra-curricular activities have been outside of school with basketball and softball teams in the Newark area. Tony's conscientious attitude toward his work is sure to make him a success after graduation.

FRANKLIN J. BARBOSA
ASME, SAM; Dance Club, International Relations Club, Newman Club; Basketball, Softball.
Dark and quiet, but not at all shy, Frank is best described as "one of the boys." His good nature has paved his way to popularity. When Frank believes in something, he stands up for it with an unequalled sincerity.

FRANK A. BIANCO
ASME, SAM; Class Council; The Technician; Alpha Phi Delta.
Here is one of the friendliest of the seniors; Frank is always part of the group. He enjoys whatever he is doing, whether it is scholastic or social. Although he is carefree in his ways, he is a fine worker and a friend in need.
RAYMOND BILANCIA
Arnold Air Society; ASME; Nucleus; Basketball.
A product of East Orange, Ray has made many friends with his quick smile and rapid-fire subtle humor. With the fine record that he has acquired we feel sure that he will achieve any goal he desires.

JEROME BODEN
Pi Delta Epsilon; ASME, SAM; Student Council, Class Council.
His willingness and ability to accept responsibilities make Gerry a sure-fire success in the future. Apart from all his sincerity is a quiet friendliness that has enhanced his popularity.

JAMES M. CAMERON
Pi Tau Sigma; ASME.
Jim's favorite comment is "Let's go fishing." In addition to being a real fisherman, Jim is quite a skilled photographer. His excellent work in school combined with his ability to speak in public should help Jim go far in the engineering field.

... scholarship ...
EDMUND CARUSO
ASME.

An easy going student, Ed is able to accomplish many things with amazing facility. Ed is a good dependable friend who is always willing to help others. Added to these qualities is a thorough technical ability.

ANTHONY G. CAPRIO
ASME.

Cap often amazes his fellow students with his practical knowledge and ability gained working in industry while he attended college. He has an intense interest in gadgets. His success in life will be enhanced by his friendliness and determination, as well as his practical ability.

WARREN W. CEELY
Arnold Air Society; ASME; Student Council; Nucleus; Kampus Kapers, Sigma Pi.

Well known for both his social and scholastic contributions, Warren is an outstanding senior. His light hair and light humor have shown into the sight of many. Warren has a remarkable ability to concentrate his efforts, making time more profitable.

JOHN C. CITTOADINO, JR.
ASME; Belt Squeals; Nucleus; The Technician; Alpha Phi Delta; Basketball, Bowling.

John, whose keen sense of humor is admired by many, does good work without much apparent effort. His varied interests range from basketball to tinkering with his car. With his earnest and helpful attitude, John is assured of success.

BERNARD COHEN
ASME; Class Council; Intramural Basketball.

Presently employed installing and repairing window air conditioners, Bernie is aiming for a career in air conditioning design. His many outside interests include life saving, swimming, and basketball. Also, one will often find that Bernie has “gone fishing.”
CHARLES A. DEGEISO
ASME, SAM; Class Council; Kampus Kapers, Rod and Gun; Basketball.
One of the most unpredictable seniors, Charlie and his antics will long be remembered in the reminiscences of the good times had. Whether he is seriously studying or indulging in a jamboree, he is always willing to help male or female.

BERNARD R. FALLON
ASME, SAM; Basketball, Softball.
While most times he is quiet and unassuming, whenever there is an unanswered question, Dick is the boy to answer it. His past experience in industry, combined with his vast amount of newly acquired knowledge, indicates that he is sure to climb the ladder of success.

DONALD A. DUNN
Pi Tau Sigma; ASME; Christian Fellowship.
Don is a quiet, calm fellow who does not ordinarily speak out unless he has something worthwhile to say. He is also known for his determined and diligent attitude toward his school work. Add to all this the ease to inspire friendship, and Don cannot help being a successful missionary.

... curiosity ...
WILBER H. GIBSON
ASME; SAM.
Backed by plenty of industrial experience, Will has certainly been a helpful addition to his lab groups. While at NCE, he earned an enviable scholastic record. Will's willingness to assume responsibilities will be a valuable asset to him in his future work.

ANTHONY N. FUSCHETTO
ASME; Interclub Council, Dance Club, Glee Club; Intramural Basketball, Ping-pong.
A graduate of South River High School, Tony is still a little undecided about his future plans. This young man from Hilltown, New Jersey, is to be remembered as the quiet and likable fellow we knew him to be.

ROBERT FELBER
ASME.
A real understanding and interest in people make Bob one of those people whom everyone would like to have as their friend. His many outside hobbies include photography, cars, airplanes, and ships. Bob likes engineering work and has attained good grades.

ANTHONY N. FUSCHETTO
ASME; Interclub Council, Dance Club, Glee Club; Intramural Basketball, Ping-pong.
A graduate of South River High School, Tony is still a little undecided about his future plans. This young man from Hilltown, New Jersey, is to be remembered as the quiet and likable fellow we knew him to be.

RICHARD A. GAAL
Pi Tau Sigma; ASME; Student Council, Class Council; Sigma Pi; Basketball.
A fellow with a very relaxed manner, Dick has been active in school affairs, especially in student government. In addition to his many extra-curricular activities, Dick has managed to compile an enviable scholastic record. His all-around ability, coupled with a fine personality, predicts a successful future for him.

LAWRENCE M. GERBER
ASME, SAM; Tau Epsilon Phi.
One of the old men of the MEMOS, he leads the class with a young determination. The father of two stout fellows, he finds that his hands are always full with more things than school work.
BOHDEN HAJDUCZOK

Varsity Soccer.
A very sportsminded man, he both plays and referees volleyball and soccer. He has been appointed official referee to the Ukrainian Olympics. His experience as a toolmaker and as a writer for the Ukrainian Daily will benefit him greatly.

LEO J. GRZESINSKI

ASME; SAM; Class Council; Pi Kappa Phi; Dance Club; Ski Club; Varsity Baseball.
Leo is the lion of his class. He is always ready for a joke but is serious when the situation necessitates it. He has been very active in intramural basketball and has become known as a menace to any victory-minded team.

WILLIAM HESSLER

ASME.
Bill is a man with a hello for everyone and a smile to go with it. A quiet fellow in class, Bill is well-liked by his classmates for his willingness to cooperate.

... communication ...
GEORGE J. KELLER
ASME.
George is one of those individuals who become the stabilizing element in any active discussion. His practical but logical outlook on life and its problems will certainly lead George to a successful career in whatever field of engineering he participates.

WILLIAM G. HYMER
ASME; International Relations Club; Rod and Gun Club.
All one has to hear is, “What’s the good word?” and he knows Willie is around. His past experiences range from being a student at the Red Bank Senior High School and Monmouth Junior College to being an engineer in the U.S. Merchant Marine and a first-rate husband.

RICHARD E. HOMAN
ASME; Varsity Basketball.
Seldom does one find a personality as friendly and yet as sincere as Dick’s. He stands out not only in physical stature, but also in scholastic capability. Dick’s athletic prowess and sportsmanship on the basketball court add to his other attributes and label him a certainty for success.

RICHARD KAUNECKIS
ASME; Class Council; Track Team.
Probably Dick’s greatest asset is his warm friendliness. His quiet manner and cooperative attitude are admired by all who know him. There can be nothing but success in his future life.

ANTHONY IVASKA
ASME; Arnold Air Society; Phi Eta Sigma; Dance Club; Newman Club.
Originally from Lithuania, Tony has made many friends with his captivating smile and his sincere friendliness. Although he has only been in this country a comparatively short time, he speaks English better than most people, is an excellent student, and has recently become a citizen of the United States.
WILLIAM KENEALLY
ASME; Newman Club.
There are few, if any, political events that escape Bill’s eagle eyes. His pleasant personality, his avid interest in politics, and his acquired knowledge of engineering give Bill all the attributes necessary for success.

GEORGE T. KENNEDY
Arnold Air Society; Omicron Delta Kappa; Pi Tau Sigma; Student Council, President; Class Council; Golf Club; Kampus Kapers, Vice-President; Newman Club; Rod and Gun Club.
A reflection of his brother Jack, George shares similar interests. As Wing Commander of the AFROTC and President of the Student Council, he has contributed much to his classmates. Because of a personality that only an Irishman can have, George has many close friends.

JOHN J. KENNEDY
Arnold Air Society; Omicron Delta Kappa; Pi Tau Sigma; Student Council; Class Council; Bridge Club; Kampus Kapers; Newman Club; Rod and Gun Club.
If there’s a party, Jack will be there. Golf, basketball, spearfishing, dancing, hunting, and many other activities interest him. Jack is seen regularly at social functions at College, and few men have accomplished more in their four years at NCE than he.

... service ...
WILLIAM KINDZIERSKI  
ASME; Varsity Basketball.  
Bill, whose pleasant personality is certainly a great asset, should have little trouble in projecting his friendliness on whomever he contacts. In addition to maintaining a high scholastic standing, Bill has managed to actively participate on the varsity basketball team.

STEPHEN S. KIELB  
ASME; SAM, Treasurer; Dance Club; Newman Club; Rod and Gun Club; Varsity Baseball.  
A happy-go-lucky man, Steve has made many friends at NCE. Although he may appear quiet to strangers, his classmates know how interesting he is. One of his hobbies is tinkering with his car.

SIDNEY LAWSON  
Tau Epsilon Phi; ASME; SAM.  
A MEMO from the day he entered NCE, Sid has always impressed everyone with his drive to reach the top. As an active member of Tau Epsilon Phi, he puts his best efforts into everything he does. His brothers will never forget his discussions on “the philosophy of an NCE student.”

ROBERT A. LIVERMORE  
Pi Tau Sigma; Tau Beta Pi; ASME; SAM; Class Council; Student Council; The Nucleus staff.  
Yearning in desire to acquire knowledge, Bob is the perpetual student. But his likes are not held to only matters of school; Bob is quite an automotive enthusiast. Everyone will always remember him for his sparkling good humor.

ALFRED KIRSCHE  
Arnold Air Society; ASME; Vice-President, Freshman Class; Class Council; Student Council; Inter-Club Council; Co-Business Editor, The Nucleus; The Cadet staff; Golf Club; Dance Club; Kampus Kapers; J. V. Basketball Team; Intramural Basketball.  
One of NCE’s most ardent golfing enthusiasts, Al can be found on the links whenever weather and studies permit. He also finds time for a multitude of extracurricular activities and social events. Al’s fastidious nature helps him to do an excellent job in whatever he undertakes.
CHARLES D. MANOGG
ASME; Class Council; The Nucleus staff; Kampus Kapers; Intramural Basketball.
Charles is a big guy, with a heart to match. His ready smile and easygoing personality have won him many friends at NCE and should prove to be an asset to him in industry. He will be long remembered for his part in Kampus Kapers as "Stella."

TOBIA G. MERCURO
Pi Tau Sigma; ASME; Bureau of Publications; Co-Editor, Belt Squeals; The Nucleus staff; Intramural Basketball.
The possessor of a vast capacity for the intelligent accumulation of engineering knowledge, Toby is equally well known for his ability to express himself verbally on almost any given topic, with political and social matters his principal subjects for discussion. Toby's personable manner has endeared him to all.

CHARLES K. MANSUY
ASME; Captain, Varsity Tennis Team; Bridge Club; Ping-Pong Club; Newman Club; Model Airplane Club.
A transfer student from the Cooper Union, Ken is best known for his fine tennis ability, being a member of the 1954 NJIAC doubles championship team. Bridge, classical music, and model airplanes number high among his other interests.

... an appreciation for the fine arts...
CHARLES MOREL

ASME; Airplane Club; Intramural Basketball.

An ambitious fellow, Charlie's interest lies not only in the field of engineering but also in the building construction business. He is well known for his unlimited knowledge of constructing a house from the cellar to the chimney. There never was a more ardent lover of convertibles.

EDWARD P. PERCARPIO

Pi Delta Epsilon; ASME; Bureau of Publications; Editor, Belt Squeals; Editor, Log NCE; Features Editor, The Nucleus; The Technician Staff.

An active worker since his freshman year, Ed has given up a great deal of his time to extra-curricular activities. An excellent writer, Ed’s work has appeared in many of the school’s publications. His biggest thrill at NCE was making the Dean’s List.

GERALD NISIVOCIA

ASME; SAM; Varsity Baseball Team; Ping-Pong Club; Intramural Basketball; Bowling Team.

A man of many talents, “Nisi” has shown a fine ability for leading orchestras. He has had his own little outfit for many years now, and he was the conductor of the Kampus Kapers orchestra for two years.

LOUIS J. PAWLIKOWSKI

ASME; Class Council.

Perhaps the two most outstanding qualities which Lou possesses are friendliness and good humor. These qualities are combined to produce a personality that has ranked him among the best liked men in the class. His outside activities are supplemented by an interesting hobby of tropical fish.

FUANG PANYAJIVA

Mr. Fuang Panyajiva is a Commander in the Royal Thailand Navy. He is studying here at NCE so that he can help to modernize the curriculum at Thai Naval Academy, his Alma Mater. Fuang will long be remembered as the only student who wrote his tests in Thai.
DAVID RICHARDS
Dave has shown an outstanding perseverance which has enabled him to hold an outside position in industry while attending classes. His intellectual curiosity has opened up many new fields for him. His future holds nothing but success.

RICHARD ROEMER
ASME; Senior Class Council.
Dick is a person who is destined to success. He has both the intelligence and personality which are admired by all who know him. When given a job, Dick tackles it with sincere enthusiasm and sticks to it until it is finished.

WILLIAM RUNO
Holding down an outside job while attending classes was not easy, but Bill is an outstanding man with a drive to be admired. If determination and stick-to-it-ive-ness can bring success, then Bill is sure to succeed.

... a quest for knowledge ...
ARLINE SAYRS
Secretary, SAM; Cheerleader; Dance Club; Glee Club.

Being one of the few girls in the school is not the only reason why she is a welcome sight; Arline adds a feeling of cheerfulness to the group. Her quiet manner and pleasant personality enhance her popularity.

LAWRENCE A. SCARINZI
ASME; Model Airplane Club.

Larry is well liked by all his classmates. He enjoys many interesting hobbies such as motorcycle riding and building and flying model airplanes. His spare time is spent helping his father in his bicycle and motorcycle repair shop.

CONSTANTINE SCERBO
ASME.

Bob always has a friendly greeting for anyone meeting him. This cordiality, in addition to his seriousness of purpose as a student, makes him a person worth knowing. Bob has that little extra push, when it comes to completing a job.

HARRY F. SCHELLACK
Treasurer, ASME; President, Pi Tau Sigma; Sigma Pi, Class Council; Dance Club.

Harry is a hard worker who always thinks he has not done enough. Diversified interests such as bowling, dancing, photography, and philately are indicative of his interesting personality. His future plans include a Master's degree and a job in power plant design.

HOWARD J. SCHNITZER
Tau Beta Pi; Pi Tau Sigma; Omicron Delta Kappa; Phi Eta Sigma; ASME; President, IFC; Student Council; Bel Squeals Staff; Tau Beta Pi Freshman Award; First Annual Colton Scholarship; Radio Club.

“Straight A” Howie, President of Tau Epsilon Phi and the Interfraternity Council, hopes to become a theoretical physicist someday. Although he is exceptional in his studies, he still finds time for his many other activities. Probably his greatest asset is his remarkable memory.
STUART SCHORNSTEIN
ASME; SAM; Class of '55, Council; Secretary, Class of '55; Interfraternity Council; Student Council Representative; Technician Staff; Dance Club; Glee Club; Intramural Basketball.

Well spoken, well dressed, and well groomed, Stu presents a fine appearance. A very popular student, Stu creates a collegiate feeling wherever he goes. Stu is looking forward to his stay in the United States Air Force.

FRANK SIMMETH
ASME; Glee Club; Table Tennis Club.

Frank is best known for two subjects: ceramics and hot weld engineering. His study of ceramics is concentrated on plaster of Paris. After graduation he would like to travel abroad and see the world at the same time that he is working.

RUTH SINGLE
ASME; Secretary, Kampus Kapers; Cheerleader; Dance Club.

Usually quiet and soft-spoken, Ruth nevertheless can give a hearty yell as cheerleader. She is always willing to help and do a job well; her many positions as secretary to organizations verify her interest in extra-curricular activities.

... teamwork ...
STANLEY STACY
Stan is well known for his easy going humor; his jolly laugh has lightened many a conversation. However, there is a very serious side that goes along with his humorous one. He took special pride in doing a fine job on laboratory reports.

BURT STEIN
ASME; Class Council, Class of '55; Dance Club.
His down-to-earth humor and easy going attitude bring forth many a chuckle and make Burt well liked and very easy to get along with. He is an active member of the class and has a knack for having automobile accidents which "are not his fault."

RICHARD L. ULLINGER
ASME, Honors Option.
Richie is a quiet fellow who is looked up to by his classmates. A veteran of the Navy, he is married and has a young son, Richard, Jr. His career plans are for something in sales engineering.

JOHN M. STODDART
ASME, Secretary; Pi Tau Sigma; Section Representative, Yearbook; Belt Squeals; Honors Option.
John has had a little trouble in establishing himself as not only an outstanding student, but also as a warm and sincere personality. John's ability and fortitude, which have enabled him to perform any type of job extraordinarily well, have earned him the merit and respect of all who know him.

ROBERT W. STRUBLE
ASME; Alpha Sigma Mu; Photography Club.
Bob is a likable, soft-spoken man who saw action in the Philippines during World War II. In the Navy Bob was awarded the Distinguished Flying Cross and the Air Medal with two stars. His interests include photography, nuclear physics, aviation, and cosmic rays. The future hopes to see Bob in the field of research physics.
RICHARD WALSH
ASME; SAM; Class Council, Class of '55; Pi Kappa Phi; Vice-President, International Relations Club; Ring Committee; Basketball; Softball.

Though seemingly quiet in his ways, Dick is outstanding in his many endeavors whether scholastic or social. Dick led the M7D section to victory in the intramural basketball league during his junior year.

MICHAEL M. WEINER
ASME; Pi Tau Sigma; Table Tennis Club.

Not in this country too long, Murray has overcome the tricky English language and is an outstanding student. He was frequently seen in the Commons playing a masterful game of ping-pong or bridge.

LAWRENCE H. WEINER
ASME; Class Council Representative, Class of '55; Rocket Society; Intramural Basketball.

A spirited political debate will quickly stir Larry to action, and his verbose statements during Staff Control Conferences are remembered by all who participated with him. His school work is commendable, and he is sure to succeed.

... responsibility.
ANTHONY W. WILK
ASME; Rifle Club.
Tony's face has been familiar at all class activities and college dances. His faithfulness can be extended to his scholastic activities as well. He very rarely missed classes and has been just as consistent with his homework assignments.

DONALD WINN
ASME; President, Class of '55; Vice-President, Kampus Kapers; Treasurer, Kampus Kapers.
Wherever Don goes, he spreads a feeling of cheerfulness with his dynamic sense of humor. Besides his outstanding personality, he is endowed with a gift for leadership and public speaking. Success is in store for Don.

DONALD C. WOODNORTH
ASME; Representative, Class of '55; Nuclerus Staff; Phi Eta Sigma; Kampus Kapers.
This young fellow, a product of Millburn High School, has acquired many friends with his good sense of humor. Don intends to go into production engineering upon graduation, and if the quality of his work at NCE is any indication of his ability, we are sure he will be a success in this field.

LEONARD WODZANOWSKI
ASME; SAM; Interclub Council; Dance Club; International Relations Club; Basketball; Softball; Bowling.
Although he is quiet and modest in his way, Lenny always has something worthwhile to contribute to a discussion. His diligent and hardworking attitude in his studies will be an asset for any employer.

WILLIAM WOOD
ASME; Technician Staff; Pi Tau Sigma; President, Christian Fellowship Club.
Bill is a tall, quiet chap with the hearty laugh who is known for all the thought-provoking questions with which he puzzles the professors. He likes to think things out and hates to have to take anything for granted. The Christian Fellowship Club is one of his prime interests.
ERNEST J. ZIMPO
ASME, President; Alpha Phi Delta; Omicron Delta Kappa; Interfraternity Council; Representative, Class of '55; Ring Committee; Technician Staff; Manager, Varsity Basketball; Kampus Kapers; Honors Option.

Through his dynamic personality Ernie has managed to take an active part in extra-curricular activities and still maintain a good scholastic average. His friendliness and leadership ability have enabled him to obtain wide and valuable experience as an officer in various activities.

ARNOLD BOTTARI
While serving in the Army, Arnold was stationed at White Sands Proving Grounds in New Mexico. His future plans include a MS at NCE. Besides spending more time with his family, Arnold also intends to participate in many social interests after graduation.

SAM AVILA
Serving in Italy during World War II, Sam was connected with the 10th Mountain Division. His pleasant personality will not be forgotten by his classmates. Sam will devote more of his time to his family upon graduation.

...patience...
WILLIAM J. BROWN
Serving with the 10th Weather Squadron, Bill spent a few years in India and China. His friendliness and interesting speeches have gained him many friends. Besides devoting much of his spare time to his family, Bill still finds time to belong to the ASME and participate in other activities.

ALFRED BIRD, JR.
Along with his many interests, Al will be remembered for his brilliant scholastic record. Cheerful, friendly, and always ready to help, Al is a truly likable fellow. His good scholastic record and the ability to stick with a difficult job insure a bright future.

ROCCO R. DEL PRESTO
Another native Newarker, Rocky was married while attending night school. He is presently employed by the Curtiss Wright Corporation and plans to direct his efforts toward a career in production engineering. Rocky is a member of the ASME, and he plans to get his MS in Management Engineering.

ALBERT P. BUTVIDAS
During World War II, Al served as a lieutenant in the USNR acting in the capacity of a flight instructor. His family and his many interests occupy most of his leisure time. Al is also contributing his valuable flight experience while participating as flight instructor for the "Legion-Airs" flying club of Cliffside Park.

CARL FIGUEIREDO
Although Carl was born in Portugal, he now makes his home with his family in Newark. His sincerity and ready smile have made him a popular student during his stay at NCE. Carl spends much of his spare time playing golf and participating in other activities.
WILLIAM FARLEY
Jim served as a Captain in the Signal Corps during World War II. His interesting personality and his willingness to help others are qualities that will be remembered by his friends. Besides devoting much of his time to his family, Jim plans to obtain his MS in mechanical engineering at NCE.

HAROLD V. HARDING
Harold served in the navy during the last World War as a Lt. Commander. He looks forward to getting out of school in order to do the things which were prohibitive before. Spending more time with his family and participating in other interests are among Harold's immediate plans.

JOHN I. NIED
His willingness to help others and his cooperative attitude have made many lasting friends for John. He served with the US Air Force for three years and is at present employed by Du Pont. John devotes his spare time to his family, and while in school, he is the ASME representative.

... an active interest in world affairs ...
RAYMOND S. RYNKIEWICZ
A native of Elizabeth, Ray graduated from Thomas Jefferson High School before entering the service. "Rynk," as he is known to his friends, is employed by the Singer Manufacturing Company, and his immediate future plans include an MS in management engineering. His amiable personality will long be remembered.

PAUL R. PINKHAM, JR.
Paul is employed at the Picatinny Arsenal, and he served in the army during the last war. He will be remembered by his classmates for his many amiable qualities and for his interest in differential equations. Paul's future plans include an MS in mechanical engineering from NCE or Stevens.

ARSENI SAPORITO
A deep-thinking, likable fellow with many ambitions, Arseni plans to spend more time with his family after graduation. Among his future plans may be an MS in mechanical engineering.

JOHN W. SHEPPERD
John will always be remembered for his friendliness and readiness to help others. His personality is outshone only by his ability to tackle a problem and stick with it. This perseverance should be a great asset in the engineering profession.

WILLIAM SCHIRMER
One of the night school mechanicals, Bill was known to his fellow students for his friendly attitude, an attribute which will aid him in his future career. Bill is considering an MS in mechanical engineering after graduation. His all-around abilities will figure him success in the engineering field.
AUGUST STARK, JR.
Serving as a technical sergeant in the last war, August saw action in the European Theater. Spending more time with his family and participation in other interests will be his immediate goal upon graduation.

RICHARD P. SMITH
Although Dick was born in Philadelphia, he now makes his home with his family in New Jersey. He served with the army during World War II and is employed by the Kollsman Instrument Corporation. Dick is a member of Pi Tau Sigma and intends to follow a career in the field of optics.

ROY H. STOECKEL
Serving with the 104th Infantry Division, Roy saw action in the European Theater. He now makes his home with his family in Kearney, New Jersey. Roy intends to devote more time to his family and to other interests upon graduation.

ELIZABETH PEARCE PERRY
Although marriage and the bringing up of her two children added an increased responsibility, Betty still managed to complete her education. She hopes some day to obtain full employment when her children become older. Betty still finds time to teach Sunday School, listen to classical music, and take part in professional and social organizations.

ROBERT WILLIAMSON
Hard-working and cooperative, Bill won many friends during his stay at NCE. Although his plans after graduation are not certain, graduate work and a continuance in some phase of mechanical engineering are probably in store.
OMICRON DELTA KAPPA
Leadership

OUTSTANDING men of the future

KARL H. ZENTMAIER
### FINAL DATA LOG

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<th>CIV.</th>
<th>CHEM.</th>
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<td>23.4</td>
<td>22.1</td>
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#### Average Age (Years)

| Avg. Commuting Distance (Mi.) | 10.8 | 8.6 | 9.1 | 8.7 |

#### Mode of Commuting (%)

(a) Drive Own Car: 61.2
(b) Ride in Car: 7.7
(c) Bus: 19.9
(d) Other: 11.2

#### Marital Status (%)

(a) Single: 78.4
(b) Married: 11.6
(c) Engaged: 8.6

#### Veterans (%)

12.1

#### ROTC (%)

48.3

#### Member of A- (%)

(a) Professional Society: 88.0
(b) Social Fraternity: 27.6
(c) Honor Society: 15.5

#### Favorite Teacher

Thom Dickey Shapiro Joffe

#### Favorite Subject

HT, POWER TUBES SURV. UNIT. OR

#### Average Homework (Hours/Week)

19.5

#### Wear Glasses (%)

39.7

#### In Favor of Final Exams (%)

5.2
NON-PROFESSIONAL DEPARTMENTS
Dr. M. Lelyn Branon
Professor Thomas J. Tully
Dr. Paul Miller Giesy
Professor Frederick W. Bauder
Professor John A. Bishop
Professor Joseph M. Fitzgerald
Professor Robert G. Poetz
Professor Gerson L. Ram
Mr. Phoebus M. Cristopher
Mr. Edward W. Price
Mr. Leonard M. Salzarulo

CHEMISTRY

PHYSICS

Dr. Paul O. Hoffmann
Dr. Achille Capecelatro
Professor Charles H. Duursema
Professor Paul E. Nielsen
Dr. Irving P. Orens
Dr. Carl V. Bertsch
Dr. Thomas J. Blisard
Professor Eivind G. F. Ramberg
Professor Bernard A. Greenbaum
Professor Marcus N. Mainardi

Professor Monroe R. Weller
Mr. Jason Edward Eberhart, Jr.
Mr. David Epstein
Dr. Hans Freistadt
Mr. Bernard Kingery
Mr. Fred Sterzor
Mr. Leo Wittes
Mr. Arnold M. Gallub
Mr. Gerald Granik
Mr. Amos Kaminski
ENGINEERING DRAWING

MATHEMATICS

Dr. George C. Vedova
Professor Pompey Mainardi
Professor Carl Konove
Professor James H. Fithian
Professor Harold P. Wasson
Professor Herbert Parkan
Dr. Edgar P. Virene
Dr. Henry Zatzkis
Mr. Robert K. Haubner
Dr. Achilles E. Foster
Dr. Philip B. Norman
Dr. Edward C. Molina

Professor Francis J. Burns
Mr. Rudolph J. Klem
Professor Robert Widdop
Mr. Matthew J. Dujets
Mr. John J. Hanus
Mr. Robert G. Salamon
PERSONNEL RELATIONS

Professor Clarence H. Stephans
Professor Robert E. Kiehl
Professor Paul L. Cambreleng
Professor James W. Hicks
Mr. James L. Lubin
Miss Helen Hildebrant
Mr. Leonard Noyes
Mr. Gordon Holbrook
The Honor Societies' Council was reorganized in 1954 to perform a coordination function. Since its establishment, the group has presented the member societies with a non-conflicting schedule for meetings of the various organizations.

Another council activity is the arrangement of an Honor Societies' Dinner to be held in the spring. Such a plan permits greater attendance by society members as well as the obtaining of a more suitable location for the affair.
HONOR SOCIETIES
Membership in the Tau Beta Pi Association, national engineering honor society, marks in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as undergraduates in engineering, or by their attainment as alumni in the field of engineering.

The major activities of Tau Beta Pi include an Instructor Rating Program for faculty members requesting this rating, and a tutoring service for senior division students. In addition to these activities, Tau Beta Pi presents an award to the freshman attaining the highest scholastic average and an annual presentation of one or more non-technical books to the NCE library.

OFFICERS

President .................... William Caputo
Vice-President ............ Karl Zentmaier
Recording Secretary ... Theodore Makowski
Corresponding Secretary ... Gilbert Godwin
Cataloguer ..................... John Pochank
Advisers ...................... Professor Robert Anderson
Dr. Paul O. Hoffmann
Professor Eivind Ramberg
Professor George Thom

OMICRON DELTA KAPPA

The purpose of Omicron Delta Kappa, national leadership honor society, is threefold: to recognize men who have attained a high standard of leadership in collegiate activities; to bring together the most representative men in all phases of collegiate life; and to bring together members of the faculty and the student body of the institution on a basis of mutual interest, understanding, and helpfulness.

The society's activities for the year center about the sponsorship of two leadership conferences. The annual conference was open to all students of NCE. The Eastern Provincial Conference, held early in April, was attended by students representing nine colleges who participated in workshop discussions concerning all phases of leadership.

OFFICERS

President .................... Douglas Amos
Vice-President ............ A. Stanley Heuser
Treasurer ..................... William Caputo
Secretary .................... Professor John T. Shawcross
Adviser ...................... Dean William Hazell, Jr.

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Named after General Arnold, the Arnold Air Society is a national honorary fraternity for AFROTC cadets. Members of the group are distinguished by the wearing of a fourragere on the uniform.

The ideals of the Arnold Air Society are to further the purpose, mission, tradition, and concept of the United States Air Force as a means of national defense. To publicize its programs, the group publishes *The Cadet*, a newspaper for ROTC cadets.

At NCE, the society sponsors the top social event of the year, the Military Ball. Held in the spring of each year, this formal dance attracts not only NCE students, but also those from Newark Rutgers and Upsala College, AFROTC affiliates.

**OFFICERS**

Commanding Officer .................. John Kennedy  
Executive Officer .................... James Lawrie  
Operations Officer ................... George Parandes  
Adjutant Recorder ................... A. Stanley Heuser  
Treasurer ............................. Daniel Polis  
Adviser ............................... Major Michael A. Barry
Pi Delta Epsilon, the national honorary collegiate journalism society, was installed at NCE in 1951.

The purpose of Pi Delta Epsilon is to elevate the cause of journalism, to foster the mutual welfare of student publications, and to reward the students working on college publications for their efforts, services, and accomplishments by admission to its membership.

PI DELTA EPSILON

PHI ETA SIGMA

Phi Eta Sigma is the national fraternity honoring college men who have attained high scholastic standing in the freshman year. The local chapter recognizes high scholarship by offering membership only to those men who have attained a 3.5 average or better of a possible 4.0 in the freshman year.

Phi Eta Sigma activities include the sponsorship of a tutoring service and the conducting of the freshman orientation program.
Gamma Kappa Chapter of the Eta Kappa Nu Association, national electrical engineering society, was founded at Newark College of Engineering on May 23, 1953.

The major projects of the society are junior orientation into the Electrical Department, organization of displays for Visitor's Day, and a departmental conference for the purpose of constructive criticism of the courses and of the faculty-student relations. The chapter also encourages society initiation projects which will be useful to the Electrical Engineering Department.

Pi Tau Sigma, the National Honorary Mechanical Engineering Fraternity, was formed "to foster the high ideals of the engineering profession, to stimulate interest in coordinate departmental activities, and to promote the welfare of its members." Pi Tau Sigma originated at the University of Illinois in 1915.

The Newark Tau Theta Chapter was formally installed on May 25, 1951, with ceremonies performed by Professor Frank L. Schwartz, National President, who was assisted by Professor George B. Thom, Chairman of the Mechanical Engineering Department at NCE.

Among the activities of the fraternity since its inception at NCE have been the sponsoring of a Sophomore Technical Paper Contest and the organization of displays in the Mechanical Engineering Laboratory on Visitor's Day.
The Professional Societies' Council was organized with the purpose of providing a co-ordinating body for activities within the societies and to represent the seven member groups in the Student Council. The presidents of these organizations are the representing members on the council, and the position of Chairman of the Professional Societies' Council is rotated from year to year to the various societies so that each may serve in an advisory and representative capacity.

In the past the group has sponsored joint meetings of the societies and arranged non-conflicting meeting times. By means of this council, societies can exchange ideas, promote liaison, and solve problems of common interest.

PROFESSIONAL SOCIETIES' COUNCIL
Charles Deininger Receives Award From Westinghouse

Officials of the Westinghouse Electric Corporation presented a special award on Monday, December 21, to a student at Newark College of Engineering for suggestions he made last summer on the improvement of its testing devices which have led to the company's obtaining patent rights.

Charles R. Deininger, a junior
The aim of the NCE chapter of the American Institute of Chemical Engineers is to further the professional development of all chemical engineering graduates of NCE. This objective is realized through the showing of films on industrial processes, frequent plant trips, and guest speakers.

The primary project of the society is the sponsoring of a three day plant trip to industrial sites outside New Jersey. This plant trip, which is a requirement for the plant design course, proves of great value to the students by increasing their knowledge of the chemical industry in its entirety.

The Student Affiliate Chapter at NCE provides the students with a knowledge of professional societies, their programs and benefits. The chapter encourages active participation in local affairs as well as the North Jersey Section of Student Affiliate Chapters. Here the student may gain knowledge and poise by participating in discussions and presenting technical papers before large groups of students, faculty and professional persons.

The local chapter has sponsored plant trips to Newark industries, guest speakers, and films. The annual convention of Student Affiliate Chapters promotes exchange and development of ideas and concepts of other colleges as well as an insight of the professional world today.
The Society for the Advancement of Management is the recognized professional society for industrial engineers and managers. Through this organization students gain important information on management, and become acquainted with this field of engineering through plant visits, films, and lectures.

The student chapter coordinates its activities with those of the Northern New Jersey Chapter, which is the senior professional society in New Jersey.

The chapter will continue to offer to its members valuable assistance in the increasingly important field of industrial engineering and management.
The purpose of the IRE is to disseminate knowledge of the theory and practice of electronics, communications, and related fields of engineering and science, and to further the professional development of its members.

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

Benefits of student membership in the national organization include: subscription to *Electrical Engineering*, automatic transfer to grade of Associate Member upon graduation, and attendance at annual student conventions.

Since 1926, the student branch of the AIEE at Newark College of Engineering has successfully pursued its aim of broadening the scope of the student by introducing him to all branches of the electrical engineering field.

The purpose of the IRE is to disseminate knowledge of the theory and practice of electronics, communications, and related fields of engineering and science, and to further the professional development of its members.

The NCE branch of the IRE attempts to achieve this purpose by obtaining outstanding guest speakers to lecture to the group on topics of interest in fields related to electronics.

During 1954 a Northern New Jersey Section of the Institute of Radio Engineers was formed. Close cooperation with this parent group has proved to be of great benefit to the student branch.
Since the chapter was organized in 1931, its aim has been to mix the technical and educational aspects of engineering with the fraternal spirit and social life found on any college campus. In achieving this goal the chapter has enjoyed many noted speakers, seen films designed to focus its attention on industry’s problems, and traveled to industrial centers for numerous plant trips. Dances, parties, and the annual picnic serve as outlets for the high spirits of the members.

The chapter has also played an influential part in reorganizing the Metropolitan Conference of Student Chapters, a group composed of the eight metropolitan engineering colleges, whose main project is an annual convention.
THE ENGINEER'S OATH

As An Engineer: I have a deep, abiding respect and faith in the ideals of my chosen profession; I believe that membership in it entails the most solemn obligations—obligations that I am eager and earnest to fulfill; I believe that, as a member of this profession, I have a vital and personal responsibility to act for the benefit of mankind, to render usable nature's vast material reservoirs and her latent energies.

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

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

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

All these things I do truly believe and to these principles I solemnly commit myself.
The co-ordinating body of all student activities in the Student Council—a unique organization which until this year was composed of representatives of the professional and honor societies, fraternities, clubs, teams, classes, and publications. Through the ceaseless efforts of George Kennedy, Dean Grammer, Dr. Estrin, and Professor Swanson, the Student Council was appraised and overhauled. With a new constitution adopted and ratified, the council now consists of ten member organizations with five officers.

Represented are each of the four classes, the Athletic Association, the Inter-Fraternity Council, the Inter-Club Council, the Honor Societies’ Council, The Professional Societies’ Council, and the Bureau of Publications.

The primary function of the Student Council is to administer the student activities program, particularly with respect to the proper allocation of funds to operate the extra-curricular program.
STUDENT GOVERNMENT
We will probably go down in the history of the college as one of the most active classes ever to graduate. Aside from a social flop or two at the beginning of our freshman year, we have always had extremely good participation in all class functions. Do you recall all that rain we had on the freshman outing? It came down in torrents, but still people showed up! This was the undampened spirit that pervaded everything we did. Every social affair we engaged in was profitable and every activity we entered in was successful.

As the actions of the class pointed out the unity of the group, so the accomplishments of the individuals in the class indicated the high calibre of the members. Activities are only as strong as the men who engage in them and ours were a guide for future classes to follow.

We of the Class of '56 extend our congratulations to the Class of '55 for their successful completion of the requirements for the baccalaureate. We have enjoyed working with you in class and in council work as well as just being a "buddy." It is wrong to say good luck to you because luck cannot be trusted in our engineering fields. On the other hand, we say work hard to gain experience, for no matter how much "book learning" an individual may have, the practical application of that knowledge is through experience.

Seeing you leave gives us sort of a melancholy feeling, but yet it makes us happy too, because that means we are now seniors.
The Sophomore Class was instrumental in organizing joint freshman-sophomore social activities. Long thought to be a desirable plan, this arrangement permitted the obtaining of more exclusive locations for the numerous dances, picnics, and other class functions. The council hopes that such multiple-class functions will continue to be popular with the lower classmen as well as with the junior and senior classes.

The Freshman Class Council under the capable guidance of Dr. Estrin was organized in early October to govern the activities of the largest freshman class ever to enroll in NCE. Under the leadership of this council the activities which were set up for the year were a co-sponsored dance with the sophomore class, the Frosh Frost Frolic at which time a Frost Queen was chosen, a freshman-sophomore picnic, a New York trip, and a smoker.

The council has also exercised foresight by setting up the nucleus of those committees whose future functions are of prime importance. These committees include the constitution, the social activities, and the yearbook committees.
The primary function of the newly-formed Bureau of Publications is to encourage all students with literary or business ability to serve on the staff of one of the seven recognized college publications.

To carry out this service, the group works closely with the English Department as well as with the professional departments.

A secondary function of the council is to serve as a technical advisory board for any college group wishing to publish any paper or magazine.

BUREAU OF PUBLICATIONS
PUBLICATIONS
As the official newspaper of NCE, *The Technician* has the responsibility of presenting news of the college and its activities to the student body accurately and in an interesting manner.

In the fall of 1954, the editors reorganized the staff positions and duties in order to make it possible for freshmen and sophomores to work even more closely with juniors and seniors during their first two years. As juniors and seniors, these veterans will be in a position to employ their experience gained in “putting the newspaper to bed” to produce an even finer publication.

*THE TECHNICIAN*

**NUCLEUS**

Athanasios Argiris
Steven Basarab
Raymond Bilancia
Jerome Boden
William Caputo
Robert Chaya
Bernard Cohen
Charles Deininger
Robert Felber
Alan Finkel
Gilbert Godwin
Anthony Ivaska
David Kaiser
Martin Katz
Richard Kauneckis
John Kessler
Cynthia Kiley
Melvin Knopf
Richard Kraeuter
Maxim Levitan
Robert Livermore
Charles Manogg
Tobias Mercurio
Robert Roller
Howard Schnitzer
John Stoddart
Robert Struble
Charles Theiller
Donald Woodnorth
Joseph Yaworsky

The men listed here aided the *Nucleus* Staff to prepare this yearbook.
Belt Squeals has served as the official organ of the American Society of Mechanical Engineers student branch. The paper publicizes elections, notices of meetings, and news of general interest to ASME members. Belt Squeals also serves a coordinating function for the activities of the Mechanical Engineering Department and the ASME.

Co-Editors ................. Edward Percarpio, Tobia Mercuro
Staff ........................ John Stoddart, Edmund Caruso
Adviser ...................... Mr. Lawrence J. Schmerzler

BELT SQUEALS

THE SURVEYOR

The Surveyor is a newspaper for Civil Engineering students which leans toward the humorous point of view. Notes of construction progress on local projects are usually included as well as notices of ASCE student chapter meetings, and interviews of members of the Civil Engineering Department.

Editor .......................... Daniel Polis
Adviser ........................ Professor Richard D. Mangasarian
THE CADET

Written, published, and paid for by Arnold Air Society members, The Cadet is a publication concerned with AFROTC news. Feature articles such as interviews of the Detachment staff, stories of military experiences, and shoulder-to-shoulder talks by the PAST are also an integral part of The Cadet.

STAFF
Daniel Polis
Edward Percarpio
Adviser
Major Michael A. Barry

ET CETERA

Et Cetera, a magazine written and published by the students of NCE, provides a pleasant diversion from tedious scholastic activities. This annual publication affords the student an opportunity to exhibit his literary ability.

STAFF
Sophie Kobylarz
Benjamin Fessler
Adviser
Dr. Herman A. Estrin

LOG NCE

Log NCE is a handbook published for the students of NCE and is presented to each of the incoming freshmen with the purpose of familiarizing them with the various functions and activities of the college.

STAFF
Herbert Moskowitz
Seymour Moskowitz
Elliot Kleiman
Edward Percarpio
Advisers
Dr. Herman A. Estrin
Mr. Richard D. Blanchard
The Inter-Club Council provides a means of coordination between the activities of the many college clubs. The council has organized a "Club Day" which is conducted at the beginning of the college year at which time all clubs have representatives present in the Commons to answer any questions that new students may have pertaining to clubs. The group also establishes a non-conflicting club meeting schedule as well as insuring that each club presents a display for Visitor's Day.
CLUBS
Since its inception in the fall of 1953, Alpha Phi Omega has stood for service to the college. This national service fraternity has grown rapidly to its present membership of thirty men. Its many services have included ushering at the Newark Science Fair and at Kampus Kapers, and obtaining tickets for radio and television broadcasts and theater shows for NCE students. APO operates a used book exchange in the Student Services Booth which has proved to be a great success, and is sponsoring an “Ugly Man Contest” to raise funds to provide a student lounge in Eberhardt Hall.

**ALPHA PHI OMEGA**

**BRIDGE CLUB**

The Bridge Club sponsors many “Night of Bridge” meetings under the authorization of the American Contract Bridge League. It also participates in several inter-collegiate matches and in the National Inter-Collegiate Bridge Tournament.

Under the guidance of its three capable officers, the Bridge Club conducts classes for those who are interested in learning the techniques of the game. By so doing, they may become capable of participating in the many tournaments throughout the school year or merely obtain the satisfaction of partaking in “a few hands of bridge” during their free time.

**OFFICERS**

President  
Richard S. Ringer

1st Vice-President  
Edward Stumpfl

2nd Vice-President  
John Drennen

Treasurer  
Vincent Ingato

Corresponding Secretary  
Philip Helmer

Recording Secretary  
Edward Knudsen

Historian  
Franklin Wilson

Adviser  
Professor Robert F. Swanson

---

**OFFICERS**

President  
Lev Blonarovsky

Vice-President  
Lawrence Lerner

Secretary-Treasurer  
Robert Hesse

Adviser  
Professor Warren H. Crater
The Chess Club provides entertainment and diversion from study for a great many NCE students through periodically scheduled tournaments and intramural matches. It also organizes exhibition games at which a prominent chess player engages twelve or more opponents simultaneously.

NCE is represented by the Chess Club varsity team on both the national and intercollegiate levels. Recently, NCE was represented at the National Intercollegiate Tournament and placed ninth in competition with forty other colleges. In intercollegiate competition with neighboring colleges, the team has maintained an eighty percent winning average.

**CHESS CLUB**

The Christian Fellowship promotes the spiritual growth of its members and upholds Christianity in a college environment. Affiliated with the Inter-Varsity Fellowship, the members of the NCE group meet twice each week to discuss the Bible, emphasis being placed on the study of the Scriptures. Highlighting these meetings are guest speakers, both pastors and businessmen.

This year, the Newark chapter has taken the initiative in instituting a state-wide association of Christian Fellowship chapters, which will hold two conferences each year to exchange ideas on topics of the day and to promote brotherhood.

**CHRISTIAN FELLOWSHIP**

**OFFICERS**

President ........................................... William Wood
Vice-President ................................. Edward Knudsen
Treasurer and Secretary ................. Leo Thomas
Adviser ........................................... Professor Frederick G. Lehman

**OFFICERS**

President ........................................... Stephen Kosonowsky
Vice-President ................................. Robert Dobley
Secretary-Treasurer .......................... Eugene Zmyj
Corresponding Secretary ................. Alexander Jordan
Adviser ........................................... Mr. Rudolph J. Klem
The Dance Club of 1954-1955 not only is the largest club at NCE, but also one of the most recreational and instructional. The club offers dance lessons every week in the popular ballroom dances of the day. Meeting every Friday night, the club dances to recorded music or on special occasions to the music of a local band. The club also plans a picnic which is held in the spring.

OFFICERS

President .......... Peter Macchi
Vice-President .... Mimi Bernstein
Secretary-Treasurer .... Michael Mokrzycki
Adviser ............ Professor Robert F. Swanson

GLEE CLUB

The Glee Club, under the direction of Professor Fernsler, has provided the college with many entertaining musical programs. The club, which rehearses one hour each week, selects songs in such a manner as to maintain the true style of glee club singing.

Two years ago, the club initiated a Christmas Concert with the hope that it might become a tradition at NCE. The enthusiasm with which it was received has assured its becoming a custom. The Glee Club also participates in the Visitor’s Day program by providing concerts during the day for the entertainment of students and visitors.

OFFICERS

President .......... Benjamin Fessler
Vice-President .... Anthony Fuschetto
Secretary-Treasurer .... Robert Brown
Adviser ............ Professor Frederick P. Fernsler
The Golf Club is open to any NCE student, whether a beginner or an experienced golfer. Future plans of the club may lead to the establishment of an NCE golf team.

Among the numerous activities of the club are the outings held throughout the year, and intercollegiate matches on a non-competitive basis. The highlight of the year is the Annual NCE Golf Tournament. This event is held on the Monday following Visitor's Day. It is open to any member of the college and has two champions: lowest gross score, and lowest net score.

GOLF CLUB

INTERNATIONAL RELATIONS CLUB

The general purpose of the International Relations Club is to focus attention on international affairs, and work for a better understanding of the function on international affairs and work received from the Carnegie Endowment for International Peace supplies the discussion group with information about pertinent topics of international interest which are discussed at semi-monthly meetings.

The members of the club have attended conferences of the American Association of International Relations Clubs, the past meeting being held at Princeton University, at which the topic of discussion was the review and revision of the UN Charter.

OFFICERS
President ............................................. Alfred Kirsche
Secretary ............................................ Donald Meyler

OFFICERS
President ............................................. James Smith
Vice-President ..................................... Richard Walsh
Secretary-Treasurer ............................... David Cventzel
Adviser .............................................. Professor Nelson C. Keables
The Kampus Kapers Club has maintained a tradition of fine performances since its initial offering in 1952. This first production was an almost spontaneous outpouring of fun and frolic which came as a welcome change from class smokers.

When college resumed in September, the officers took up the task of determining the theme of this year's show. After much debate and a preliminary audition, the club decided to produce a complete musical comedy.

With a much bigger membership and a much stronger organization, the Kampus Kapers Club confidently expects "Good News" to be their finest production.

**Kampus Kapers**

**NEWMAN CLUB**

The Newman Club at NCE was organized for the enrichment of the spiritual and temporal lives of Catholic students. This aim is achieved through a program of religious and intellectual activity. Among its functions are lectures by priests and the showing of films. Broad fields brought under discussion have in the past included such subjects as philosophy, evolution of man, and Newmanism itself.

**OFFICERS**

**Kampus Kapers**

President: Donald Winn
Vice-President: Lionel Sirois
Treasurer: William Cawthra
Secretary: Ruth Single
Advisers: Professor Edward F. Johnson
Professor Robert F. Swanson

**NEWMAN CLUB**

President: Richard Pinto
Vice-President: William Toye
Treasurer: Edward McKeon
Recording Secretary: James Wasdyke
Corresponding Secretary: Joseph Masterson
Adviser: Professor Francis Burns
The Photography Club enables the novice and advanced photo enthusiast to exchange knowledge and improve photographic skills. Club meetings provide an opportunity to discuss lighting, composition, development, special techniques, and other phases of the art. At photo sessions the members learn portraiture with models, while field trips provide opportunities to photograph unusual subjects and learn outdoor techniques. Work of the members and club contest prize winning entries are prominently displayed in Weston Hall. An orientation motion picture of the college for freshmen is in progress as is construction of a darkroom for the recently acquired enlarger.

PHOTOGRAPHY CLUB

RADIO CLUB

The Radio Club was organized at NCE to provide diversion for amateur radio operators and other students who are interested in radio communication techniques and equipment. The club has instituted regular classes for students desiring to learn the code used in long and short range communication.

Contacts with amateur radio operators as far away as Puerto Rico and Texas have been obtained. With the aid of a new and more powerful transmitter recently acquired, it is expected that contacts with stations as far away as California and England will become a regular occurrence.

OFFICERS

PHOTOGRAPHY CLUB

President ........................................ Philip J. Lippman
Vice-President ................................... John Kozma
Treasurer ........................................... Joseph Pacchia
Secretary ........................................ Fred Lawrence
Adviser ........................................... Professor Robert H. Rose

RADIO CLUB

President ......................................... Alan Finkel
Secretary-Treasurer ............................... John Antonacos
Chief Operator ................................ Donald Gritzmercher
Adviser ........................................ Dr. Frederick A. Russell

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The Rod and Gun Club was formed in 1951 to replace the Fishing Club in order to accommodate those students also interested in hunting.

Each year the club has successfully presented a well-rounded schedule of sporting and social activities to its members, including numerous hunting and fishing trips, and an annual venison dinner-dance. However, the mid-winter deep-sea fishing trips out of New York ports proved the downfall of many an NCE landlubber.

ROD AND GUN CLUB

The Ski Club brings the joy of skiing to many students previously unfamiliar with the sport. The club offers free ski lessons to new members and provides students who are unable to afford skis the use of club skis.

Winter plans include a one week ski trip and as many day and weekend trips as snow conditions permit.

The veteran skiers enjoy the thrill of group skiing in close formation, cross-country ski jaunts, and competition skiing.

OFFICERS

President............................................. Thomas Van Orden
Vice-President..................................... John Kennedy
Treasurer.............................................. Attilio Badala
Recording Secretary............................ George Tkach
Corresponding Secretary....................... Anthony Graham
Adviser.................................................. Professor Robert G. Poetz

SKI CLUB

OFFICERS

President............................................. Michael Mokrzycki
Vice-President..................................... Raymond Clapp
Treasurer.............................................. Roy Pibermann
Recording Secretary............................ Charles Lombardi
Corresponding Secretary....................... David Robertson
Adviser.................................................. Professor Jerome L. Polaner
Although the ball spends as much of its time bouncing down the stairs of Weston Hall as it does on the ping-pong table, the members of the Table Tennis Club are never discouraged. An invitation to play is always open to non-member students.

Club members play in New Jersey State Collegiate and National Collegiate tournaments against many of the college teams in the greater Newark area.

**TABLE TENNIS CLUB**

**YACHT CLUB**

The Yacht Club is an active member of the NCE Athletic Association. The club holds two or three sailing outings each year. Large rocket class boats are rented from an establishment in Lavallette for all-day cruises on Barnegat Bay.

The club hopes that the future purchase of a racing class boat will permit intercollegiate races.

**OFFICERS**

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<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Commodore</td>
<td>John Progelhof</td>
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<tr>
<td>Vice-Commodore</td>
<td>Richard Pinto</td>
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<tr>
<td>Treasurer</td>
<td>Philip Lippmann</td>
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<tr>
<td>Adviser</td>
<td>Professor Robert F. Swanson</td>
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**OFFICERS**

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<tr>
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<td>John Alai</td>
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<tr>
<td>Adviser</td>
<td>Mr. David H. Mangnall</td>
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</tbody>
</table>
The Interfraternity Council is the governing body of the six social fraternities at NCE. The Council, composed of two representatives from each fraternity, meets bi-monthly to decide questions of common interest and fraternity policy.

Among the many IFC activities is the Freshman Blowout held early in the fall semester. This year was the first time the event was held in Branch Brook Park. The purpose of this affair is threefold: to introduce the freshmen to their classmates, to introduce them to the social activities of NCE, and to enable them to become acquainted with the advantages of fraternity life.

INTERFRATERNITY COUNCIL
FRATERNITIES
The goal of the Beta Xi Chapter of Alpha Phi Delta is to increase the meaning of fraternalism among its members through active participation in collegiate as well as fraternal affairs.

The chapter's annual social affairs include a fall dinner dance, a barn dance, a spring dance, and an alumni banquet. In intramural sports, the fraternity basketball and bowling teams are leading contenders in their respective leagues.

The pride of the chapter is its new fraternity house, and the members are determined to advance the prestige of their college and organization by increasing their scholastic, religious, and civic standards.

In 1954, Alpha Sigma Mu, a social fraternity for veterans, was established at NCE. The new organization has had so many applications that membership had to be closed when it reached a record high of seventy-one members.

Alpha Sigma Mu (from the Greek words standing for veterans, comrades, engineers) came into being through the efforts and interests of a group of sophomore veterans. It was recognized that other colleges have veterans' organizations on their campuses and that NCE, campus or not, should be no exception. The organization was formed to familiarize veterans with collegiate life, to provide a social organization for veterans, and to provide a means of discussing legislation and judicial decisions affecting the lives of veterans in college.
Although one of NCE's youngest fraternities, Phi Beta Tau has made a name for itself through its enthusiastic support of college activities and the scholastic achievement of its members. The members of Phi Beta Tau have always been active in extra-curricular activities and hold offices in such school functions as the Student Council, Class Councils, Nucleus Staff, Social Committees, and athletic teams.

One of the main policies of the fraternity is the principle of religious and social equality which has proven a valuable asset to Phi Beta Tau.

The Beta Alpha Chapter of Pi Kappa Phi is one of the leading social fraternities on the campus. The yearly functions include the Rose Ball, a Founder's Day Dinner, a Square Dance, and other informal dances and house parties. Each year it presents to the sophomore with the most outstanding scholastic ability a key to signify his accomplishment.

Pi Kappa Phi ranks twentieth in size among the fifty-nine fraternities in the National Interfraternity Conference, although it is one of its youngest members. Its brothers have always been active in extra-curricular activities, participating in the student government, class councils, publications, intramural and varsity sports.
Alpha Mu is the local chapter of Sigma Pi at Newark College of Engineering. The national fraternity includes over fifty active chapters.

The primary aim of Sigma Pi has always been to stimulate an interest in collegiate social affairs. To further this aim, the fraternity sponsors several activities each year. The Orchid Ball, a formal dance named after the fraternity flower, is an annual activity, as are the Founder's Day Banquet held in February, and the Spring Dance, which is held in May. Throughout the year, the brothers of Sigma Pi gather for evenings of dancing and entertainment at the fraternity house.

Sigma Pi is an active member of the Interfraternity Council in its program of encouraging competition in sports and scholastic excellence.

The primary aim of Tau Delta Phi has always been the promotion of democratic ideals. Since its organization in 1947, the fraternity has endeavored to impart the concept of social organization to people from many cultural backgrounds. It is partly this attitude which has made the Tau Delts a well-rounded group.

The fraternity members are active in many college activities. Intramural basketball and bowling are also enthusiastically supported by Tau Delt teams. Throughout the year, the fraternity holds numerous house parties and dances.
TAU EPSILON PHI

Phi Delta Mu, a local fraternity of long standing, was installed as the Tau Psi Chapter of Tau Epsilon Phi on September 25, 1947. The national organization dates back to 1910 when the first chapter was founded at Columbia University on the principles of friendship, chivalry, and service. There are now over fifty-five active chapters in the United States and Canada.

The NCE chapter has a varied social calendar which includes a New Year's Party, Spring Dance, and an annual outing. During the summer, the fraternity rents a bungalow at Budd Lake. Parties and smokers keep the brothers busy during the balance of the college year.

OFFICERS

Chancellor .......................... Howard Schnitzer
Vice-Chancellor ..................... Lawrence Gerber
Recording Secretary ................ Arnold Green
Corresponding Secretary .......... Harold Weinstein
Historian ........................... Lawrence Lerner
Chaplain ............................ Bernard Garfinkle
Warden .............................. Lawrence Barsher
LOCATED AT...

SIGMA PI
332 High Street

ALPHA PHI DELTA
197 New Street

ALPHA SIGMA MU
375 High Street

PI KAPPA PHI
167 Warren Street

TAU DELTA PHI
101 Summit Street

TAU EPSILON PHI
142 Warren Street

PHI BETA TAU
117 Warren Street
The purpose of the Athletic Association is to stimulate all athletic endeavors at the college through a system of varsity, intramural, and club activities. Encouragement to enter intercollegiate competition which fosters good will and sportsmanship between NCE and neighboring colleges is an important function of the group. The Association is comprised of a representative from each member organization and is supported solely by funds received from the Student Council.

ATHLETIC ASSOCIATION
SPORTS
The 1954 baseball season was not the most successful in the history of the sport at the College, but the season was marked by a series of tight games. The 1955 season will see the debut of a new coach, Professor Fitzgerald, who will attempt to gather all the forces in baseball and focus them against the lack of practice opportunities in an effort to produce a successful season.

BASEBALL SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent</th>
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<tbody>
<tr>
<td>Apr. 12</td>
<td>Paterson State</td>
</tr>
<tr>
<td>13</td>
<td>Drew University</td>
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<tr>
<td>14</td>
<td>National Aggies</td>
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<td>16</td>
<td>Stevens Institute</td>
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<td>May 7</td>
<td>Stevens Institute</td>
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<td>14</td>
<td>Montclair State</td>
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<td>May 21</td>
<td>Panzer College</td>
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<tr>
<td>Apr. 23</td>
<td>Bloomfield College</td>
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<tr>
<td>30</td>
<td>Newark State</td>
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</tbody>
</table>

COACH—Joseph Fitzgerald
Manager—William Ollenschleger
Although pre-season estimates by Coach Bauder were typically conservative, the 1954-55 basketball squad was exceedingly uncooperative in the convincing manner in which they disposed of several hot-shot teams, and turned a tough schedule into a winning season.

Seniors Dick Homan and Bill Kindzierski were steady contributors to the ninety-point machine which erupted once to score a record 120 points against Bloomfield College. Win or lose, this was a season of nip-and-tuck games and tuck-and-nip post mortems at Saturday night establishments.

The junior varsity team, under the direction of Coach Joseph Fitzgerald, sported a 13 game winning streak before losing to Panzer College team at mid-season.

**BASKETBALL SCHEDULE**

<table>
<thead>
<tr>
<th>Dec. 14</th>
<th>Paterson State</th>
<th>Feb. 4</th>
<th>Jersey City State</th>
</tr>
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<td>11</td>
<td>Drew University</td>
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<td>Panzer College</td>
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<td>18</td>
<td>Montclair State</td>
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<td>Newark Rutgers</td>
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<td>Jan. 7</td>
<td>Montclair State</td>
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<td>Rider College</td>
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<td>Newark State</td>
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<td>Feb. 1</td>
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<td>Rider College</td>
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Mar. 5 Stevens Institute
With the graduation of the class of 1954 went four of the mainstays of the fencing team for the past few seasons. Under the guidance of Coach Paul Hausser, the fencing squad was rebuilt mostly around sophomores. Dan Polis, Captain and only senior on the squad, led the foil team. Brothers Otto and Eberhard Nordman, two of the three returning lettermen, led the sabre and epee teams, respectively. Much is expected from sophomores Ron Nicholls, Robert Bowser, Elio Prince, and Ronald Michel. Juniors George Fecher, John Alai, and Marius Weinreb will round out the team and contribute much to maintain the fine record established by previous teams of the Red and White. The NCE swordsmen are seeking their seventh tournament triumph in the spring of 1955.

Playing against strong, well-drilled opposition, the soccer team once again completed a successful season, scoring sixteen goals while giving up only ten to their opponents.

The limitations imposed by insufficient practice opportunities struck heavily at attempts to coordinate the offensive unit, led by Co-Captain Andy Latawiec. The supporting role to the attack was a sharply productive and exceptionally dependable defense, conducted in part by Co-Captain Jon Ross, NCE iron man, and amply protected by goalee Ben Hajduczok.
**BOWLING**

The NCE Bowling Team, composed of leading bowlers in the Intramural Bowling League, decided upon a radical departure from the NJIAC this year, and their activity has placed them among the top three teams in the fourteen colleges in the Eastern Intercollegiate Bowling Conference.

Armand Fuirarello, Varsity Director, and Orin Sharpe, Intramural Director, have keenly organized the competitive bowling desire and have diverted into suitable channels the various levels of bowling ability for higher competition.

**TENNIS**

With the inspired leadership of Coach Fithian and a proficient group of tennis players, the 1954 season set a mark in tennis which this year's squad will find difficult to duplicate. The doubles teams of Mansuy and MacLaughlin, Macchi and Marv Smith were outstanding. Senior Ken Mansuy will remain this year to complete four years of varsity performance.

**TRACK**

Training rigors and academic necessities exacted a toll among the Harriers this year, and although the survivors strove valiantly to duplicate the successes of last season, too many opponents crossed the finish line.

Captains Rudy Oehm and Jim Morgan found themselves in the tidy position of placing among the leaders in all cross-country meets, but with insufficient reserve strength to gather team honors.
INTRAMURALS
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OUR FINAL HOUR

Our final hour is that time when seemingly insignificant things pop into your mind and leave a lasting impression. Those last few weeks when you worked all the harder, in a strange sort of desperation, half of you trying to study, the other half trying to hold on to something. It is the time when you realize suddenly, that this is it: the end, the beginning, the untried.

It's that time when you look back to those first days of college. Years ago, it seems, yet only yesterday as measured by some eternal yardstick. The same faces around you, less those who didn't quite make it. The faces are a little older now, a little more thoughtful, a little more searching. You are soon to be one of that mythical breed, alumni. Mythical, because as freshmen there was suspicion as to whether anyone actually did graduate. Yet here you are, impossible though it may seem.

It's that time when you squirm in your seat, which now even seems more uncomfortable than those execrable drawing stools. The speakers drone on and on. You try to get some meaning out of their words. You know the meanings cannot be fully expressed in such intangibles as words.

It's that time when you walked down Warren or New Streets in the late afternoon which sometimes stretched much later. You became used to eating supper alone, just as you became used to eating lunch with a few hundred others. You remember the quick glance you gave the milk line before falling in at the rear of it.

You glance around the auditorium over many proud, happy people. You realize this is a big moment for more people than just the graduates. Your name is called. You rise and walk to the distinguished man who seems tired and worn. A brief handshake, a few mumbled words, and it's finally in your hand. You try to reply, but another name has already been called, and someone else rises shakily to his feet. You walk back and sit down. Your classmates pump your hand and soon you are your old self again.

It's later when the thought comes back to you—now what? What comes next? Will you succeed in your work? But then, do you know what success is? This old question sounds down through the centuries and still echoes back unanswered.

But suddenly you think, no, you are sure, you have the answer.

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