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.
"Lo! You Have Burned the Midnight Oil."

... BURNS
PRESENTING THE

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OF ENGINEERING
NEWARK, NEW JERSEY
Foreword

The purpose of this book is to perpetuate the class of 1950 in the memories and hearts of the class itself. If the book, despite its shortcomings, succeeds in fulfilling these objectives, we will feel that our efforts have been fully rewarded.

Much credit is due to those members of the staff who worked diligently and contributed immeasurably to the success of the publication and to whom adequate recognition could not possibly be given.

THE EDITORS
To the Members of the Class of 1950,

Four years ago, both you and I entered the College as "freshmen". Each year, as your faculty adviser, I also became a "sophomore", "junior", and "senior" again.

Through our academic and social education we became a "family". In our theme-writing, speech, and history classes we were able to verbalize and crystallize our philosophies, hopes, and aspirations. During these periods we shared our varied experiences. With these contacts we became richer because of the close kinship and cooperation that developed. However, commencement exercises launch you on your careers, and with reluctance I leave the friends whom I knew so cordially at the Freshman Dance, the Sophomore Hop, the Junior Prom, the Smokers, the picnics, the Senior Informal Dance, and the New York Trips.

After each social event our class became more closely knit, as evidenced in the many spontaneous informal gatherings. This feeling of friendship and fellowship permeated the entire class to make it a "family circle". It was indeed a pleasure to become acquainted with your sweethearts, wives, children, and other members of your families whom I was glad to meet at our class functions.

As members of this class, you have surely participated markedly in the extracurricular program of the College and the class. Each of you shared in the conduct of our "community". After you leave NCE, it is my hope and desire that you continue to be active in the social, civic, and political affairs of your respective communities. As graduate engineers, you have much to offer to the public welfare of your town. Citizens will look to you for your professional and civic advice and guidance. Give them the best of your knowledge, training, and experience.

Sincerely I wish you success, happiness, and prosperity for the future.

[Signature]

Herman A. Estrin
Professor
Harold E. Walter
Dedication

All of us have lost a friend—

Professor Walter's untimely death in July, 1949, cut short a brilliant and varied career.

He served with honor and distinction as a naval officer assigned to submarine service in World War I and served in special capacities as trainer and adviser to the Armed Forces in World War II.

Professor Walter received degrees from three universities and was an assistant professor at the University of Pennsylvania before entering industry.

In the field he attained the position of chief chemist and district sales manager with the Hudson Coal Company of Pennsylvania. During his tenure at the college he served as consultant to many firms in the vicinity.

His active interest in all phases of engineering and education was evidenced by his membership in The American Society of Engineering, Education, American Society of Mechanical Engineers, Sigma Tau, Sigma Pi Sigma, and Tau Beta Pi.

Professor Walter’s rare combination of educational, industrial, and pedagogical experience made him especially fitted for his duties at NCE. As a classroom teacher, he was without peer. Under his chairmanship the Mechanical Engineering Department rose to be one of the largest and best integrated in the East. His wealth of practical experience and personal analysis made him invaluable as a counselor. At informal gatherings his spontaneity and booming basso voice were much-sought-after assets.

Professor Walter had many talents which were called upon by many different groups. However, he was foremost a humanitarian; his innate sincerity, vast understanding, and sympathetic insight were so unique that our greatest loss was that of his friendship.

... to Professor Walter
Robert W. Van Houten

President of Newark College of Engineering
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SENIOR CLASS COUNCIL
Now that our four years together have ended, we can think a little more kindly of all our trials and tribulations because our memories include so many good times—and our class did have good times.

Remember 'way back in our freshman year? Arnie Katz was president; Paul Burns, vice president; Ray Armstrong, treasurer; and Honey Wolf, secretary. With our very first affair we introduced to NCE a new high in social life. Miles of crepe paper and delicious homemade punch helped create a warm comradeship that made our dance a success. The members of the Dance Committee recall, no doubt, how the excess punch was disposed of at a very gay party the following weekend. During that first year the Council succeeded in drawing up a Class Constitution which passed the approval of Dean Hazell. Then, before we realized it our freshman year was gone, and we were enjoying a much needed vacation.

With renewed vitality, we, now the sophomores of NCE, rushed into a crowded program of study and activity. Under the new direction of Merv Seeley, president; Lenny Hollander, vice president; Arnie Katz, treasurer; and Honey Wolf still secretary, the Council voted unanimously to install Professor Estrin as our Class Adviser. Thus, well advised, we surpassed our previous accomplishments with a dance at the Crystal Lake Casino. Were you lucky enough to get a ticket? (Remember how scarce they were?) And remember how the boys from one of the sections had reserved one table and spent the evening laughing and singing together? This excitement had just about died down when the long-planned Class Day in New York was on hand. What an outing. The "works"
included a choice of radio broadcasts in the morning, lunch, a Broadway show, (some few even got to see "Mr. Roberts"), dinner, and more radio broadcasts. Professor Estrin advised the married boys to try and improve their finances on the "Mrs. Goes A-Shopping" broadcast. Those who attended the International Harvester program had a real treat. Class enthusiasm was evident when we held our first smoker. There was standing room only to watch Bill Sackman launched on his career as an emcee. That was the time Ray Blum talked about the Olympic games, Messrs. Port and Mr. Schrenzel sang a duet that brought a shower of pennies from the audience, and Coach Bauder performed on the piano. Every lull was filled with some sort of a laugh. The Spring Dance at the Four Towers in May was the perfect ending to a fun-packed year. Did you take part in that crazy hat dance? Bet you never realized that balloon-blowing contests and ice-cream eating contests could produce such hilarity among engineering students. Remember the girl crowned May Queen at the dance? Our sophomore year was over all too quickly.

Sections were shuffled as we entered our junior year and our respective professional departments. Three of the four departments were represented in the Executive Council since Merv Seeley, reelected president, was a Civil; Nick Albanes, vice president, was an Electrical; Lenny Hollander, treasurer, was a Chemical; and Honey Wolf, re-reelected secretary, was a Civil. Despite the increased burden of study in our junior year, the social whirl continued. Most of you enjoyed the smoker held early in the year, emceed by Sackman (especially the pictorial characterization of certain well-known NCE faculty and administration members). And, then, remember the Thanksgiving Dance at the Meadowbrook? Alvino Rey and his band, the NCE banner prominently displayed, and our dance announced over a coast-to-coast radio hookup. What a night. That year there were more serious matters to be considered, also. Plans were begun for
the yearbook, and we won a battle to have design of the school ring improved. Worthwhile improvement, wasn't it? With our noses deep in books we scarcely noticed how the time flew by until the first class formal, the Junior Prom. How regal it felt to drive up the circular driveway to the pillared entrance of the Montclair Golf Club. I bet that your girl friend fully enjoyed being able to make a grand entrance down the carpeted stairway from the powder room. It was a perfect Prom setting, and the attendance was remarkable. Special rates for renting tuxedos, special rates for buying flowers, and special share-the-ride arrangements put the affair within everyone's reach. Since the Class Day in New York had been so successful the previous year, we repeated the affair in our junior year. With another smoker and a rousing picnic in which a barrel of beer was reluctantly jettisoned, our third year was ended.

Then we were seniors. We started in September with our plans for smokers, picnics, Class Day, and the Senior Ball, looking forward to the approaching end of our college days. Remember our Senior Smoker with Jack Dempsey's patter and songs of the "old sod", the quartet of faculty barbers, and the sombreroed, whirpocking session of "Mule Train" by Mr. Port and Professor Olsen. Bringing down the house with wild acclaim were also the impressionistic "typical classroom scenes". Then there were the Nucleus Staff meetings, begun over the summer, where not only problems concerning the yearbook were thrashed out but also enough witty and trenchant remarks were passed to fill three satirical novels, and remember those adjournments to Fucci's or Bebs. Worrying about jobs and getting reports in on time, we hardly noticed how the year ended. There was Class Day when we received our yearbooks, and then the Senior Ball, where we managed to forget our slide rules and enjoy ourselves. A week later graduation. What a night, receiving our degrees and saying our goodbyes, we brought our college days to an end but not our memories. They'll linger.
Being the graduating class of 1950, we conducted this survey to show our likes, dislikes, philosophies, and thoughts. We are a unique class not only because we have graduated at the midpoint of the twentieth century, but also because we are the largest in number of students, the largest in number of married students, the largest in number of veterans, and the most traveled group. We hope that this yearbook will reflect this uniqueness and will show the Engineer of 1950.
3. Marital Status

Married—30.3%
Not Married—69.7%

4. Have Children (Married)

Yes—26.6%
No—73.4%

5. Offices in College Organizations

Did Hold—24.6%
Did Not Hold—75.4%

6. Service in Armed Forces

Yes—76.0%
No—24%

7. College Education of Parents

Father and Mother Attended—3.25%
Father Did, Mother Did Not—10.5%
Mother Did, Father Did Not—4.5%
Neither Parent Attended—81.75%

8. Grades During College Term
Extracurricular Activities Engaged In...

Varsity Sports—5.0%
Other Sports—25.8%
Professional Societies—62.2%
College Paper—15.0%
Fraternities—20.0%
College Politics—26.4%
Honor Societies—78.7%
Clubs, Others—14.5%

Cultural Interests...

Top 10 Books
- Mister Roberts
- The Naked and the Dead
- The Robe
- Tales of the South Pacific
- Best of Science Fiction
- Crusade in Europe
- Peace of Mind
- The Fountainhead
- The Moneyman
- No Place to Hide

Top 10 Plays
- Mister Roberts
- A Street Car Named Desire
- Born Yesterday
- Harvey
- High Button Shoes
- Kiss Me, Kate
- Annie Get Your Gun
- As the Girls Go
- Where's Charley?
- South Pacific

Top 10 Motion Pictures
- Lost Boundaries
- Rope of Sand
- Paisan
- I Was A Male War Bride
- Top O' The Morning
- The Stratton Story
- Mighty Joe Young
- Champion
- The Connecticut Yankee
- The Barkleys of Broadway

Top 10 Magazines
- Life
- Reader's Digest
- Saturday Evening Post
- Mechanical Engineering
- Time
- Chemical & Engineering News
- Popular Science
- Look
- Collier's
- Coronet
Attitudes...

1. Religion has little to offer intelligent, scientific people today.

2. Democracy depends fundamentally on the existence of free business enterprise.

3. We are not likely to have lasting peace until the U. S. and its allies are stronger than all the other countries.

4. If we lower our tariffs to permit more foreign goods in this country, we will lower our standard of living.

5. Deep ideological differences between countries are irreconcilable.

6. Most children, these days, need more discipline.

7. A person in a skilled trade is worth as much to society as one in a profession.

8. There are many worthwhile and important concepts which cannot be proved scientifically.

9. The harnessing of atomic energy will bring about fundamental changes in our economic and social order.

10. The government should promote and subsidize research in all sciences.
Deviation from the Mean

Did Most for the Class
MERVIL SEELEY

Most Popular
CHARLES WRIGHT
Most Dependable
ROBERT ROSS

Wittiest
ROBERT POTTER

Hardest Worker
ANGELINA HALAMANDARIS
Most Professional
ROBERT ROSS

Most Athletic
RAY BLUM

Most Collegiate
DON ROBERTSON

Most Professional
ROBERT ROSS
Class Pessimist
WALTER BUY

Class Optimist
ROBERT LAWIT
Junior Class Officers

President . . . . . . VINCENT PURCELL
Vice President . . . ANTHONY MUSTILLO
Treasurer . . . . . . HARRY BIGUS

Recording Secretary . . . DWAYNE McGAUHEY
Corresponding Secretary . . . GEORGE LEWIS

"Coffee during lab periods."
"The Wolf Pack."
The Class of 1951 continued to support its "babies"—the baseball team, coached by Mr. Edward Johnson, and the Dance Club, supervised by Mr. Robert Swanson. In November the first social event was the Junior Informal given at Frank Dailey's Ivanhoe. Highlighting this event was the presentation of a dozen orchid corsages to the young ladies whose chairs had pink ribbons.

The social affair of the year was the Junior Prom held at the elegant Maplewood Country Club. To see the faculty and the administration jitterbug at this distinguished formal was a never-to-be-forgotten sight.

In his usual inimitable form Joe Fierstein again emceed the Smoker on March 17. Hilarity, satire, ridicule, and histrionics on the part of the faculty and the students reigned supreme that evening.

Class Day in New York was spent on April 12 by the Juniors' attending Mr. Roberts, Detective Story, Kiss Me, Kate, Where's Charley?, and Texas Li'l Darlin'. In the evening the groups ate at the various foreign restaurants—French, German, Italian, Russian, and Greek—trying "something different" in foods. Plans for the Senior Year are already underway. The Ring Committee is busy looking for models and a staff has been chosen for the Nucleus of 1951.
Sophomore Class Officers

President . . . . . . . EDWARD REHLING
Vice President . . . . . DONALD AUSTIN
Secretary . . . . . . . WARREN HASHAGEN
Treasurer . . . . . . . HENRY DESCH

Our class this year has reached its end,
With memories fond we e'er shall tend;
The smokers where we laughed so loud,
The dances where we joined the crowd,
Good times like these will always be,
Among the halls of NCE.

Our president this year-Rehling by name,
Has led his class through hell and fame,
You'd see him talking with the Dean,
And then here tell of whom he'd seen.
That grin of his, our President's
 Compared to that of Pepsodent's.

We wish the seniors luck to come,
For engineers they will become,
And hope that when they read this verse,
They'll give us more than just a curse.
The sophomore class, we leave—Oh Gee!
Thank God next year we'll juniors be.
With the arrival of the Class of 1953 to Newark College of Engineering the female population of the school was increased one hundred percent, from three girls to six. These charming additions were Georgina Scrofani, Mary Purvis, and Florence Mazarek.

In the first week of school the class formed a Council and appointed Anthony Barbera temporary president. Under the able assistance of Harry K. Bethmann, organizer of the class, the council as their first official act wrote and approved a constitution.

Officers of the class elected in December were Charles Lubetkin president; Herbert A. Beebe, vice president; Mary T. Purvis, secretary; Ciriaco P. M. Maffia, treasurer.

With these officers installed plans for collecting dues and holding dances were begun.

The end of the year will see the class well on its way to make their stay at NCE an enjoyable one for all.
Mr. and Mrs.
Marcel J. Leary
Announce the Arrival of
Cathy Lynn
On September 26, 1948

The Committee wishes to offer the following suggestions for a pleasant day in New York City:

Radio broadcasts:
1. Fred Waring's Pennsylvanians
   Tickets are available for this broadcast which begins at 10:15 A.M. at Radio City 8BC. Those who attend this performance will also take the famous Radio Studio-Television Tour at 1:45 P.M. Please sign your name on the bulletin board in Verson Hall before Thursday, April 6.

Senior Class Trip to New York will take place on April 6. The day for the trip was set to fall during the early in the evening, a visit to your favorite night spot or some of the more fascinating parts of the city.

Lists of stage shows and their respective prices for tickets may be purchased will be made available to give you a chance to choose the show you'd like to see. Instead of the above, you can call the Box Office at New York and ask them to send you a list of the available shows and prices.

The list will include almost every stage show available.

SOCIAL CALENDAR

Reserve These Dates for a Good Time!

Oct. 29 Saturday Informal Dance
December 15 Saturday Faculty-Fair Day
February 11 Saturday Informal Dance
March 10 Friday Tau Beta Pi Junior Senior Ball
April 12 Wednesday Class Day in NYC
May 24 Saturday Class Picnic
June 7 Wednesday Senior Ball (Final)
June 9 Friday Commencement

Sophomore Hop
At Crystal Lake
The Crystal Lake Castle in West Orange will be the setting for the annual Sophomore Hop. Horace J. Reiner, President of Sophomore Class, has announced March 13th as the date. Music will be supplied by Don Groome and his orchestra.

At the same time a meeting was brought up and passed providing for absentee ballots by the section representatives. Those Sophomore representatives who will not be able to attend the meeting should send their votes to Horace Reiner as soon as possible.

Among Sophomore Merry-Makers

Something's got to be done about these reports. I'm starting to worry now that I'm not collecting data sheets at twice the rate I was writing reports. This is one of those unimportant situations. Like the national debt or the checks from the V.A., can last only as long as we keep the capes around and you either start to do your work or you're for the salt mines. I remember back in the old days when we used to knock off an experiment every couple of weeks' grade system.

Junior "Ragtime" Smoker
Will be held on Friday, April 29
DOCTOR CHARLES L. MANTELL
Chairman
"I won't tell you you're good. I have to live with you for a year."

PROFESSOR GEORGE C. KEEFFE
Executive Associate
"It's perfectly easy, nothing to it. Hence, I expect you people to be experts now!"
DOCTOR CARL W. CARLSON
"Why that's an easy problem. My twelve year old daughter can do it."

PROFESSOR EMERITUS VERNON T. STEWART
"What's the matter? Want your money back?"

MR. MELVIN WOLKSTEIN
"Ah ... let's quiet down now."

DOCTOR JOSEPH J. JOFFE
"It doesn't matter how you do it, as long as you get the right answer."

MR. JEROME J. SALAMONE
"Obviously, this is the new steam film coefficient which, obviously . . . "

DOCTOR SAUL I. KREPS
"Well, why don't you try Methyl Red?"

PROFESSOR MICHAEL FREDERICK
(Speaking to Bob Ross): "I think you should have gone to a liberal arts school."

DEAN JAMES A. BRADLEY
"Oh, do we have a test today?"
Irwin Leroy Adler
Secretary A.C.S.; Section Representative; Nucleus Staff; Technician Staff; A.C.E.S.; Phi Beta Tau; Intramural Basketball, Softball.

A man of many interests, Irv is best known for his love of music. He has been instrumental in organizing our more tuneful interludes, in school, at picnics, or anywhere N.C.E. men congregate.

Irv is also a fellow of individualistic beliefs, any of which he is willing to defend at the drop of a question mark, and defend ably.

George Alceo Armenante
A.C.S.; Phi Beta Tau; Intramural Baseball.

Happy, carefree, and a friendly chap—George is a regular sport. His manual dexterity and his ability to solve practical problems rates him high in the eyes of his friends. George's knowledge of electricity and textiles well supplement his mastery of chemistry.

Edward Joseph Barrasso
Tau Beta Pi; A.C.S.; A.C.E.S.; Intramural Basketball, Softball.

Ed is a methodical man. He tackles all problems and usually obtains the correct answer. “Actions speak louder than words” can be applied to Ed. If there is a job to do, he does it well with no fuss or commotion. Ed is interested in sports, and also enjoys himself puttering in his garden.

Albert G. Buck
President, A.C.S.; Chairman, P.S.C.; Professional Societies Editor of Nucleus; Student Council; Intramural Basketball.

“A big wheel” in the professional societies, Al is universally liked. A promising basketball player in his first years, he was forced to quit when he became one of Mr. Specht’s assistants. His main vices are playing rummy, pinochle, and pinball machines, excelling in the latter.
Walter Theodore Burchak
A. C. S.; A. C. E. S.

One of the few Chemicals to wear gold braid during the war, "Lieutenant Walt" is definitely convinced there's no place like the Air Force. Walt's good nature made him the target of many practical jokes.

Arthur Hencken Burt
A. C. S.; A. C. E. S.

Cooperative and industrious, Art is a fortress of patience and a methodical worker with a deliberate but sure style, as Dyke can testify. His friends will always remember Art's ability to smile at anyone's idea of humor, a quality calculated to arouse and hold the friendship of all who know him. His passion for science-fiction is exceeded only by his efforts to get the correct solutions to his engineering problems.

Emil E. Christofano
A. C. S.; A. C. E. S.; Table Tennis Club; Phi Beta Tau.

With the "Strength and Health" build, Chris can be found playing table tennis at every free moment. He is well-liked for his helping hand and his determination to get things done. His hospitality is unlimited; in fact, we sometimes wonder why his back is not bare. He has a happy disposition and an appreciation of culture, which no doubt stems from his Latin heritage.

John Colonias
Treasurer, A. C. S.; A. C. E. S.; Phi Beta Tau.

J. C. is the "life of the party" both in and out of school. A big smile, a friendly manner, and a cheerful disposition make John one of our most popular students. No social event is a success without his jovial company, and by the same token, no report is complete unless J. C. has worked on it.
John Thomas Dempsey  
A.C.S.; A.C.E.S.; Intramural Basketball, Football, Softball.

Jack is not to be confused with the former boxer except in size. He is, however, an ardent athlete, particularly valuable when a blocker was needed in a football game. Well-known for his happy smile, tenor voice, his knack for telling a story, Jack will be especially remembered for being Em-Cee at the Senior Smoker.

Wilmer J. Dyke  
Nucleus Staff; A.C.S.; A.C.E.S.

How could anyone forget the numerous questions Bill asked in class? Never letting an opportunity pass him by makes Bill one of the most resourceful members of our class. Constantly drawing on his industrial experience, he is an asset to any group. With pipe in mouth and question in cheek, Bill pensively thinks of his wife and three children.

Nelson C. Edwards  

Nelson is a genial fellow with a smile for everyone. His extensive industrial experience has added much to our understanding of academic subjects, while his naturally mature outlook has lent a scholarly air to many of our classes.

Joseph P. Ferraro  
A.C.S.; A.C.E.S.

Joe is one of those good-natured chaps who smile when the going is roughest. He seems to find a bright spot in all matters, regardless of difficulty. Joe likes to play tennis and is always ready to go square-dancing. His happy face indicates that his recent marriage is a blissful and contented affair.
Moe Milton Goldy

Nucleus Staff; A. C. S.; A. C. E. S.; Intramural Basketball, Football, Softball.

Moe must be a born government man, for few people can describe the benefits of Civil Service in such detail as he. Constantly bewildering his friends by his zany antics, Moe's lab attire coupled with his home-made experiments label him as an ingenious and devil-may-care person. However, his interest and application have earned him an excellent scholastic standing.

Ernest Edward Griesser

A. C. S.

"You know, I was up to the South Branch Saturday . . ." is a familiar quotation from Ernie, because it typifies him and his love—fishing. Amiable, well-liked, conscientious—Ernie is a charter member of the "One That Got Away" Club. In Bus 140 he good-naturedly traveled Route 29 daily, amusing the Prudential employees.

Rodwin Edwin Gulick

A. C. S.; Intramural Basketball, Softball.

Youthful, friendly, scholarly Rod proved to be one of the best men in the Chem Lab. A god sportsman, Rod excelled in basketball and softball where he demonstrated the highest principles of fair play.

Angelina Halamandaris

Tau Beta Pi; Features Editor of Nucleus; Technician Staff; Section Representative; A. C. S.; A. C. E. S.; Visitors' Day Committee.

All who know Angie will agree that she is a diligent, tireless, and thorough worker. Never to be forgotten are her flashing smile and her adaptation to the many problems that a girl meets in an almost completely male student body. Angie's constant twisting of her hair will set her apart in any group.
Donald Alexander Hoatson

Nucleus Photography Staff; A. C. S.; Intramural Softball, Basketball.

A diligent scholar with a jovial disposition, Don has the almost extinct virtue of patience. A rabid photography fan, he can sometimes be seen dwarfing his camera and shooting away at anything moving. His generosity and friendliness make him a favorite with any group.

Leonard Hollander

Secretary, Tau Beta Pi; Vice President, Sophomore Class; Treasurer, Junior Class; President, Tau Delta Phi; Nu Chi Epsilon; Handbook Staff; Technician Staff; Student Council; I. F. C.; A. C. S.; Bridge Club.

A leader among men, an outstanding scholar, an avid worker in extracurricular activities, Len has certainly left his mark on the College. His list of accomplishments show a wide variety of talents which Len possesses in addition to being a “hail fellow well met.”

William Frederick Howering

A. C. S.; Intramural Softball, Football.

Bill is ordinarily a quiet fellow, but when he does speak his words are worth listening to and his thoughts worth noting. His easy-going manner and pleasant smile make him well-liked by all his associates. Bill’s retiring disposition leaves him when he trots out on the baseball or football field, where, due to his fine spirit of cooperation, he is a definite asset and a permanent source of inspiration to his comrades.

Milton Stanley Jaglowski

A. C. S.

Milt is one of those quiet, unassuming fellows who always seems to be around when needed. Dependable and competent, he remains a great source of help in the background, analagous to an Ace-in-the-hole. This latter phrase is particularly apt in describing one of N.C.E.’s top pinochle players.
Adolph Michael Jakstis  
A. C. S.

Mike was one of the invaluable assistants to Mr. Fermach in the Chem Engine Lab. Without his expert aid and helping hand, we probably would have had a much easier time there. He is forgiven, however, because he rendered guidance and help that was certainly appreciated.

Bernd Kahn  
Tau Beta Pi; Nucleus Staff; A.C.S.; A.C.E.S.

“A bull in a china shop” in the lab and a curve-breaker in class, Bernd is both feared and respected by his classmates. A painstaking worker with thoroughness and talent, he has the additional quality of cordiality.

Howard Kanengiser  
A.C.S.; Visitors’ Day Committee; Intramural Basketball, Softball.

Howie’s concern about Peter Hagen and the other fellow, and his readiness to help where needed will long be remembered. A mountain of strength and integrity, he is a tasteful dresser and a dynamic personality. Howie can be billed as having either the greatest chest expansion at NCE or the greatest patience in affairs of the heart.

John K. Kaufman  
Section Representative; A. C. S.; A. C. E. S.; Phi Beta Tau; Bridge Club; Golf Club; Intramural Basketball.

John never seems to lose his composure nor get excited whether he is playing ball, working in the lab, or taking a quiz. Adept at both bridge and golf, J.K.K. has a wide circle of friends. Willing to cooperate and unstinting his efforts, he has offered his fraternity and the class many valuable services.
James Patrick Kelleher

Tau Beta Pi; *Nucleus* Staff; Senior Council; A.C.S.; A.C.E.S.; Welfare Committee; Intramural Basketball.

Smiling Jim has achieved an enviable scholastic record and a host of friends. His wide range of extracurricular activities indicates his versatility and his sincere interest in college welfare. At lunch Jim lends his wit and humor to his friends’ repasts.

Fred Leavitt

A.C.S.

Fred is an indispensable member of our class, for he typifies the common man’s idea of a scientist. In short, he is an inventor. Fred has already come up with innumerable gadgets, many extremely practicable. The scientist, however, is counterbalanced by the human side. Inventive, industrious, silent, and able—that’s Fred.

Marshall Monroe Levy

Vice Chancellor, Tau Epsilon Phi; *Nucleus* Photography Staff; A.C.S.; Intramural Basketball, Baseball.

Marshall is famous for his odd questions in class and his seemingly unrelated discussions to a problem. Ever willing to share his possessions with others, the problems arising therefrom were a constant source of amusement and conversation. His patented laugh and quickness to enter into any discussion will distinguish Marshall in any gathering.

Stanley A. Mruk

Class Council; *Nucleus* Staff; A.C.S.; A.C.E.S.; Phi Beta Tau; Intramural Basketball, Softball.

Thoughtful and quiet, conscientious and considerate, Stan is a man among men. An excellent student and an active athlete, he can speak three languages, having been born in Europe and lived ten years in Argentina. Stan’s cosmopolitan background will stand him in good stead.
Edward Shaw Naylor

Although Ed is usually sedate and quiet, his soft drawl and easy attitude vanished when he stepped onto the field of sport where he was a powerhouse in human form. But whether in field or in classroom, Ed was liked by all for his sportsmanship and fine spirit of cooperation.

John S. Negra
President A. C. E. S.; Varsity Baseball; Baseball Coach; A. C. S.; Student Council; Junior Prom Committee; Senior Smoker Committee; Intramural Basketball, Softball.

John's practical experience in industry has made him an asset to his friends. In Qual. Lab. he could always be found surrounded by other Chemicals asking about the unknowns. With his boisterous laugh he attacked all problems and his efforts to get the A.I.Ch.E. recognized will be remembered by all senior chemicals.

Melvin Carl Nelson
A. C. S.; Intramural Football.

With hands in pockets and blond hair flying, Mel is ever ready to explain seldom-heard-of specialty liquors. His Aquavit (potato gin) project coupled with his raisin wine making was always a point of laughter and comment. Mel has an unlimited wealth of practical knowledge and applies everything he learns to this end. The question we ask of Mel is "Can anyone get a job without pull?"

Herbert Otani
Secretary A. C. E. S.; Class Day Committee; A. C. S.; Wrestling Team; Phi Beta Tau; Intramural Basketball.

The "Smiling Irishman" (O'Tani), aside from his St. Patrick's Day activities, is one of the most athletic members of our class. He is a typical collegian, dressing and acting the part. However, Herbie adheres to the motto, "All play and no work is bad for the NCE student."
Howard L. Payntar
A. C. S.; Section Representative.

A mature outlook, coupled with quiet sincerity, is Howie's personal hallmark. Though an unfulfilled interior decorator, this secret ambition was no hindrance to him in or out of class. Even while attaining good grades Howie was always ready to volunteer for positions which were short on recognition, but long on service. His ability, willingness, and good nature produced many friendships.

Frank Nicholas Pelleteri
A. C. S.; A. C. E. S.; Nucleus Literary Staff; Phi Beta Tau; Intramural Softball, Basketball.

A smile, carefree attitude, and friendly manner makes Frank a friend to all. His readiness to work hard to get a job done was evident both in the classroom and the frat house. In spite of all his activities Frank still finds time to play the saxophone and keep his female friends happy, the two achievements not necessarily being related.

John Porada
Chairman, Junior Class Day Committee; A. C. S.; A. C. E. S.; Section Representative; Phi Beta Tau; Ping-Pong Club; Intramural Softball.

John is one of the boys in as much as he is always in the middle of every social or scholastic gathering. The ability to get along with everyone is only one of his many talents. John will never hesitate to help a friend and can always be counted upon to give his best. His buddies call him a politician, since his initials are J. P. and he is never without his bow tie.

Robert E. Potter
Co-Chairman, Class Night Committee; A. C. S.; A. C. E. S.; Nucleus Staff; Section Representative; Intramural Baseball, Football.

Class cynic (of the Will Rogers type) Bob deserved the title of "Class Wit." Rarely worried, always smiling, he never lacked an audience, a friend, or a fellow elbow-bender. Though a good student, Bob's artistic ability was more prominent in cartoons than in report graphs and sketches.
Herman F. Reinhold

Associate Editor of Nucleus; A.C.S.; Intramural Basketball, Softball, Football.

The ability to get along with everyone is a part of the pleasant disposition that "Doc" possesses. An avid sportsman and a lover of music, he has this rare combination to blend with his proclivity for chemistry and writing. "Doc" was a thorough student throughout the week, but was invariably thankful when Friday rolled around.

Harvey W. Rogers

Literary Staff, Nucleus; A.C.S.; A.C.E.S.

His greater experience gives Harvey a serious outlook. Impatient to finish a job once it was started, he spent many lunch hours in the library writing reports. Harvey plays the piano and dabbles in photography and tennis. However, being a married man, his main interests are centered about his home.

Robert L. Ross

President, Tau Beta Pi; Co-Editor Nucleus; Nu Chi Epsilon; Tau Beta Pi Freshman Award; Pi Kappa Phi Sophomore Award; Feature Writer on Handbook; Student Council; A.C.S.; Intramural Basketball, Softball.

Bob actually needs no write-up, for his personality and accomplishments have been indelibly impressed upon all. The top man in his class, he demonstrated a marked executive ability and a knowledge of human relations in both his academic and extracurricular activities.

Arnold Gerald Schwartz

Nucleus Layout Staff; Section Representative; A.C.S.; A.C.E.S.; Phi Beta Tau; Intramural Softball.

Arnie is one of our most popular students and a typical fraternity man. The warmth which we feel for him stems from his broad smile, cheerful attitude, and dynamic approach to life in general. The amount of work he does can be measured by the shock of hair falling over his forehead, but it's those dimples that attract feminine admiration.
William Gilfillan Sharp, Jr.
Secretary, Phi Beta Tau; A. C. S.; A. C. E. S.; Baseball Club; Intramural Basketball, Softball, Football.

Though he can be counted on to always have his work done, Bill still finds time to participate in many sports and verbal conflicts on behalf of the Brooklyn Dodgers. The silent member of the trio of Sharp, Sisti, and Wright, he is the steadying influence of his class.

Joseph Don Singalewitch
Tau Beta Pi; Literary Editor, Nucleus; Honors Option; A. C. S.; A. C. E. S.; Intramural Softball.

The variety of nicknames — Joe, Singale, J. D., and the more conventional Don—indicate the camaraderie which exists between this man and his classmates. Youth, for he is the youngest member of the class, has proved no handicap in the classroom or in any other phase of Don's school career. His scholastic achievements attest the former, and those who have associated with him in work on the Nucleus and other social occasions will confirm the latter.

Armand Sisti
A. C. S.; A. C. E. S.

"Army" is one of the neatest dressers in the school and seems to use this, together with his handsome countenance to achieve closer contact with the students (feminine) of a nearby secondary school. A persevering and steady student, Army is frequently found pursuing scholastic duties in the NCE library with his friend, Bill Sharp.

Theodore Woodfield Stevens
Tau Beta Pi; A. C. S.; A. C. E. S.

During his four years at NCE, Ted has established himself as one of our experts in the art of diplomacy and tact, both in class and at the pinochle table. Ordinarily a quiet fellow, he has, however, been known to raise his voice loud and long when he believes he is right. And by gosh, he usually is!
Joseph Tichansky
A. C. S.; A. C. E. S.; Phi Beta Tau.

Joe is a quiet fellow in school, but by the same token, is the "life of the party" outside of class. A pleasing personality and a cheerful smile make Joe a typical NCE student. If there is a task to do, he will give his best in cooperation and spirit.

Arthur Warren Timm
A. C. S.; A. C. E. S.; Bridge Club.

If he's not worrying about reports or writing them, Art is out with his wife, playing bridge, golf, or fishing. A hard worker with an eye for detail, he was always a model to follow for completeness. We shall long remember our class "Medicine Man."

Edward Frederick Wood
President, Senior Class; Vice President, Nucleus Staff; Student Council; A. C. E. S.; Junior Prom Committee; Intramural Softball, Football.

"Steady Ed" is well-known for his dependability and dynamic attitude. Always available for tough assignments, he can be counted upon to do a thorough job. Known as the guardian of the Senior Class ideals, he also performs a less publicized service as guardian of the school buildings after dark through his position as night watchman.

Charles H. Wright, Jr.
Treasurer, Senior Class; Interfraternity Athletic Director; Section Representative; A. C. S.; A. C. E. S.; S. A. M.; Varsity Baseball Team; Ping-Pong Club; Phi Beta Tau; Intramural Basketball, Softball.

Charley was one of the courageous defenders of the Bookstore, always ready to do battle in the Registration Day attack. In addition, he had the enviable task of photostating our grades. He was quite a busy bee, but still found time to become one of the class humorists and capably supplement the varsity baseball team.
Camera Shy

Hermann J. Ehringer
George B. Kilbride
Rudolf A. Sauer

Edward J. Serven
George Spatz
Seymour Weiss

Elias Hoffman
Civil Engineering
Faculty

PROFESSOR WILLIAM S. LA LONDE, JR.
Chairman
"... and these three ten minute problems should take you no more than three hours."

PROFESSOR JAMES M. ROBBINS
Executive Associate
"... there's nothing wrong with working in the Andes except that it's cold and miserable; there are no women, and there is no drink!"
MR. EMERY MARTON
"The quiz wasn't difficult—you just didn't get my answers."

PROFESSOR RICHARD D. MANGASARIAN
"Any married man in this class will pass!"

MR. LEONARD SHAPIRO
"There are two ways to approach this problem, your way and mine. I sincerely advise you to ignore yours."

PROFESSOR FREDERICK G. LEHMAN
"Let's take a simple example... and this force acting on the structure is not really a real force, but it does work—not real work, but imaginary work. This force has been there since time immemorial. Is that clear?"

MR. ROBERT J. BALLIS
"From my years of practical experience, this is the way we did it."
Howard Fred Alter
Student Council; Senior Picnic Committee; A. S. C. E.; Intramural Basketball, Softball.

If in passing any of the Civil Department’s classes you have heard convulsions of laughter, you can be sure that “Howie” has just administered the “coup de grace” to an instructor who attempted to match conversational wits. As Maplewood’s staunchest supporter, Howie is always ready with a quick smile or an even quicker answer.

Joseph Louis Artusio
Vice President, Delta Zigma Zeta; A. S. C. E.; Intramural Basketball, Bowling, Softball.

“Little Joe” is equally conscientious scholastically and socially. Determination lies behind the quiet manner and warm smile which have made him popular in any group. Becoming vice president of his fraternity was probably a reward for his bowling progress as well as his personality.

Stephen Allan Betts
Student Council; A. S. C. E.; Rifle Club; Intramural Softball.

Al’s most notable accomplishment in college was his son, now three years old. The only civil student capable of this feat, he has taken the added responsibilities of a family in stride. Not to be overlooked is Al’s keen wit, which has enlivened many lectures. Al may be found any evening building a table or a lamp or working on his “hot-rod”
William Francis Boyle, Jr.
A. S. C. E.; Intramural Basketball, Section Representative.

"Red" Boyle has a flair for discussion in the classroom, in the corridors, or in Dave's. At some time during his career in the Civil Department, Bill acquired the nickname of "Wide Flange". Since his honeymoon to Washington, Bill can offer expert guide service around that city.

Richard Collins Bunten
Vice President, A. S. C. E.; President, A. S. C. E.; Chairman, Visitors' Day; Professional Societies Council.

Dick has fine balance of hard work and ability. Mute testimony to his wonderful psychomotor control is his ability to rack up innumerable free games on any pinball machine. When not flying his "F6F" or playing baskeball with the Cedar Grove firemen, Dick relaxes with his lovely wife and daughter. He is a combination fighter pilot, auxiliary fireman, baseball player, dishwasher, surveyor, truck driver, father, bagatelle expert, chorist, and home town philosopher. Need any more be said?

Alfred Buta
Executive Manager, A. A.; Vice President, Rifle Club; Section Representative; A.S.C.E.; W. K. Kellogg Fellowship in Public Health Engineering; Varsity Baseball; All-Star Basketball Team; Intramural Basketball, Softball, Baseball.

Besides being a good student and all-around swell fellow, Alfie is a regular member of the State Champion American Legion basketball team. He was one of the first two N. C. E. students to be accepted by the Kellogg Foundation of Michigan to receive specialized training in public health practices, and thanks to his outstanding record other students will have a chance to follow.
Norman Damron
Vice President, A. A.; Vice President, S. C.; Chairman, Freshman Orientation; A. S. C. E.; S. A. M.; Varsity Table Tennis; Bridge Club; Intramural Basketball, Table Tennis, Softball.

To write about Norm Damron is a difficult job because he never sat still long enough to give anyone much information. When not in class, Norm could be found on one end of a table tennis game or playing bridge, and one could not talk to him without buying a ticket to some social function that he was plugging. An industrious fellow, Norm is the man to see when Frigidaire wants a North Pole representative.

Frank George Cacossa
Vice President, Ski Club; Student Council; A. S. C. E.; Intramural Basketball, Baseball, Tennis.

Sports are "Bucky's" hobby, and he has become proficient in baseball, basketball, tennis, football, wrestling, and skiing. His many profitable business enterprises, such as selling Christmas decorations, have indicated that "Bucky" may have a great future in salesmanship. Friendly and considerate, he's the type of fellow that is "good company" wherever he goes.

Chester Paul Cherry
Vice President, Phi Sigma Omega; Fraternity Reporter; Senior Dance Committee; A. S. C. E.

Chet always has a big smile and a good word for everyone. His quick wit and pleasing personality have made him well known throughout the Civil Department and the college. His sincerity coupled with a capacity for hard work will make his graduation a loss to the college, but a gain for the profession.

Richard J. Croly, Jr.
A. S. C. E.; Bridge Club.

Dick has a friendly, easy-going nature which makes it impossible for him to say no—to making the fourth at contract or taking out his best girl. Although Dick would rather play bridge than build one, he will make a good engineer. If not, his fortune will be assured by publishing Croly's Contracts or Three No Trump. His mental alertness and accounting ability have made him unique among NCE's engineers. Who else can boast of never having used a slide rule?

Norman Damron
Vice President, A. A.; Vice President, S. C.; Chairman, Freshman Orientation; A. S. C. E.; S. A. M.; Varsity Table Tennis; Bridge Club; Intramural Basketball, Table Tennis, Softball.

To write about Norm Damron is a difficult job because he never sat still long enough to give anyone much information. When not in class, Norm could be found on one end of a table tennis game or playing bridge, and one could not talk to him without buying a ticket to some social function that he was plugging. An industrious fellow, Norm is the man to see when Frigidaire wants a North Pole representative.
Donald J. Dougherty
A. S. C. E.

Don is the quiet type—hardworking, sincere, and dependable. His casual manner tends to hide a sharp, calculating nature. When Dougherty volunteers an opinion, it is sure to be well considered and worth listening to, because of his wide experience.

Eugene L. Duxbury
A. S. C. E.

Eugene L. Duxbury—our candid daddy from Paterson—spent two summers surveying for the State. He must be a future "Titan", having acquired in a few years a wife, daughter, Ford, 3 houses, television set, etc. He didn't finance it by saving old razor blades either.

Helmut Friedrich Geiger
Tau Beta Pi; Nu Chi Epsilon; Chairman, 1950 Visitors' Day; Corresponding Secretary, A. S. C. E.; Program Chairman, A. S. C. E.; Chairman, Interclub Council, Secretary Interclub Council Representative, A. S. C. E.; S. A. M.; Student Council; Glee Club.

Helmut is a prodigious worker who has put most of his free school hours into study; nevertheless, he has applied himself diligently and sincerely to extracurricular activities as well. Perhaps a bit reserved, he has made up for this trait by his being well-liked by all his associates and respected for his professional ability, resourcefulness, and initiative.

Seymour Harold Goldberg
Art Editor, Nucleus, Technician, Surveyor; Co-editor Surveyor; President; Table Tennis Club; A. S. C. E.; Varsity Table Tennis; Intramural Basketball, Football, Softball, Table Tennis.

Without Sy's skill as a cartoonist, the Technician, Surveyor, and Nucleus would be artless. A natural humorist and a painstaking worker, Sy has rendered deft talent to table tennis and increased the prestige of this sport in intercollegiate competition.
Arnold S. Katz
President Freshman Class; Treasurer, Sophomore Class; President, Vice President, Secretary Student Council; President, Nu Chi Epsilon; Manager, A.A.; Varsity Basketball; Chairman, Visitors' Day; Social Affairs Chairman; Business Manager, A.A.; Table Tennis Club; Chess Club; Bridge Club; A.S.C.E.; Intramural Sports; Honors Option.

The long list of activities evidences Arnie's friendly willingness to be of service wherever he can. One of the really hard workers of the class, he has still efficiently pursued his studies while remaining likable, cooperative, and even-tempered.

Paul Joseph Kliminski
President A.S.C.E.; Manager, Tennis Team; Pi Kappa Phi; Tennis Letter.

The engineering profession will profit greatly by the analytical mind of Paul J. Kliminski. The precision and efficiency of his work has been indicative of his methodical approach to all problems.

Robert Koser
Class Council; A.S.C.E.; Intramural Softball, Touch-Football.

Well dressed and poised, Bob has contributed to the social welfare of the Civils by arranging several get-togethers for the department. His favorite topic was the virtues of his home town, Irvington, but his cooperation and resourcefulness have made possible the success of the activities in which he participated.

Eric W. Kummert
A.S.C.E.; Bridge Club; Intramural Foot-ball, Boxing, Basketball.

A good mixer and willing classmate, Eric enjoys harmless practical jokes and participations whenever possible. He has endeavored to maintain a full sports program at the college and has given his all. His scholastic record speaks for itself, and his athletic prowess can be attested to by many.
Wesley LaBaugh
A. S. C. E.

"Wes" always smiling, a long way from his hat to the floor, engineered a family in New Jersey and a road in Minnesota. He was an expert on imitations and excelled in intramural sports. Spare time at home was spent on photography.

Bernard Laefsky
A. S. C. E.; Intramural Softball.

Those well acquainted with Bernie know that behind his ready smile and easy-going nature lies an exceptional degree of technical ability. Bernie is well suited for work in the structural field. Not only does he possess the necessary scholastic talents, but he does his best work under pressure. This ability to think on his feet will undoubtedly help him in the future as in the past four years.

Frank Burns Likens, Jr.
Warden, Pi Kappa Phi; Varsity "N", Tennis; A. S. C. E.; Pi Kappa Phi; Intramural Basketball, Softball.

A dresser of distinction, an air of mellowness, and a sportsman in his own right, Frank has offered his fraternity, his friends, and our class valuable aid and advice. Frank's dignity makes him an ideal representative of the Civil Department, but it does not impair his skill on the tennis court.

Thomas Arthur Maguire
Treasurer, A. S. C. E.

Tom started his college education just prior to the recent world war. Called to service early in 1943, he served for three years in the field artillery. Upon his discharge Tom returned to N. C. E. to continue his preparation for a career in civil engineering. Here he was associated with the famous Kliminski Likens-Maguire trio.
Felix Matusky
Student Council Representative; Commodore Yacht Club; A. S. C. E.; Ski Club Dancing Club.

In addition to his scholastic work, Felix manages to maintain a wide range of outside activities. He serves as committeeman for a local Boy Scout troop, is an active member of YMCA, and of a local outdoor club. Felix is especially interested in medicine and biology and is ready to give dissertations on either at any time.

Richard W. Mayo
A. S. C. E.

A far wanderer from Basking Ridge (New Jersey), Dick has been the good-natured butt of many “hick” jokes. A hard worker and companionable fellow, he has been a worthy addition to many groups.

William F. McIntyre
A. S. C. E.; Bridge Club; Intramural Touch-Football, Softball.

“Mac” supplied the humor, the color, the appropriate comments, in the everyday classroom routine. He excelled in being the source and object of witticism. “Old Bill”, however, also possessed an abundance of the more fundamental qualities of personality and character that gained for him the deep affection and respect of his classmates.

Ivan Merritt Metzger
A. S. C. E.

Alert and intelligent, Ivan will be well remembered for his quick wit and appropriate wisecracks. He supplemented his education by attending M. I. T.'s Summer Civil Camp. He came back twenty pounds heavier. Ivan also achieved distinction by keeping a Staff Control class awake for the entire two hours.
Howard R. Rapp, Jr.
A. S. C. E.

Howard is one student who never let an instructor stop until all his questions were answered. Very serious about his studies, Howard did his relaxing at bridge or with beautiful Nancy whom he married at the end of his junior year. Quiet, persistent, and sincere, Howard will be remembered for his good taste and good looks.

Thomas Paul Sciola
A. S. C. E.; Intramural Softball.

Tommy “Speed-Boy” Sciola could really move around that outfield where he was the defensive ace of the Civil Ball Team. Frank, dependable, contented, he was quiet and easy going in school but reputedly the “life of the party” outside class hours. Tommy’s thoughts often wandered from the virtues of engineering to those of the opposite sex.

Mervil John Seeley
President, Sophomore, Junior Class; Club Editor, Nucleus; President, Nu Chi Epsilon; Recording Secretary, A. S. C. E.; President, Table Tennis Club; Honors Option, Jr.; Varsity “M” Table Tennis; Student Council; A. A. Council; Bridge Club; Intramural Basketball, Football, Softball.

Voted as the “man who had done the most for his class,” Merv’s record at N. C. E. speaks for itself. He is that rare natural leader who inspires by personal example the groups and individuals with whom he comes in contact.

Ernest Richard Segesser

Ernie combines an appearance of reserve with sincerity and friendliness. Not many in Ernie’s surveying classes knew that he had been an army survey party chief. A sanitary major, Ernie has applied himself in this field with characteristic diligence and enthusiasm as evidenced by his work with the Michigan State Department of Health. Ernie’s ability to gain people’s confidence and cooperation will be of great value in a field where public relations are a basic function.
Seymour D. Selzer
A. S. C. E.; Honors Option, Junior and Senior; Surveyor Staff; Nucleus Literary Staff; Technician News Staff.

Amid the ocean of technical pre-occupation at N. C. E., Si was a small island of literary ability, contributing much to college publications. That Si’s ability is not one-sided is shown by his scholastic record and versatile background, which runs the gamut from short-order cook, aircraft mechanic, and combat infantryman, to summer reclamation engineer trainee. His balanced abilities will enable him to contribute to a profession which increasingly requires the broad outlook.

William Charles Singleton
Treasurer, Nu Chi Epsilon; Treasurer, A.A.; Captain, Table Tennis Team; Secretary, Treasurer, Table Tennis Club; Varsity “N”; Table Tennis; Technician Staff; Student Council; A. S. C. E.; Bridge Club; Intramural Softball.

A flashing smile, a cool head, and the tact of a diplomat are all part of Bill’s make-up. When he could spare the time from table tennis or bridge, he also showed the boys how to make those A’s. If anyone wants to learn the techniques of being a treasurer, check with Bill, who has held this position for several organizations.

Raymond Spingarn
Section Representative; A. S. C. E.; Chess Club.

“Reasonable Ray” has developed a cosmopolitan air since he has served with the Bureau of Reclamation in Denver. His western twang and ten-gallon hat are proofs of his worldliness. Always ready to work for the welfare of our class, Ray has rendered invaluable service on our class councils.

Daniel J. Sullivan
President Chess Club; Class Representative; A. S. C. E.; Intramural Softball, Football.

As president of the chess club and as a competitor in intercollegiate chess matches, Dan did a most efficient job. Modest, cheerful, and competent, he excelled in courses that required an analytical approach. A star on the softball field and a terror on the grid-iron, Dan demonstrated agility, dexterity, and good sportsmanship.
Henrietta M. Wolf

Secretary, Freshman, Sophomore, Junior and Senior Class; Circulation Manager Technician, Sophomore, Freshman and Senior; Secretary, A.S.C.E.; Honors Option, Sophomore and Junior; Student Council Activity Award.

Honey has overcome the strenuous engineering curriculum at Newark with a preponderance of social activities, not to overlook her excellent scholastic record. Her polite, kind manner has made her well known and well liked by both students and faculty. N.C.E. could use more students endowed with the philosophy and technical skill which Honey harbors.

Edward P. Wyzkowski

Section Representative, A.S.C.E.; Alpha Sigma Phi.

Ed gained a reputation as a potential author when he appeared in class with a sixty-five page term report. Serious and hard working, Ed knew what he wanted from a college education and invested great effort in achieving his goal. “Smiling Ed” managed to find time to become a fraternity brother and sportsman.

Camera Shy

William B. Gray, Jr.

President, Pi Kappa Phi; A.S.C.E.; Intramural Sports.

Bill Gray, a typical pipe smoking collegiate, combined an easy going manner a sincere personality to gain a host of friends at N.C.E. Active in intramural sports and a member of the inter-fraternity council, Bill has and analytical nature.

John Thomas O’Connor

Section Representative; A.S.C.E.

Jack is deeply interested in mathematics, map-making, and members of the opposite sex. His dynamic personality has lent much light to somber lectures. Jack will always be remembered for his sincerity, good humor, and analytical nature.

Raymond Heun
In numbers there is strength.

Civils at work.

"The strenuous process of Stream Gauging."

The refrigeration models as the water shed.

"The strenuous process of Stream Gauging."

The design goes on.

The hydraulic flow in pints is . . .
PROFESSOR ALBERT A. NIMS
Chairman
"Is this my class?"

PROFESSOR FREDERICK A. RUSSELL
Executive Associate
"Take a memo."
Famous Sayings

PROFESSOR PAUL C. SHEDD
"It's all in the equations."

PROFESSOR SOLOMON FISHMAN
"This is your bread and butter."

PROFESSOR WILLIAM JORDAN
"You can't make that assumption."

PROFESSOR ROBERT E. ANDERSON
"I'll look it up."

PROFESSOR STANLEY S. BURNS
"Let's go down to the Empire and study wave forms."

PROFESSOR DONALD W. DICKEY
"Don't call it a force! It's a vector!"

PROFESSOR MATTHEW E. ZARET
"If it rotates, don't bother me."

MR. ROBERT R. MEOLA
"Do you know what you did wrong?"

MR. JOSEPH J. PADALINO
"How much is two and two . . . yes."

MR. ROBERT W. ARCHBALD
"According to the book . . . ."

MR. DAVID KURLAND
"What's the trouble?"

MR. ARTHUR R. DENNINGTON
"Uh . . . yes, . . . well usually."

MR. CARL C. LIENAU
"We'll be sure to get to this the next time, but these discussions are interesting."

MR. CHARLES R. MOORE
"Now a D-C machine . . . that's something beautiful."

MR. WILLIAM H. VAN ZEE
"This is the correct method."

MR. R. L. WITHAM
"A full explanation is always in order."
Benson Ferris Ackerman, Jr.
Student Council; Section Representative; A. I. E. E.; I. R. E.

Having a storehouse of practical knowledge in the electronics field, Benson is a thoroughly educated engineer. He acquired the fundamentals of mathematics largely by his own efforts, and is remembered for his intricate derivations on any topic, done on a napkin, while waiting for a cup of coffee to cool. His studious and inquisitive nature will stand him well in the pursuit of his profession.

Nicholas James Albanes
Vice President, Junior Class; Vice President, Nu Chi Epsilon; Cataloger, Tau Beta Pi; Business Manager, Nucleus; President, Epsilon Phi Sigma; Student Council; Section Representative; A. I. E. E.; I. R. E.; Ahepa Fraternity.

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

Frank H. Ames, Jr.
Tau Beta Pi; A. I. E. E.; S. A. M.

Frank is a man who is distinguished for his scholastic ability, friendliness, and spirit of co-operation. Even without any of these attributes his persistence and penchant for hard work would mean success in any field. However, the combination of these elements virtually assures that he will bring credit to his college, his profession, and his wife.

Patrick Andrade-Marin
Fraternity Editor, Nucleus; Treasurer, Phi Beta Tau; Chairman, Ushering Committee; Chairman, Welfare Committee; Section Representative; A. I. E. E.; Ring Committee.

Pat, as far as we can determine, is Ecuador’s pride and joy, and well he should be. If his past activities in extracurricular affairs and his interest in learning are any indication of success in the future, Pat has nothing to worry about. We believe his most fervent desires are to return to South America with a sheepskin under his arm and to find a congenial señorita who appreciates this engineer.
Fortunate were the men who had Bill in their lab group. His high sense of humor added much to the lab work; his photographic ability, much to the weight of reports. He was a conscientious and capable student in college, and we see no reason for him to change now.

Though classed as a quiet person, Al is ever ready to inject his pointed, yet well-directed remarks into any conversation. His usually good judgement enriches any discussion, and his straightforward criticism leaves no room for dubious interpretations. Aside from scholastic endeavors, Al excels in a wide variety of sports, such as baseball, tennis, and basketball. Coupling his great sportsmanship and industrious qualities, we find that Al is well-equipped for the trials of the future.

Here is a man with a high sense of professional and executive proportions. His ability to discuss the intricacies of the problems of management will be a prime asset of his professional career. Combining this innate ability with a hearty laugh and subtle sense of humor, Bob has the potentiality of becoming an executive.

We all know Dave as a serious-minded fellow who occupied his spare moments with the sideline of watch-repairing. However, this activity did not dim his interest in engineering studies. One of the most memorable and interesting of Dave’s extracurricular duties was his operation of the movie projector for the professional societies’ meetings.
Edward Eugene Barrett
Tau Beta Pi; A. I. E. E.; Bridge Club; Honors Option, Junior and Senior.

Though Ed was one of the outstanding curve-breakers in our class, he still remained a very likeable fellow. Quick to understand and apply his knowledge, he found time to lend a hand to anyone. His co-operative nature is evidenced by his participation in the Bridge Club tournaments and in the professional society activities.

Edward William Bergmann
Tau Beta Pi; A. I. E. E.; Radio Club; Chess Club; Tennis Club; Intramural Basketball.

You will always find Ed in the Commons at lunch hour, playing a fast game of pinochle and usually winning. This neat dresser, well-liked by all, is always ready for a good joke. His '36 Chevy, held together by a prayer and a piece of bailing wire, still wheezes in every morning at nine.

Ira Martin Berman
Secretary-Treasurer, President, Photo Club; Student Council Service Booth; Section Representative; A. I. E. E.; Nucleus Staff; Technician Staff; Handbook Staff; Tau Epsilon Phi; Visitors' Day Committee; Intramural Basketball.

Although Marty hails from Jersey City, we do not hold the fact against him. He has shown himself to be a sincere participant in both curricular and extracurricular activities. Known as the "best data-taker going," Marty has often brightened the scenery at our school with his bright shirts replete with reindeer, his gaudy purple socks, and his inspiring contributions to the photography bulletin board.

Robert Charles Block
Tau Beta Pi; A. I. E. E.; I. R. E.; Phi Beta Tau.

Bob is the class jinx as a passenger in any classmate's (or instructor's) car, but his wry sense of humor, eagerness, and genuine friendliness make him a good buddy to anyone in contact with him. As a result of his "Applications Project", Bob will tackle any transformer or plating problem. His outstanding academic achievement has placed him in high regard with anyone wanting a clue to a perplexing problem.
Raymond Edward Blum

A champion among champions! Ray is undoubtedly our most famous athlete, for he participated as a skater in the Olympics and won the U. S. National Skating Championship in 1949. He has a rare combination of speed, modesty, fair play, and intelligence. His championships are not made only in sports; he is a champion among friends.

Daniel Blumberg
A. I. E. E.; I. R. E.

Known as “Big Dan” to his colleagues, Dave’s large frame encompasses a big heart. Three and a half years in the Air Force as a radio repair man showed Dan that his future lay in electrical engineering. He was an able and helpful student, possessing a sharp sense of humor that brightened many classroom hours.

Walter Boiko

Walt is a “ham” whose early interest in radio has led him into the field of electrical engineering. A studious type of fellow, he has consistently mastered the college curriculum in spite of characteristically worrying about tests. His neat appearance, pleasant manner, ability, and willingness to apply himself assure his value to any organization.

Thomas Edward Brady
Honors Option; Junior and Senior; Section Representative; A. I. E. E.

Tom is one of the wits of the class. His short stature, quick delivery, and continual smile make him a man to be remembered. Tom’s interest in rust proofing is typical of his attitude toward life: “Never let a thing decay—keep it bright and shiny.”
Arthur Chaikin
Tau Beta Pi; Chairman, Sophomore Hop; Chairman, Senior Ball; Section Representative; A. I. E. E.; Program and Planning Committee; Visitors' Day Committee.

Although it isn't printed on any medal, Artie's name seems to appear whenever there is work to be done. An excellent student, he is always willing to help a classmate. His bushy hair and inimitable voice are unmistakable, and his new Tau Beta Pi key sparkles in the sunlight. Artie will argue at the drop of a syllable but is a good man to have in a lab group.

Thomas Aloysius Connors
Nucleus Staff; Varsity Tennis Team; Section Representative; A. I. E. E.; Bridge Club; Honors Option, Junior and Senior.

Tom, always conservative and deliberate in his thoughts and expressions, achieved an enviable scholastic record. He was appreciated by all for his expansive knowledge of a variety of subjects and his amiable disposition. Tom's unobtrusive and efficient participation in extracurricular activities contributed much to the welfare of our class.

Alfred Cook
A. I. E. E.

"Cookie" is an assiduous worker who combines practicality with sparkling good humor and outstanding leadership ability. The dullness of the Electrical Lab sessions was constantly enlivened by his quick wit and boundless energy.

Robert Vincent Delaney
Section Representative; A. I. E. E.; I. R. E.

Bob is well known to the members of our class. His popularity can be accredited to a quick wit and a fine sense of humor, making his stay at N. C. E. an enjoyable experience for all who knew him. Although he has a talent for a comic, he is, nevertheless, well poised and intelligent.
Gino Emil DePaola
A. I. E. E.; I. R. E.; Bridge Club; Delta Sigma Zeta; Intramural Basketball; Softball.

Gino has the exceptional gift of coming up at appropriate moments with unrehearsed comments which always draw a laugh. In addition, an engaging personality and a co-operative spirit combine to make Gino an ideal friend. He can usually be found in the photostat room with the rest of the Coffee Club.

George W. DeSonne
A. I. E. E.

George is normally very quiet; but once a topic close to his heart is mentioned, he is difficult to stop. Not easily discouraged, he perseveres over all obstacles, including his own feelings, until the job is accomplished. It is too bad he has so many outside activities that he can only devote the hours from 9 to 5 to N.C.E. He is called “Red,” but it is not known whether he got this nickname from his red hair or from his blushing countenance. (His ambition upon graduation is to obtain a driver’s license.)

George R. Duncan

The term of sportsman can be suitably applied to “Dunc.” Hunting and fishing seasons are the happiest times of the year for him. Between these seasons his interests are bowling, reading, debating philosophical issues, relaxation, and, of course, the fairer sex.

Among his cohorts he is well known for his ready wit and his unwillingness to accept anything which cannot be proved in a logical manner. “Dunc” intends to make his career in the field of electronics.

Harry Carl Edgren, Jr.
A. I. E. E.; I. R. E.; Radio Club; Bridge Club; Golf Club; Sigma Pi; Honors Option, Junior and Senior.

An experienced and competent radio operator, Harry’s natural taste for science will blend in well with his practical experience. He has the ability to mix well with others, to play bridge and golf expertly, and to use his photographic talents to an advantage.
Morton Fromer
A. I. E. E.; I. R. E.

Mort, or W2RKF, as he is known on the air, possesses a limitless source of timely quips and a wealth of down-to-earth common sense. His “ham” activities have proved invaluable when a classmate’s radio has gone on the blink. His industrial experience and ability have stood him in good stead and will undoubtedly continue to do so.

William Gannon
A. I. E. E.

Bill is one of the most industrious workers in the class. A married veteran, he lends a mature, common-sense contribution to discussions. Bill epitomizes the expression: A gentleman and a scholar.

Byron J. Garwood
Section Representative; A. I. E. E.

By is one of our electrical students whose interest lies in the field of power. An easy going, friendly manner makes him a favorite everywhere.

After graduation By will end a long engagement by marrying. His girl is a towering five-footer, and he is the only senior who can walk upright under an N.C.E. fog. He drives a mean Ford with the seat moved forward so that he can reach the pedals.

Lawrence Robert Gebert
A. I. E. E.; I. R. E.; Intramural Basketball; Softball.

The Geeb is another prominent member of the Nicotine-Caffeine Club, which holds its meetings in the photostat room. Larry has one of the most even dispositions in the class and very rarely excites himself. He always has a ready smile or joke, a trait which has made him one of the bright spots of his class.
Frank Frederick Gegenheimer
Tau Beta Pi; A.I.E.E.; I.R.E.; Honors Option, Junior and Senior.

Geg is one of the hard-working, married vets in the class. His sober face and generally pensive mood reflects deep concentration and high intelligence. When a problem arises on which everyone else is ready to give up, Geg is the boy who will plug on until a solution is reached. He has a unique collection of unusual neckties.

Stephen Frank Gill

Since his freshman year Steve has been a good student and an active participant in class social affairs. A helpful friend both in academic work and extracurricular activities, he has contributed much to formal and informal discussions around the college.

Alan David Goldshine
A.I.E.E.; I.R.E.; Phi Beta Tau; Intramural Basketball, Softball.

Al has one of the most pleasing personalities in the class. He is always ready with a smile and willing to help whenever possible. He can usually be found in his "office", the photostat room, drooling at the pictures on the walls. When he is not in that room or in his classes, Al is usually spreading his charm in the telephone room, either mimeographing a stencil or operating the switchboard.

James Gomes
Business Manager, A.A.; Manager, Basketball Team: A.I.E.E.; Pi Kappa Phi; "N" for Basketball; Golf Club.

Jim is a man with a keen interest in athletics and has evidenced and developed it by his active participation. Besides being manager of the basketball team and business manager of the A.A., Jim was one of the better bowlers of the intra-frat bowling league. His stature did not prevent him from keeping pace with his classmates, scholastically, athletically, and socially. If an active worker was needed for any school enterprise, Jim was sure to fill the bill.
Richard Graham
I. R. E.

One of the “Hams” of the class (not a comic, but a radio amateur), Graham is a witty gentleman, a casual dresser, and one to break out in a ready smile. Dick’s interests in school are mainly in his lab work; while at home, he generally can be found tinkering with his transmitter. He is one of the few fellows who doesn’t spend most of his time griping about report writing.

Robert Graham, Jr.
I. R. E.; Radio Club.

His interest in and enthusiasm for radio work have made Bob one of the students most frequently consulted about communications problems by other students. He has been a leading supporter of the college Radio Club since his sophomore year. Speaking in a slow, deliberate manner, Bob has expressed unstereotyped opinions on many topics for the enlightenment of his classmates.

William Henry Gray
A. I. E. E.; I. R. E.

Bill’s enthusiasms are contagious. He has only to enter a group to inject a spark of life into whatever is being said or done. He has a tremendous capacity for work, and his grades at the college show that his work was to good purpose. His wife can be justifiably proud of his record, and his son has a goal of solid achievement toward which to aim.

Robert Marvin Green
I. R. E.

Bob, or “Daddy Green,” as he was known in his senior year, is an exceptionally good-natured person. His knowledge of and interests in things electronic have earned him the distinction of being the only living amplifier on two legs. With his high-tension nerves and a box of Chiclets, he has always been able to grind out a “hot” answer at quiz time.
Bernard P. Gropp  
A. I. E. E.; I. R. E.

Although Bernie was reserved and laconic, he made many friends and became very well liked in the class. In his studies and professional activities he was a willing worker and extremely dependable. His outstanding traits were modesty and a pleasant sociability which gained for him the reputation of being a person desirable to have as a friend.

Jens Arnold Hansen  
I. R. E.; Radio Club.

This Dane was anything but melancholy. His sense of humor sparked many dull topics, and his comments, in addition, were always timely and helpful. He exhibited a keen sense of social consciousness in addition to the typical engineering outlook. As a result of his lively interest in amateur radio operation, he was one of the most active members of the Radio Club.

David Richard Heebner  
I. R. E.

Dave was one of the sparks of the class when it came to group discussion. No matter what the industrial problem was, Dave was always on hand to offer a solution. His experience in the paint industry and his love for the electronics lab will stand him in very good stead. Professionally Dave is also a man with a sense of humor, while the sparkle of his smile will long be remembered by his classmates.

William Francis Heimbuch

Some of Bill's classmates would doubtless claim that he studied Joe Miller's Jokebook more than he did H.I.C., and in this belief he probably would concur. One of the seniors who got more smiles than significant figures out of his stay at N.C.E., Bill, nevertheless managed to get in a sufficient amount of hard study to bring him successfully through the past four furious years.
George Hobbib
A. I. E. E.; S. A. M.; Visitors' Day Committee; Y. M. C. A.

Chivalry is not dead as far as George is concerned, for one trait that he exercises at all times is courtesy. His manners are above reproach. Ask any female who rides Bus 140. In addition, “Gentleman George” has poise, tact, and amiability.

Ray A. Hoffman
Varsity Baseball, Table Tennis Team; I. R. E.; Visitors’ Day Committee.

Ray is still recovering from the shock which every transfer student experiences upon entering N.C.E. He has applied himself diligently, however, and has proved that he can handle almost any problem. At the same time his sense of humor and easy-going manner have won him many friends.

Ray’s glaring countenance while asking a question in class and his snappy rejoinders while engaged in discussion have slowed down more than one instructor, producing some rather interesting incidents.

Fred Huber, Jr.
A. I. E. E.; Visitors’ Day Committee; Intramural Basketball.

With an abundance of energy and vitality, Fred is the buoyant member of his section. His winning smile, his willingness to help, and his good sportsmanship enable Fred to enjoy the comradeship of his colleagues.
Albert Lawrence Ivins  
Tau Beta Pi; Section Representative; A. I. E. E.

Under his cheerful countenance is tucked away a rather serious nature. His philosophy is: "The only way to make money is to go into business for yourself." Al's brilliance as a student, coupled with his warm personality, has made him one of those rare individuals—a popular genius.

William Martin Jacobus  
Nucleus Literary Staff; A. I. E. E.; I. R. E.; Radio Club; Bridge Club.

Quiet and direct in his manner, Jake contributed much to discussions, both in and out of the classroom. His unusual capacity for injecting humor into the scholastic routine of college life was much appreciated by his classmates.

Theodore F. Jensen  

Ted is a tall, blond lad who always seems to find a smile when the rest of us are groaning. He is ever willing to give anyone in need whatever assistance he can; and once having started a job, he will work it through. He is an active member of the Pi Kappa Phi Fraternity, and through his activity in it, he has shown that N.C.E. need not be all work.

Robert V. Johnston, Jr.  
Co-Chairman Class Night Committee; Section Representative; A. I. E. E.; Bridge Club; Senior Smoker Committee; Senior Ball Committee.

Always as immaculate in appearance as a well-dressed executive, Bob does his work quietly and efficiently. He has a sharp sense of humor and an ability to make friends. His quick wit enables him to see the humorous side of any situation. Besides these assets, Bob does have Charlotte.
Haig Kalfaian
Tau Beta Pi; A.I.E.E.; Honors Option, Junior and Senior.

Kal is one of those good guys who are always ready to give a classmate a helping hand in a puzzling situation. He can instigate some very humorous situations in a most innocent manner. With this technique, he has been known to leave the class in an uproar. Kal is an alert student and a hard worker whose academic record has proved the worth of these virtues.

Alex K. Karczewski
Section Representative; A.I.E.E.; Radio Club; Dance Club; Technician Reporter; Phi Beta Tau.

Although Alex works after school, he finds time to operate his own amateur radio station, W2OAE. He is also a popular member of Phi Beta Tau Fraternity and of the Radio Club. His efficiency and astuteness, coupled with practical knowledge, enable him to produce the maximum results in his school work with no wasted effort.

Elmer Otto Keller
Student Council; A.I.E.E.; I.R.E.; Honors Option, Senior.

Elmer’s viewpoint was always fresh and original. Keenly intelligent and well informed on many subjects, he gave the class helpful information during all kinds of discussions. His oratorical ability, together with his evident intelligence, assured him a sympathetic audience when he commented on a variety of subjects.

Warren Arthur Kesselman
A.I.E.E.; Visitors’ Day Committee.

Thoughtful, dependable, and gentlemanly, Warren received his degree and his wife from N.C.E. Yes, Warren married a former secretary of the staff of the college. This combination of titans should prove to be a matchless one.
Alan Leon Kirsch

Al has the word "success" stamped on his features. His personality and his academic record reflect it. We are certain that the future will see him carrying on in the same role. Al is known to his classmates for his composure in most situations, as well as for his witty remarks, subtle as they may be. His ultimate ambition: to accumulate a million dollars and retire.

John J. Korner
A. I. E. E.

Johnny is the man with an answer to every wisecrack. It is rumored that he lies awake nights to think them up, but his witticisms are invaluable in keeping his class in a good humor. John's not content to leave us in a light mood continually, however. He is a man who can and will get things done, for in his serious state he is a hard worker.

Donald Gerard Lammers
Section Representative; A. I. E. E.

Tennis, fishing, and oil painting are the fields in which Don enjoys working. A happy-go-lucky air and an attitude of "sticktuitiveness" are his assets. If you want to hear some "salty" stories, listen to Don's accounts of his naval experiences.

Michael Joseph Lanni
A. I. E. E.; I. R. E.

With his engaging smile and constant good humor, Mike is always ready for either work or fun. His immaculate appearance and dynamic personality make a lasting impression on all who meet him. Intelligent and industrious, Mike will make Jersey City proud of him.
Lyle F. Larsen
A. I. E. E.; I. R. E.; Alpha Sigma Phi; S. A. R.; D. A. V.; Sons and Daughters of the Pilgrims.

Quiet but alert, slow but sure, Lyle is well-known as a "social butterfly." Active in many of the affairs of the college, he still maintained his reputation as a student. Professional societies and the fraternity benefited by his active co-operation.

Gerald Lebleboojian

Chock-full of vitality, Joltin' Jerry lent an air of joviality to his classes. He had little to say except when he could contribute a helpful idea to the discussion. On the gym floor or at a dance Jerry exhibited agility and affability.

Robert John Lender
Section Representative; A. I. E. E.

Bob is one fellow whose interest and participation in field trips will long be remembered. He and his bailing wired car were always sure to bite off more than they could chew. Though we did have many a laugh over his car, he always managed to arrive at classes. Bob has a serious side, however, and has shown us that he is an eager student and a dependable friend.

Melvin Eugene Liberman
A. I. E. E.; Intramural Softball.

Mel is the local politician of the class. He is the man who knows who is running for any Essex office and why. He is one of the few men in the class who never wipes the smile off his face; in fact his happy-go-lucky, carefree air has done much to liven the scholarly atmosphere. Mel has shown us that all work and no play may make Jack, but that it also makes him a dull boy.
Roderick Thomas MacFarlane


Always interested and always interesting, Mac is an essential member of our class. A sharp sense of humor makes him a master of funny stories. His ready laughter and devil-may-care personality have gained him a permanent place with us. Mac is ready to go when the opportunity arises for golf, basketball, the theater, and music, among others things. Above all, his interest lies in his happy married life.

Stephen Louis Machat

A. I. E. E.

Who's that fellow with the hayseed in his hair and the mud on his shoes from walking through fields? Why, it's Steve, the only man who can get a four-card buy in pinochle. But seriously, Steve's friendly manner and willingness to do his part plus a little more make it a pleasure to work with him. Behind his quiet manner we find a man who can take a job and get it done—and right too!

Max Magid

Publicity Chairman, Tau Beta Pi; Publicity Chairman, A. I. E. E.; Technician Staff; Section Representative; I. R. E.

In spite of distractions such as an attractive wife and a philosophical laziness, Max absorbed his studies with amazing speed and little effort. Always willing to overwhelm his classmates with strange electronic terminology, he was an asset to the group because he often doubted the correctness of the instructors' presentations. Never did a period of history or economics slip by without Max's disapproval of some basic fact or theory. The more frustrated the instructor became, the more gleeful Max was.

Charles Ernest Maginn, Jr.

Section Representative; A. I. E. E.; S. A. M.; Freshman Dance Committee; Junior Prom Committee; Visitors' Day Committee; Intramural Basketball, Softball.

Chuck Maginn

A friendlier fellow we never met,
A harder worker you can not get,
He hasn't slept in four long years
And PBY's make him shed tears.
A very good speaker with plenty of
funties—
Will be a success with oodles of
monies.

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Edward Malowicki
A. I. E. E.; Dance Club; Senior Co-Ed Club; Bowling Club.

Tall, serious-minded, reserved Ed does not become excited about hard work and details. His diligence and perseverance surmounts these obstacles. Although he is expert in dealing with the abstract and the technical phases of life, he enjoys dancing and bowling.

Joseph Franklin McCarroll

Joe is a good man to know, for he is always interested in what goes on about him. Not only was he absorbed in his school work, but also he devoted much time to extracurricular activities. However, what made Joe so well liked by his buddies was his interest in them. Joe never said "no" to anyone who asked for advice. We believe he justly deserves the title of "The Good Samaritan of the Class of 1950."

Charles Casimir McGuire
Section Representative; A. I. E. E.

Transferring from Clarkson at the end of his second year, Mac won many true friends with his effervescent personality. Hard-working and sincere, he has a vital interest in all fields of endeavor connected with engineering. Mac's keen sense of humor, desire for getting at the facts, and public-speaking ability make him an outstanding candidate for any managerial field.

Norman Millstein
A. I. E. E.; I. R. E.; Radio Club; Ski Club; Tau Delta Phi.

Norm's various interests are evidenced by his membership in the professional societies and clubs of the school. Besides these activities, he also holds a fraternity membership. Norm was energetic and hard-working in pursuit of a successful college career.
Ludwig Muhlfelder
Tau Beta Pi; A. I. E. E.; Nu Chi Epsilon; Section Representative; P. S. C.; Bridge Club.

Lud has captured the essence of a college education through the proper balance of student activities and academic education. He has a rare appreciation for music, as evidenced by his imitation of Figaro at the Junior Smoker. Indeed, Lud is perseverance and doggedness personified.

William A. Monsees
Tau Beta Pi; A. I. E. E.; Honors Option, Junior and Senior.

Outstanding scholarship, a pleasing personality, and an appreciation of good humor are only three of Bill's many attributes. In addition, he has the ability to relax and to enjoy himself in any group.

Richard Joseph Morley
Section Representative at Bayonne Junior College, President, Student Council; Glee Club; President of Alumni Association.

Dick is a conscientious student whose sparkling personality places him in high esteem among his fellow classmates. His activities have carried him as far as Bayonne, where it is rumored, he has special interests. You can find him under voracious attack in the electrical laboratory at an early hour with his lunch, a most prized possession.

George Fisher Morris
A. I. E. E.; I. R. E.

One of the most original and distinctive personalities in the class belonged to George. He was very much interested in electronics and had a wide knowledge of the subject. To see his tall, angular form bent over a circuit in the Electrical Lab, one would almost think he could perceive, by some sense not given to less fortunate beings, the mad scramble of the electrons.

Ludwig Muhlfelder
Tau Beta Pi; President, A. I. E. E.; Nu Chi Epsilon; Section Representative; P. S. C.; Bridge Club.

Lud has captured the essence of a college education through the proper balance of student activities and academic education. He has a rare appreciation for music, as evidenced by his imitation of Figaro at the Junior Smoker. Indeed, Lud is perseverance and doggedness personified.
Ralston J. Nelson
Section Representative; A. I. E. E.; Sigma Pi.

Rally's interest in college is exemplified by his short and careful performance of lab experiments, never consuming over half the period allotted. But do not be led to think Rally isn't really industrious—it's just that he likes a good time. "Mr. America" can be seen five times weekly on his trusty motorcycle. He adores television, and his idols are Captain Video and Milton Berle. Ever since he read "1984," his motto has been "Ignorance Is Knowledge."

John C. Neupauer
Tau Beta Pi; Corresponding Secretary, Bridge Club; Student Council; A. I. E. E.; I. R. E.; Tennis Club; Table Tennis Club.

A clear thinker who will always take a problem and literally reduce it to terms of length, mass, and time, and a thorough and industrious student who can be relied upon to produce a neat job — that's John. In addition, he is an ardent bridge player, a flash on the tennis court, and a "bright light" in his class.

Casimir John Osiecki
Tau Beta Pi; Nucleus Staff; Section Representative; A. I. E. E.; I. R. E.; Solar Club.

Cas has the happy faculty of integrating himself into any group and becoming an active member of it. He has served his school and fellow-classmates unselfishly, being especially diligent in the tutoring service of Tau Beta Pi. Clear thinking and conscientiousness combined with a willingness to serve a cause and help others are a few of the reasons for Cas' success and popularity.

William L. Peterson
I. R. E.

Pete is one of the serious-minded, hard-working men of the class. His love for electronics and continual fine performance in the lab have been noticed and appreciated by everyone except his instructors. Most of his "spare time" is devoted to keeping his '36 Chevy in condition to make the long daily trek from Teaneck.
Frank D. Regenthal
Chairman, Senior Dance Ticket Committee; Varsity Basketball; A. I. E. E.; Intramural Basketball.

Frank combines his many activities into a varied and full life. Possessing both a part-time job and a wife, he is kept well-occupied. Frank is experienced in electrical contracting work and expects to continue in this field. His energy and capabilities belie his seemingly casual approach to living.

Richard Henry Pfost
Tau Beta Pi; Nucleus Photographic Staff; A. I. E. E.; Alpha Sigma Phi.

Congenial and conversant, Dick has the ability to mix with any group and to become one of them. Easily adaptable, he fits on any team and is a credit to his colleagues. Marriage, a part-time job, and participation in extracurricular activities did not impede his scholastic achievement.

Malcolm Meyer Plager
Section Representative; Radio Club; Honors Option, Junior.

"The name is Plager, with a hard g" is a familiar sentence to erring instructors. Plager was the man with the questions, and he kept many a classroom buzzing with his pointed queries, phrased in rapid-fire Brooklynese. Malcolm is a hard one to disagree with. His industrious spirit commands the respect of all who know him.

Salvatore Francesco Pontecorvo
Sal is a Jersey City man and takes much good-natured ribbing on that score. His interest in Electrical Engineering stems from his experience in the Navy as an electronic Technician's mate. Sal's fellow students are agreed that his unusual ability to synthesize a problem is indicative of an engineer in the making.

Frank D. Regenthal
Chairman, Senior Dance Ticket Committee; Varsity Basketball; A. I. E. E.; Intramural Basketball.

Frank combines his many activities into a varied and full life. Possessing both a part-time job and a wife, he is kept well-occupied. Frank is experienced in electrical contracting work and expects to continue in this field. His energy and capabilities belie his seemingly casual approach to living.
John Michael Reuter
Section Representative; A. I. E. E.

John is one of those rare engineers who is willing and able to discuss any topic, in or out of class—although his time out of class is largely taken up by pinochle. In class his hobby was asking questions that the rest of the class would have liked to ask but were too hesitant. His friendly attitude makes him an extremely likeable fellow.

Victor G. Robatino
I. R. E.; A. I. E. E.

Vic's personality is pleasant and friendly. Subjects such as Electronics and Communications could arouse enthusiasm in him. His good academic record shows the results of intelligent application and willingness to work. Quiet and reserved, Vic won friends by his spirit of cooperation and amiability.

Raymond Louis Robbiani
A. I. E. E.

Ray's casual acceptance of an unusual nickname indicates to us his good nature. The secret of Ray's success lies with his newly acquired wife, Doris. His pet peeve is the dent in the fender of his Chevy, which he never has a chance to repair. A part-time athlete, Ray likes to play football and is also a good tennis player.

David Rodger, Jr.
Tau Beta Pi; Treasurer, A. I. E. E.; Senior Class Night Committee.

“Now let's get this organized” is Dave's motto and exemplifies his orderliness and executive ability. A person of seemingly inexhaustible energy, Dave is never willing to let the unexplained go by. Cooperative, thorough, and diligent—Dave takes great delight in narrating incidents about his son.
Dennis Francis Roerty  
A. I. E. E.  

Denny is one of the serious-faced fellows whose looks belie their nature. He became interested in engineering while assigned to an ASTP unit at Penn State. Denny's devoted interest in his studies has curtailed his social activities somewhat, but after June, "Watch out, girls."

Edward Louis Roller  
I. R. E.  

If any company is looking for a quiet, studious development engineer, Roller is the man. Fond of the outdoors, as is his attractive wife, he has proved himself able to penetrate a problem to see the underlying principles—a useful quality in his chosen field. In class his gentle sense of humor never fails, and his voice (which strangely seems to come from his ears) is usually heard in some apropos remark.

William James Romer  
Vice President; Photography Club; I. R. E.; Nucleus Photography Staff; Radio Club; Table Tennis Club; Intramural Basketball.  

Bill Romer—at his worst a swell fellow. During class hours he could usually be found in his "sanctum sanctorum", the photostat room. Out of class hours he could not be found. While active extracurricularly, Bill did well in his studies also. His pleasant personality and ready smile made many friends for him. He will always be remembered for his portrayal of "Sam Shovel" in the Senior smoker.

John Sabo  
A. I. E. E.  

We're indebted to West New York because it gave us John—a practical but humorous scholar. A naval veteran and the father of a five-year-old daughter, John has a broad and purposeful philosophy which admirably guided him through his college career.
James Salerno
Secretary, S. A. M.; Vice President, Delta Epsilon; Student Council; A. I. E. E.; I. R. E.; Golf Club; Radio Club; Intramural Softball.

Jim is the "Mark Hanna" of our class. In the many organizations to which he belonged he always was called upon to handle the chairmanship of one of the major committees. This he did with efficiency and dispatch. The wide variety of his interests together with the smooth handling of all his activities are mirrored in the number of his friends.

Joseph N. Sanzo
I. R. E.; Intramural Softball.

Joe is among the few men who have achieved an outstanding academic record during his stay at N.C.E. and still retained a down-to-earth sense of values. He can be considered an asset to any social function. Before coming to N.C.E., Joe attended Purdue University.

Robert Louis Schiff
Vice President, Dance Club; Vice President, Table Tennis Club; Warden, Tau Epsilon Phi; Varsity Table Tennis Team; Athletic Association Council; Section Representative; A. I. E. E.; I. R. E.; Referee Intramural Basketball; Intramural Badminton.

Bob has been very active in athletics and in his fraternity. He is a staunch power man and distastefully regards anything above 60 cycles as high frequency. Anyone with a problem may go to Bob at any time and find him ready to pitch in and help. Many of us who knew him are deeply in his debt.

Bert Schwarzschild
Secretary and Chairman, I. R. E.; Vice President, Golf Club; Technician Literary Staff; Nucleus Photography Staff; Secretary and Treasurer, Tau Delta Phi; Treasurer, Delta Epsilon; A. I. E. E.; S. A. M.; P. S. C.; Radio Club; Intramural Softball.

How Bert kept up with all his school work and extracurricular activities was a never-ending source of amazement to everyone. A man with a philosophical mind, he is equally well-prepared to speak about his pet electronic project or the social evils in the world today. If you want a sightseeing tour of New Orleans, ask Bert. He has the particulars from first-hand experience.
Bernard I. Segall

Bernie is well liked by all who know him. His fame at N.C.E. will be carried on by the “tic-tac-toe” machine that he and another student developed. We hope he will be as big a success in other professional work. With his witty remarks and good humor, Bernie has left an impression on his classmates which will last for all time.

Frank P. Senko
A. I. E. E.

Frank is one of those fellows who always has the homework problems which help carry his fellow classmates through the toughest hours of the day. What makes Frank so energetic, persistent, studious? We’re all pulling for him to reach his goal, which is a successful foreign job, preferably in Germany.

Walter Marshall Sherwood

Although “Curly” is known as the oldest living student at N.C.E., he is only twenty-five. It was fate in the form of a war and a hospital that deemed he should enter N.C.E. in 1942 and be graduated in 1950. His picturesque descriptions and imitations of some of our better-known pedagogues have brightened the gloomy moments during hopeless experiments.

Sherman Howard Siegal
President, Delta Epsilon; I. R. E.; Tau Delta Phi; Intramural Basketball, Softball.

Cynical, humorous, witty: these three characteristics are seldom found together in one person, but then, Buddy is an exceptional fellow. Although he intends to become a good engineer, Buddy does not neglect his contacts with the rest of the world. If he’s not spending a week in Florida, he’s spending a summer in Mexico. Buddy’s philosophy is, “If at first you don’t succeed, to hell with it.”
Frederick Singer, Jr.
Tau Beta Pi; Treasurer, I. R. E.; President, Golf Club; Section Representative; A. I. E. E.; S. A. M.; Radio Club.

Everyone likes the type of fellow who has plenty on the ball but doesn’t go around blowing his horn to get attention. Fred’s quiet cordiality is backed up by a wealth of ability and knowledge, as evidenced by his excellent scholastic record and varied interests. Dependability, resourcefulness and co-operative spirit are the essentials of Fred’s character.

J. Doyle Smith
A. I. E. E.

"Mr. Smith" does not have trouble getting a hotel room; just look at his honest face! He hit the school like an A-Bomb when he registered as John Smith, and he still seems to explode with good humor and a bright smile. This chain reaction, however, is tempered with a worldly outlook, probably derived from his varied experiences in the Coast Guard and in industry.

Herbert Edwin Snider, Jr.

Herb is one of the tallest men in the class and also one of the most popular. He was co-operative and helped many classmates with his extensive knowledge of radio. He has a keenly analytical mind which he applied with great success to the subjects in the curriculum of the college.

Stanley William Solley
Secretary I. R. E.; A. I. E. E.

Determination and dependability are Stan’s outstanding qualities. His quiet demeanor belies a wealth of energy and co-operation. Definitely, Stan was one of the bulwarks of the A.I.E.E. and of the I.R.E. His academic career at N.C.E. was supplemented by treks to Michigan during the summer.
Charles Stegner
A. I. E. E.

Impeccable, likeable, and intelligent—Chuck has a pleasing and affable personality. His "Union City approach" to his classmates and instructors proves that he is a master of diplomacy. One of his avid interests is discussing public affairs.

Robert Walter Stephan
Tau Beta Pi; A. I. E. E.

A valuable asset to any lab group and an expert at pinochle, Stef is dexterous and talented. He is quick to greet his friends with a warm smile. Ever co-operative, Stef is ready to give a helpful hand at any time.

Frank Raymond Stoj

Frank is a man who will always have something to say on any subject. He can form an opinion and discuss it at a moment's notice. In some little corner of his vast background Frank can always find a situation similar to the one at hand; thus, he has a store of ready reference material for every occasion. Frank is also one of the few men in the class with a new car. If we all could have but that!

Albert Watts Stoltey
Tau Beta Pi; Chairman, Tau Beta Pi Instructor Rating Committee; Section Representative; A. I. E. E.; N. C. E. Christian Fellowship.

Al's background and personality are reflected in his activities at the college. His extracurricular duties range from acting as section representative to chairman of the Tau Beta Pi Instructor Rating Program. All of his classmates have found him to be an ideal friend, students, and gentleman, all of which are the fundamental requirements of an engineer.
Gene John Szalapski
Tau Beta Pi; Section Representative; A. I. E. E.; Bridge Club; Chairman, Senior Class Day.

Gene was one of the class "cut-ups." His bubbling spirits never seemed to allow him to be still. His record of achievement at the college is among the best scholastically and socially. In terms of service to his class he is outstanding. Gene received excellent marks with little apparent effort. He will be remembered as the man who always had a ready quip.

Theodore Edward Tajkowski
Secretary-Treasurer, Radio Club; A. I. E. E.; I. R. E.

Efficient and hard-working Ted is the President of the Radio Club. He has gained a great deal of experience operating his own "ham" station, W2NW A. Unassuming and competent, he has gained the admiration and respect of all who know him.

Louis M. Tozzi
Section Representative; I. R. E.

A resourceful student, Louis could easily be voted the most gentlemanly student in his class. He has an excellent knowledge of all phases of electrical engineering, especially the one dealing with communications. He has demonstrated this ability on numerous occasions in the laboratory and in discussions on technical subjects.

Arnold L. Trenn
Trustee, Radio Club; A. I. E. E.; I. R. E.

Very sincere and eager to learn, Arnold is a serious student who is determined and capable of reaching whatever goal he sets for himself. A rabid radio "ham", he is an active member of the school's Radio Club, and holds the office of trustee. He is N.C.E.'s "educated bricklayer."
Henry Voorman

House Chairman and Second Counselor, Sigma Pi.

One of the most important attributes a person can have is frankness with a touch of quiet modesty. This description fits Hank perfectly. Last summer Hank joined the select group, "Husbands of N.C.E." by taking unto himself a wife. Hank will long be remembered by all who served class time with him as the fellow who spoke his mind freely and sincerely.

Thomas Winship, Jr.


Tom, a cooperative and personable fellow, takes his education seriously. When he has committed himself to a task he may be relied upon to carry it through to a successful conclusion. Besides his membership in the student societies relative to his class work, Tom is an active participant in the activities of his fraternity.

Joseph Vincent Weigle

A. I. E. E.; Honors Option, Junior; Dance Club.

Joe successfully overcame the major social handicap of all electrical engineering students — electrical lab reports. Thus, when most of the boys spent sad nights with tube and circuit problems, Joe danced away many happy evenings at the Y.M.C.A. Co-Ed Club and enjoyed weekends golfing, bowling, and playing tennis. Joe is active in the Officers’ Reserve Air Corps, in which he holds the rank of Captain.

Henry Charles Waltke

President, N. C. E. Christian Fellowship; Interclub Council; A. I. E. E.; I. R. E.

Henry’s co-operative spirit, coupled with patience, makes him a valuable member to any group. He is neat in appearance, professional in attitude, and well-mannered. His interest in his fellow man is shown by his leadership efforts in the Christian Fellowship. Henry’s latest interest was climaxed by his engagement during his senior year.
Joseph T. Wintermute

Joe is an outdoorsman even when indoors. His first move in the classroom is always to open a window; his weekends frequently are spent on overnight camping trips. Electrical problems are Joe’s specialty, and he usually comes up with the correct answer in his inimitable manner.

Peter Zankanycz
A. I. E. E.; I. R. E.

Pete is a friendly and cheerful fellow. An ex-serviceman, he served in the Radar Division of the army. Handling electronic equipment was easy for Pete because he is a “radio bug”. He is also known for the interesting products of his amateur photography.

Marcel Bernard Zucchino
A. I. E. E.; Ski Club.

In reality, Marcel is a serious-minded individualist; however, he has a wry sense of humor, especially when he and Nelson cavort in class. Tennis, handball, and model railroading are his hobbies, but none reach his heart so much as skiing. Marcel has the distinction of being the only Ski Club member to break his leg before putting on his skis.
Maywood K. Asdal

Tau Beta Pi; Nucleus Staff; I.R.E.

Maywood may soon be serenading his wife, Doris, on the new electronic organ he is constructing. The organ, which embodies his own ideas and design, is the result of many hours of valuable spare time over a period of several years. His expert knowledge and skill in the electronic and electrical fields has been acquired from his extensive industrial experience.

Charles E. Babcock

I.R.E.

No one doubts Charlie's eagerness or desire to learn. Probably his most outstanding characteristic is his ability to express himself in a manner few people achieve. He especially added life to those classes where the opinion of the individual was the object of debate.

John Joseph James Kernahan

Tau Beta Pi.

John brings to the classroom the same serious concentration which he applies to his job as a Technical Staff Associate at the Bell Telephone Laboratories. A term of service in the Navy interrupted his schooling, but upon his return he quickly assumed a position of scholastic leadership in his class. One of his prize possessions is his Tau Beta Pi key.

John Hoffman Cutler

Tau Beta Pi; A.I.E.E.; I.R.E.; Sigma Pi; Visitors' Day Committee; Freshman Orientation Committee; Honors Option, Junior and Senior.

Appearing to be anything but a minister's son, John provides many a laugh and chuckle for the boys of Sigma Pi. His classmates know him for his booming, overmodulated voice which quite often fills the room. His incorporate 15-watt amplifier runs wide open most of the time but with minimum distortion.

It seems to John that everything is not as it should be and that a more elaborate pattern of nature is in order. He has questioned the veracity of Dr. Einstein's theories, and revision of some basic equations by the Doctor is expected shortly.

Robert W. Crosby

Student Council.

George Kuppler

Joseph M. Giannotto
"Formulae are not the entire answer."

PROFESSOR GEORGE B. THOM
Acting Chairman

PROFESSOR JEROME L. POLANER
Executive Associate

"I have had my car ten years and never had to make any repairs."

PROFESSOR GEORGE B. THOM
ACTING CHAIRMAN

PROFESSOR JEROME L. POLANER
EXECUTIVE ASSOCIATE
Famous Sayings

DOCTOR PERICLE A. CHIERI
"Huh!!"

DOCTOR WILHELM ORNSTEIN
"Make a problem and we'll analyze it a little bit."

PROFESSOR ROBERT E. BANNON
"I could make a razor that would last for years."

DOCTOR ANGELO J. PERNAt $\ldots y \underbar{(} \overline{y} \ldots$
$y \text{ at two } (y^2) \ldots$

PROF. THEODORE A. SCHNEIDER
"Well, we're not going into this too deeply."

PROFESSOR C. JAMES CAGNONI
"If you can't come up to my level, I'll come down to yours."

PROFESSOR MILLARD F. PERRY
"According to Church . . ."

MR. FRANK E. ALTOZ
"I don't want to go over this again."

MR. MORRIS H. DESHOWITZ
"Read the book. It's in there."

MR. BERNARD H. HERSHKOWITZ
"All right, you guys, what's the enthalpy?"

MR. HERMAN SNYDER
"Dave's pickles have too much garlic."

MR. JAMES R. SUMMER
"I am a little rusty on this subject. My field is air conditioning."

MR. RAYMOND J. FLYNN
"It's obvious!!"

MR. PAUL L. WICKHAM
"It's only a rehash of the book."

MR. EDWARD MILLER
"I have here information about the P. E. exams."

PROFESSOR LEROY S. OLSEN
"I can't understand how seniors can be so stupid."
Stanley Augustus Anderson, Jr.
A. S. M. E.

Stan is a rugged commuter who hails from Oldwick, way out in the country. He is an ardent outdoor enthusiast who spends his weekends in the fall hunting everything from ducks to deer. A personable fellow, Stan always has time for a chat with his friends.

Marvin Adelberg
Secretary Treasurer, Ski Club; A. S. M. E.; Bridge Club; Dance Club; Honors Option, Junior and Senior.

Marv is a well-trained fellow who'll go anywhere at the drop of a "maybe". He has seen parts of Canada, Mexico, and the United States and is anxious to see more. Primarily an outdoors man, Marv likes skiing, water sports, and fishing in that order; nevertheless, he also excels in the social graces—dancing and bridge. Blessed with a healthy curiosity, he is ready and willing to do anything new.

John James Albanes
Tau Beta Pi; Corresponding Secretary, A. S. M. E.; S. A. M.; Epsilon Phi Sigma.

An influential man with a pleasing personality, John is cooperative, diligent, and honest. By means of his social and extracurricular activities, he has become one of the pillars of the Class of 1950. A person of his caliber is an asset to our class. A business-like manner, an industrious attitude, and a willingness to cooperate—that's John.

Richard T. Alpaugh
A. S. M. E.; Sigma Pi.

Dick is recognized by the distinguished looking hats he wears. He is an ardent baseball fan, especially when the Yanks are involved. Dick spends lunch hours with his brothers of Sigma Pi at the fraternity house. A bowling fan, he helped his team in capturing the Interfraternity Bowling Championship.

Stanley Augustus Anderson, Jr.
A. S. M. E.

Stan is a rugged commuter who hails from Oldwick, way out in the country. He is an ardent outdoor enthusiast who spends his weekends in the fall hunting everything from ducks to deer. A personable fellow, Stan always has time for a chat with his friends.
**Adolf Attermann**

Vice Consul, Tau Delta Phi; A. S. M. E.; S. A. M.; Table Tennis; Intramural Basketball.

Al will always be remembered as the person ever ready for conversation whether the subject centered about a particular class problem, a recent news event, or a pretty girl. His discreet taste for clothes, neatness, and good manners were only overshadowed by his amicable and obliging attitude which initiated many lasting friendships. Al is probably the only fellow in the entire class who was so consistently betrayed by the figures on his slide rule.

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**Ralph Kenneth Berckart**

A. S. M. E.

Possessing a keen mind, Ralph has a cordial attitude and a professional approach. Perhaps his flavored expressions account for his many friends and their respect for him. His earnest desire to help others is another of his outstanding attributes. If he is not working at the service station or tinkering with his Chevy, you will probably find Ralph rounding out his weekends watching a ball game.

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**Joseph John Basile**

A. S. M. E.; Section Representative.

Interested in social activities as well as academic ones, Joe has amiably undertaken his collegiate responsibilities. He is seldom seen without George Hennessey, discussing affairs of the school, the state, and the heart. Mary and he will undoubtedly end as a unit.

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**Edmond Z. Berdela**

President A. A.; President Swimming and Rifle Club; Student Council Activity Key; A. A. Award; N. C. E. Emblem; A. S. M. E.; S. A. M.; Ping-Pong, Yacht and Ski Club; Intramural Basketball, Softball.

We have always wondered how Ed found time to engage in so many activities and still get his work done. Recipient of the Student Council Activity Key, Ed is one of the most active members of our class. His dependability and willingness to assume responsibility mark him as a leader, while his genial manner and cooperative spirit make him a true friend.
Franklin Blou

Student Council.

Ben is not like the average student, for he starts thinking where most people stop. To say that he is a philosopher is a conservative statement; to say that he is a student of the human mind is nearer the truth. Having already found "the girl of his dreams", he now confines his ambitions to apply his imagination and ideas to labor-saving devices. His motto is: "Overlooking the facts does not alter them; knowledge changes, truth does not."
William A. Bohnert
A. S. M. E.; N. T. S. F.

Perseverance and a sense of humor have been Bill's assets in the conquest of a degree. Besides working in the Engineering Department of Westinghouse Electric Corporation, Bill supervises an enterprise of his own — the ownership of weight scales distributed throughout Hudson and Essex Counties. Bill has become a safer driver since last summer as a result of his marriage. He doesn't rush to West New York after class on Wednesday evening.

Roy F. Brown
A. S. M. E.; Class Council; Intramural Basketball.

Roy is a man of learning, prudent, just and fit to trust. He has won himself the nickname of "Mr. Management" by his conservative policies. A firm believer in "rugged individualism" and "Horatio Alger", we feel that Roy will someday achieve the title of "Mr. Management" in reality. In his spare time he can be found reading a good book or piloting those C-47's at Floyd Bennet Field, where he serves as a Captain in the Air Force Reserve.

Millard Cummings Boyd
I. S. A.; A. S. M. E.

Bill is more at home in an airplane than in his own bed. An active member of the Instrument Society of America, he has been employed in the instrument department of a large oil company for the past thirteen years.

James H. Brown
A. S. M. E.; Honors Option.

Jim is a scholar par excellence, as evidenced by his academic achievements. A dignified demeanor, a professional attitude, and an ability to adapt himself to any group will make him a valuable acquisition to any company.
William Christian Bruhn

Formerly a practical shop man, William has achieved the position of layout draftsman for elevators with the Westinghouse Electric Corporation. His firm recognized his conscientious character and qualifications since he acquired the major portion of his education in evening schools.

Eugene Bundas

A. S. M. E.; Intramural Basketball.

Having spent four years at our next-door neighbor, Central High School, Gene is very familiar with the surroundings of NCE. A real outdoorsman, he is ready to forget his class work as soon as the hunting and fishing seasons begin. Gene is mum about women, but his ideas on designing probably extend to the fair sex also.

James D. Buttolph

President S. A. M.; Vice President, I. R. E.; Secretary, P. S. C.; Secretary, Delta Epsilon; A. S. M. E.; Nucleus Sports Staff; Technician News Staff; Radio Club.

Jim has the distinction of receiving degrees in both mechanical and electrical engineering. However, his academic efforts have not prevented him from taking a leading role in college affairs, as evidenced by his record of achievement presiding over the S.A.M. and his active interest in radio and journalism.

Walter Thomas Buy

Section Representative; A. S. M. E.; S. A. M.; Nucleus Staff; Ring Committee, Senior Dance Committee.

Walt is a big fellow with a deep resonant voice. These qualities, plus his love of a good discussion, make him an outstanding figure wherever he goes. In fact, one unnamed English professor was so far moved as to term Walt “The Loyal Opposition.” Walt estimates that his engineering education has cost him 30,000 miles of travel through his commuting from Plainfield.
Peter J. Carr

A. S. M. E.

Pete is employed as a Power Plant Equipment Application Engineer at Worthington Pump. (Translated, this means the lad sells pumps.) Always a happy and lucky fellow, Pete carries in his wallet the photo of his very pretty new wife. Classmates always enjoyed Pete's extremely ready and hearty laugh and his anecdotes of experiences in the Cavalry of the U. S. Army.

John J. Carrona

A. S. M. E.; Honors Option, Junior and Seniors.

J. J.’s exceptional personality, high academic record, and sartorial elegance place him among the outstanding members of the class. As a member of the Air Force, he developed traits of leadership and was a gentleman, without the aid of an Act of Congress.

Harry Cast

A. S. M. E.

A cigar-smoking vet from South Jersey way, Harry migrated into the Metropolitan area to attend college. At this point he doesn’t know whether to go into business or to work for a living. A serious mind and a sense of humor will aid Harry in whatever livelihood he chooses.

Martin Blair Chase

Nu Chi Epsilon; Treasurer, A. A.; Varsity Basketball; Technician Staff; A. S. M. E.; S. A. M.; Club Co-ordinator; Intramural Basketball.

Recalling Marty to mind will never be difficult. His participation in so many college activities, his brand of subtle humor, and his energetic nature have gained for him the respect and the friendship of his classmates. Always an honest and conscientious worker, Marty has consistently shown proof of his leadership abilities.
Michael Chorniewy
Secretary, Treasurer, Bowling League; Trustee, P. A. L. organization; A. S. M. E.

Mike is the guy who never did any homework on Tuesday nights. He was too busy hitting "200" on the bowling alleys. A real outdoorsman, Mike excels in ice skating and skiing. Matrimonially speaking, he is headed for the fatal plunge after graduation. With this added responsibility, Mike has an incentive.

Edward Cipoletti
A. S. M. E.; S. A. M.

A fellow who is always welcomed into every group, Ed is noted for his deep sincerity and relentless energy. He inevitably may be found using his practical ability to help others with their problems. His membership in several professional societies has prepared him for many phases of industry.

John Cooper Clayton
A. S. M. E.

John is one of the more reserved members of the class, but his inquisitive attitude and quick wit are continually filling his mind with new ideas. Nevertheless, he knows what he wants, and we firmly believe that he will accomplish his goal because of his determination and initiative.

Eugene Clifford
A. S. M. E.

Gene Clifford's combined artistic ability and sense of humor have enabled him to produce incisive caricatures of those who have incurred his wrath. In addition to keeping the class in stitches with his cartoons, his writing ability and intelligent perception of world affairs have produced many essays worthy of note. As many of his fellow students know, Gene is an ardent tropical fish enthusiast.
Douglas R. Cobb
A. S. M. E.; Nucleus Advertising Staff.

Doug Cobb is a quiet, yet effective fellow who makes his presence felt wherever he is. A member of the Cobb-Painter-Shelton inseparables, his good humor and wry jokes made him very popular. A good student, who wouldn’t be caught admitting it, he is certainly a creditable part of the 1950 class.

Isadore Cohn
A. S. M. E.

Isadore has the reputation of asking serious, well-thought-out questions. Willing to work, cooperative, and able, he is a welcomed addition to any circle—academic or social. He succeeds in stimulating group activity.

William Frederick Cramer, Jr.
Manager Basketball Team; A. S. M. E.

A diligent, painstaking worker, Bill likes to get things done and have a good time while doing them. Often he can be heard to say, “I don’t want to be a big gun, just a little pistol!” He has an intense desire for the better things in life and an ability to organize his work or any kind of activity.

Russell Louis Cross
Tau Beta Pi; Sigma Pi; A. S. M. E.; Honors Option, Sophomore and Junior.

Remember Russ as the top man on the curve, for his extensive supply of pens and pencils, spray painting, the beautiful job he did on his Tau Beta Pi key, his low resistance to gadget and machinery sales, and the numerous cups of coffee he consumed. He is a tough man to keep up with but an easy one to get along with—a real pace setter.
Richard Paul Cuny  
A. S. M. E.; Intramural Basketball.

Dick, the longer half of the Lipschultz-Cuny combine, is a rabid outdoors man as well as an all-around athlete. His smartly dressed, tall-dark-and-handsome appearance makes him quite attractive to the females. Dick has considerable industrial experience in addition to natural engineering ability, and his well-balanced talents make him a much-sought-after person.

Anthony Frank Cuoco  
Vice President, S. A. M.; A. S. M. E.; S. A. M.

Tony is that smiling lad who can always be distinguished by his distinctive suits and flashy ties. He is a hard worker who always finishes a job quickly. His keen interest in the responsibilities of management can be seen in his extracurricular work where he has developed initiative, resourcefulness, and organizational talents.

Hrant Dalalian  
Treasurer Alpha Sigma Phi; A. S. M. E.

Hrant has sociability, a warm personality, and a knack to learn quickly and well. His work for his fraternity has demonstrated his interest in the welfare of the college—its students, alumni, and faculty. Poised, affable, and diligent, Hrant will find an ease in his love—aeronautics.

Eugene D’Altrui  
A. S. M. E.; Glee Club; Intramural Softball.

If you had to cry on somebody’s shoulder, you couldn’t find a better source of sympathy than “Dal.” Although well entrenched within the bonds of matrimony, Gene still found time to play softball and take part in the activities of the Glee Club. His earnestness and sincerity have left a well-earned impression of dependability with his fellow students.
Samuel Davelman
A. S. M. E.

Sam can be spotted out in a crowd by his gray pin-striped suit, pink shirt, and lavender tie. It is rumored around that his wife does the shopping in his family. Sam is a conscientious individual who approaches his work with a thoroughness that has made him an asset to many a lab group. A subject has not been found on which Sam can not cite a few interesting cases. His explanation of this reservoir of knowledge of current events is “I read the newspapers.”

James M. Dennehy
Secretary, Alpha Sigma Phi; Technician Fraternity Staff; A. S. M. E.; Intramural Basketball, Softball, Bowling.

One of the real “flyboys” of our aeronautical program, Jim is still a pilot in good standing in the Air Corps Reserve. When not executing exciting aerial maneuvers, Jim has been known to dazzle his opponents with his fine play in the intramural basketball league.

Robert John Dickie, Jr.
A. S. M. E.; Alpha Sigma Phi.

Affectionately called “Hairless,” Bob is one of the foremost authorities on the “Return of Dixieland Music.” When not engrossed in collecting records of the last era, he can usually be found at the rifle range experimenting with muzzle-loaders. Quick-witted and a brilliant conversationalist on any subject, Bob has endeared himself to fellow members of Dave’s Coffee Club.

William H. Dickson
Tau Beta Pi; A. S. M. E.; Bridge Club; Honors Option, Junior.

Bill is a man of many talents. He has a nimble brain combined with clever fingers from which flow expert sketches and model trains. His quick wit is famous, being especially inspired in debate with English professors. Alloved with the quicksilver, however, is a friendly nature which makes him an all-around, popular person.
Harry L. Ettlinger
Advertising Staff, Nucleus; Section Representative; A. S. M. E.; S. A. M.; Bridge Club.

Anyone that has ever made a foolish mistake would appreciate having Harry around at all times. The thoroughness and accuracy with which this hard worker checks his work and others is a continual source of amazement to all. This quality plus his sincerity and keen mind will never let him down in either his private or his business life.

John Henry Doolin
A. S. M. E.; Bridge Club; Honors Option, Junior and Senior; Intramural Basketball.

John H. "Machine Design" Doolin is one of those rare all-around souls who combine both a fine personality with a clever mind. When John said something in class even the sleeping beauties in the last row perked up their ears to listen. His ability to solve Professor Olsen’s famous Machine Design tests can only be described as sheer genius.

Harold Martin Englund
A. S. M. E.

Although Harold spent a year at Newark State Teachers College, he has made many friends during his three years with us. A diligent worker and a lover of photography, Hal has chosen to do test and development work in the field of gas turbines and jet engines.

Arthur Robert Eppler
Tau Beta Pi; A. S. M. E.

Ever-smiling Art with the curly hair is an affable, happy-go-lucky personality. His proudest possession is a little fellow who looks just like his pop. Art’s college career was punctuated in the middle by a hitch in the Navy. For the last ten years he has been employed as tool, machine, and product designer of the Presto Lock Corporation.
David Norman Faber
A. S. M. E.; Ping-Pong Club; Bridge Club; Intramural Basketball.

"Dave" is the latest of a long line of Fabers at N.C.E. but has gained his own reputation among his friends for the soundness of his slumbers. He is one of those unfortunates who actually cannot fear an alarm clock. However, when he is awake and in school, his nonchalant attitude and easy-going manner makes his company a pleasure. In addition, he is a whiz at the ping pong table and terror on the basketball court.

Robert J. Faeser
A. S. M. E.; Intramural Softball.

Bob is a man with a smile for everyone and a sense of humor to match it. Perhaps this condition was due to the fact he was a much better than average student, but his grin was always there. A quiet fellow in class, his sparkling personality truly shone forth when he was engaged in conversation.

Kenneth Ragnar Fagerlund
Section Representative; A. S. M. E.; Bridge Club; Intramural Basketball.

Ken is one of those gay blades whose edges have been only slightly dulled by NCE life. His ribald tales of his adventures with women always both amused and amazed us. His ready smile and carefree spirit make him welcome anywhere. Proof that engineers have their artistic side is shown by Ken's virtuosity on the violin.

Donald John Fapiano
Tau Beta Pi; Nu Chi Epsilon; President Phi Beta Tau; Secretary, Treasurer, Bridge Club; Chairman, Senior Dance Committee; Section Representative; A. S. M. E.; I. F. C.; I. C. C.; Bridge Club; Interfraternity Bowling; Honors Option, Junior and Senior.

"Don" is a particularly intelligent and talented fellow, and his list of activities shows how much he has done for NCE and his class. He seldom worries about anything because he has no reason to worry. Don's assets are executive ability, musical talents, and an unruffled nature.
Charles Folkman
Section Representative; A. S. M. E.; A. S. T. E.

Charlie is a designer with Singer Engineering in Irvington. He is in the habit of spending the holiday between semesters in Florida and returning with a coat of tan that starts the rest of us wishing we were loaded too. A brand new 1949 model daughter may cramp his academic and social style for the next few seasons, but we feel that Charlie will use the philosophy "obstruction brings forth energy."

Donald Crissey Fardelmann

A sociable fellow, Don's mild manner seems to blend perfectly with the fact that he is the father of two children: Janet, three years, and Donald, Jr., eight months. The scholastic activities in which Don participates are a small part of his social interests. Don has an active interest in bowling, basketball, photography, football, camping, woodshop, and choir singing. His versatility indicates that Don's a remarkable personality.

Martin M. Feldman
A. S. M. E.; Received award from Honors Option Program; Intramural Basketball, Softball.

Keen wit and quick mind are synonymous with the name Martin Feldman. His sparkling sense of humor is a constant source of amusement and diversion to his instructors and classmates. His air of levity belies the fact that he actually has a serious interest in music, art, literature, and theater.

O. N. Thomas Fleig
President Alpha Sigma Phi; A. S. M. E.; I. A. S.

Whether it be a "bull session" or a problem session, Tom's presence adds to the success of the occasion because of his analytic ability and whole-hearted cooperation. Popular, congenial, handsome Tom served as president of Alpha Sigma Phi. This year his chest burst with pride as he handed out cigars and said, "It's a boy!"

Martin M. Feldman
A. S. M. E.; Received award from Honors Option Program; Intramural Basketball, Softball.

Keen wit and quick mind are synonymous with the name Martin Feldman. His sparkling sense of humor is a constant source of amusement and diversion to his instructors and classmates. His air of levity belies the fact that he actually has a serious interest in music, art, literature, and theater.

Charles Folkman
Section Representative; A. S. M. E.; A. S. T. E.

Charlie is a designer with Singer Engineering in Irvington. He is in the habit of spending the holiday between semesters in Florida and returning with a coat of tan that starts the rest of us wishing we were loaded too. A brand new 1949 model daughter may cramp his academic and social style for the next few seasons, but we feel that Charlie will use the philosophy "obstruction brings forth energy."
Robert Joseph Fraebel
A. S. M. E.

A ready smile, a cooperative nature, and an amiable manner make Bob a popular person in any circle. Bob usually divides his social activities between NCE and Drew, just to keep Lois happy. Amicable, professional, and always well-dressed—that's Bob.

Louis A. Frasca, Jr.
Section Representative; A. S. M. E.; Tennis Club; Golf Club; Honors Option, Junior and Senior; Intramural Basketball, Softball.

An honor student, a sportsman, and a class politician—Lou smiled throughout his four years of college. His talents make him feel at home on the golf course, on the basketball court, on the dance floor, in the classroom, or at the council meetings.

Philip G. Garrahan
First Counselor of Sigma Pi; A. S. M. E.; Intramural Bowling, Softball.

Phil's lively personality and an endless supply of amusing anecdotes have kept him surrounded by classmates whenever fellows got together. His role of comedian is better known, perhaps, but certainly not so noteworthy as his serious nature. In addition to keeping his fellow students happy, he has functioned as an ardent leader in fraternal activities and good fellowship.

Salvatore F. Gazzo
Section Representative; A. S. M. E.; Honors Option, Sophomore and Junior; Intramural Softball.

Ambitious and admired by all, Sal has acquired an enviable scholastic record. Making the Dean's List every year and his participation in the Honor's Option Program during his last year have established him academically. Intramural sports, as well as other extracurricular activities, have shown him to be an all-around student. Through his service in the Air Technical Service Command, Sal has gained much experience in aeronautical engineering.
Edwin W. Gerhardt
Section Representative; A. S. M. E.

Despite the fact that he entered NCE during his junior year, Ed is one of the most highly respected members of the class. When he makes an observation, one can be certain that it is accurate, penetrating, and thorough. Neat, orderly, perceptive—he has rendered us valuable service by his skill in amateur photography and by his interest in class affairs.

Herbert A. Gibson
A. S. M. E.

Herbie is the fellow who wore two ruts in the road between Jersey City and Martinsville. His Ford is standing up better now; he married the girl, moved to the farm, and commutes by stagecoach to his job as an estimator at Babcock and Wilcox. It has been rumored that Herbie’s moving from Jersey City and Mayor Hague’s fall from power are more than remotely connected.

Robert Gordon
A. S. M. E.; S. A. M.; President of Alpha Sigma Phi; Dance Committee; Golf Team, and Softball.

Bob is best known to us for his musical achievements which have brought us hours of pleasant enjoyment in the Alpha Sigma Phi and our class dances. An active fraternity man, he also participates in the A. S. M. E. meetings, despite the fact that he has the full time responsibilities of a father. Alpha Sigma Phi is proud of its past president and counts him as one of its most valuable assets.

John Joseph Gotsch
A. S. M. E.; Intramural Softball, Basketball.

Practical, reliable, industrious—John believes that a job should be well done or not at all. No neophyte in the field of engineering, he has had a few years of industrial experience as well as several in aeronautical engineering training in the Army Air Forces. John enjoys a good game of softball and basketball and appreciates and works for the welfare of American youth.
Gerald Granik

Tau Beta Pi; Honors Option.

If Ponce de Leon's search was in vain, it was due to the fact that he did not know Jerry. The appearance of his youthful face and ruffled locks proved to be a nemesis to professors who did not explain their subject with sufficient clarity. Jerry has that combination of "brain and brawn," which should insure him a successful career. As many of his fellow students know, his brawn was acquired through weight lifting. However, what many do not know is that he possesses a high degree of artistic ability which has even won him an art scholarship.

Frank S. Graziano

President, Ski Club; Section Representative; A.S.M.E.; Yacht Club; Intramural Softball, Basketball.

Frank is one-half of the well-known Graziano twins, and it is often a hard job to distinguish him from his brother. An active participant in indoor and outdoor sports, his success as president of the Ski Club demonstrates his athletic and leadership abilities. In planning skiing trips, Frank got the cooperation of almost everyone except the weather man.

Gasper Joseph Graziano

A.S.M.E.; Yacht Club; Ski Club; Intramural Basketball, Softball.

Gasper was the other half of the Graziano combine which appeared at NCE. An active out-of-doors man and lover of fresh air, he could never quite understand why his less hardy classmates sometimes objected to having a window open. However, we are positive that no one will ever object to his hearty spirit and cheerful disposition.

Jon Gulfo, Jr.


Jon, our professional man, is a member of seven professional societies. In addition, he holds a New Jersey State Professional Engineer's license as assistant plant engineer for Ortho Pharmaceutical Corporation at Raritan. Jon supervises the Maintenance Department, which entitles him to a night off from school once in a while because of "a plant breakdown." While usually serious, Jon has a sense of humor and a good knowledge of human relations.
Otto Hamberg

Tau Beta Pi; Literary Staff, Nucleus; Class Representative; A.S. M.E.; Honors Option, Junior and Senior.

Otto is one of the rare and gifted individuals who seldom becomes excited. His calm nature might be attributed to a deliberate and methodical thinking process which he employed with such regularity and frequency that he amassed a fortune in A's and B's. His willingness to share a laugh or an opinion on the solution of a complicated problem have won him the lasting friendship of all his classmates. Betty and he surely enjoy Broadway; their frequency at the theater has given them a familiarity with the arts.

Arthur Hansen

A. S. M. E.

Art is employed at Babcock and Wilcox. His studies at NCE were interrupted by a hitch in the Army. His main postwar project is a lovely new wife, who is the very successful operator of a beauty salon.

Edward R. Hanson

President Photography Club; Photography Editor Nucleus; Photography Editor Technician; N.C.E. Christian Fellowship; A.S. M.E.; Photography Club.

When one thinks of Ed Hanson, he immediately thinks of photography, for Ed and cameras went hand in hand. One was seldom without the other, and the combination produced excellent results. Besides being the Nucleus Photography Editor, Technician Photography Editor, and Photography Club President, Ed was also active in the NCE Christian Fellowship, as well as the professional societies.

John Jones Happell, Jr.

Section Representative; A.S. M.E.; S.A.M.; A.S.H.V.E.

A fierce warrior who wields a mean slide rule in any quiz, John constantly seeks to investigate all the phases of engineering problems. His favorite jacket of Sherwood green is a familiar sight seen darting from the library to Dave's, where he takes his coffee black to muster his strength for another quiz.
Spencer Harris
Tau Beta Pi; A. S. M. E.

Spence transferred to N.T.S. from the University of Maine in 1940. His jovial mood and quick wit have won him many friends. Ardent skiers, Spence and his wife can be found on snowy weekends slaloming down the hills that surround their Fayson Lakes home. A general tinker around the home and a gardener of ability, he makes an ideal husband.

George R. Hennessy
A. S. M. E.; Intramural Basketball.

George is really a man of accomplishment. Besides his skill in engineering, he is also a good husband and a very proud father. Has the achievement of all this tired George? Definitely not, for we find him always smiling, joking and raring to go, especially if it be to toss a few in the gym or to discuss a controversial subject with Joe.

Otto Hintz
Student Representative; Letter Varsity Basketball; A. S. M. E.; Ski Club; Intramural Softball, Basketball.

Big Ott is a "tower of strength" on the field of sport and in the classroom. He wastes few words but is always ready to help his classmates with their problems. His cooperative nature and professional attitude make him an asset to any group.

Robert Henry Hoermann
A. S. M. E.; Camera Club.

A ski enthusiast, a dabbler in photography, and a wine-maker in his own right, Bob is a conscientious student who may usually be found studying in the library. A man of few words, Bob is ever ready to greet his fellow students and his instructors with a warm hello.
Salvatore John Iacobucci
Intramural Basketball, Table Tennis.

With his colorful shirts and flashy ties, Sal is the most dapper dresser of the Evening Division. Within this bold look, one finds Sal serious and quiet. He is very enthusiastic about his latest job as project engineer with the Ben-dix Aviation Corporation.

Morris Jakel
President Student Council at Walter Hervey J. C.; A. S. M. E.

"Jake" is one of the best-liked members of our class. He is diligent and persevering. His humor is pointed, but never offensive. He has definite convictions about the sociological problems of our day, and he is ever willing to discuss them in an intelligent manner.

John H. Johansen
Section Representative; A. S. M. E.; S. A. M.

Seldom seen without a smile, good-natured John was everybody's friend. One of the many married men of the Class of '50, he came to NCE in his junior year from Bergen Junior College with a good scholastic record. Being an ambitious fellow both in and out of school, he not only did well with his school work, but also found the time to build his own summer home.

John A. Johnson
Student Representative; A. S. M. E.; Rifle Club; Ski Club; Intramural Basketball, Softball.

John may be quite accurately characterized as the strong, silent type of person. Whenever he made a contribution to any class discussion, it was generally some pertinent information on the subject. His sense of humor and willingness to work made it a pleasure to have him a member of your group when working in the laboratories. Besides being exemplary in his studies, John also found time to participate in intramural sports.
Seymour Kaplan
S. A. M.; Ski Club; Intramural Basketball, Softball.

Seymour’s extracurricular activities include basketball, softball, and skiing. A most ardent folk dancer, he can be found almost any Saturday night dancing madly with his “Red River Gal.” He will have little trouble while working for his Master’s degree because he is an adept student and has the ability to work well with others.

Jon Joseph Kark
President, Radio Club; Rho Epsilon; Radio Club.

If you need advice on how to fix the family radio, Jon is your man. Radio is both a business and a hobby with him. He is employed in the Sales Department of the Federal Telephone and Radio Corporation and operates an amateur station W2KBS. Between these activities he still has time to indulge in another hobby—photography, in which he makes both stills and movies.

Edwin A. Kleissler, Jr.
Assistant Business Manager of Nucleus; Treasurer, A.S.M.E.; Section Representative; S. A. M.; Technician Staff; Intramural Basketball, Softball.

Genial Ed, seemingly a procrastinator of the first water, has astounded all who know him with his promptness. Restricted only slightly by the NCE curriculum, his intellectual curiosity has led him to investigate subjects, the peculiarities of each of which he can recount with peerless humor.

Herbert Erich Knechtel
Student Representative; A. S. M. E.; Honors Option, Junior; Dance Club.

After the excitement of graduation is past and professors make way for “industry,” Herb will long be remembered by his friends as a good “Joe,” a likable guy who always gave his best in everything he did. Persistence and diligence though were kept in proportion, as Thursday night dances helped smooth over those Heat Power problems. When not “striking out” in the bowling league, Herb is fingerling through piano keys with equal ease.
Metro Kollar
Section Representative; A. S. M. E.; S. A. M. Honors Option, Junior.

If assiduity is a virtue, Metro is one of the most virtuous of students. His integrity and conscientiousness have made a lasting impression upon his associates. Fortified by an acute mind and pleasant disposition, his efforts in production and design should carry him far in this line. He has an uncanny knack to make friends and can usually be recognized discussing modern trends.

John Carver Koonz
Student Representative; A. S. M. E.; Intramural Basketball, Softball.

Fairhaired and fairminded, John typified the term “personality.” His intelligence, wit, and imagination, especially in Industrial Management, came to the fore time after time. We might say that he is the living example of what a NCE engineer should be.

Raymond Walter Koss
Tau Beta Pi; A. S. M. E.

Ray is one of the tall slide-rule artists who managed to withstand the load without becoming round-shouldered. His sedateness and affable character have made him well liked by his many associates and friends. High in scholastic ability, he still finds time for varied outside activities.

Sigmunt Jan Kremzner
A. S. M. E.; S. A. M.

When a new angle was needed, Sid was the man to see. His many contributions in the Staff Control sessions were “priceless” incidents. With a benign smile Sid walked through the corridors, displaying his vitality, amiability, and enthusiasm.
Kurt Kupferman
A. S. M. E.; S. A. M.; Senior Smoker Committee.

In spite of his outside responsibilities which include a wife, two sons, and a part-time job, Kurt was always cheerful and ready with a humorous remark. His poker-faced faculty-satire act at the Senior smoker was one of the outstanding events in the history of the Class of '50. Although he was a conscientious student, Kurt never lost his subtle sense of humor and could always be relied upon for an enlightening comment on any topic.

Robert Leslie Lawit
Vice President, Tau Beta Pi; Nu Chi Epsilon; Editor, Nucleus; President, Bridge Club; Varsity Tennis Team; Handbook columnist; A. S. M. E.; Dance Club; Intramural Sports; Honors Option.

Bob engaged in many activities guided always by the motto "Important things first." This, of course, gave bridge and tennis precedence, but a happy balance with academic studies was maintained. Blessed with a keen sense of humor, he specialized in an enjoyable cynicism, often called Lawitian because this philosophy was inimitable and distinctive.

Anthony Lehmann, Jr.
A. S. M. E.; S. A. M.

Besides a deep engineering interest, many outside activities occupy Tony's time. He is a dyed-in-the-wool trout fisherman, a rabid photography fan, and a basketball and baseball enthusiast. He spends his Saturdays and vacations working to finish the job of financing his way through college. As to the women in his life, Tony has just two words—"no comment."
Frank Peter Lessler
A. S. M. E.; S. A. M.

Frank has been successful in his work because of a steady determination to do an excellent job, regardless of the importance or triviality of it. A broad knowledge of the business world through practical experience and an ability to organize materials or people are two of his enviable characteristics.

James Herbert Leverett
A. S. M. E.; Varsity Basketball; Intramural Basketball.

A genial, friendly fellow who always enjoys a good laugh is our friend Herb. His athletic prowess, especially in basketball, made him one of the mainstays of NCE's team. His ambitions are to remain a bachelor, buy a convertible, and to go into business for himself. He blames his parents for any success or achievements because they were the driving force behind him.

Jack Clark Levergood
With the able assistance of his wife, Jack is building his own home in the wide open spaces near Flemington. To do this venture, his training at NCE, particularly in the course on structure should be an asset. Jack has a keen sense of humor and his comments are apropos at all times. In addition to his other accomplishments, Jack is associated with the Western Electric Company of Kearny as a standards engineer.

Robert Lipschultz
Club Coordinator; A. A.; A. S. M. E.; Intramural Basketball.

Bob, the shorter half of the Cuny-Lipschultz duo, has the gift of gab—a most desirable characteristic in any profession. Since his quick mind enabled him to get along with a minimum amount of effort, he was able to devote much of his time to swimming, basketball, and singing. His athletic activities made him one of the more popular students in the college.
Charles Lombaerde
Section Representative; A. S. M. E.

The fact that Charley uses all of his available time to the best advantage is reflected in his activities. His position as engine design draftsman for the Wright Aeronautical Corporation occupies his days, while school takes care of the evenings. Weekends are taken up with ski trips to the Catskills.

Nicholas John Lomboia
Section Representative; A. S. M. E.

Nick's extracurricular activities are his two boys, and who can blame him for being so proud of them? Just watch him strut with his charming wife and his "pride-and-joys" on the boardwalk in Asbury Park. An avid reader and a well-traveled scholar, Nick is conversant on a variety of topics. His artistic ability has helped many of our class functions to be successful.

Stan Heiser Loomis
A. S. M. E.

Whether in the "lab" or on the golf course, pounding the texts or pounding down a ski slope, Stan has the situation under control. His ability to inspire others with his own decisiveness and confidence makes him especially valuable in group work, in or out of the classroom. Stan is the nucleus of his large group of friends.

George Martin Loucas
Section Representative; A. S. M. E.; Intramural Baseball.

During his stay at NCE, George proved himself to be a conscientious and industrious young man. Through his understanding and cheerful ways, he acquired many new and lasting friends. George will always be found partaking in any "bull session" at the drop of a hat.
Charles John Machacek
A. S. M. E.; S. A. M.; Glee Club.

For four years he amazed his classmates by arriving on time for class. Considering the ancient car which provided his transportation, this was truly an outstanding feat. However, he maintains that it got him here, eventually, and cost so little to operate that he had no complaint. His only peeve was the inability of the instructors to pronounce his name.

Joseph P. Makowski
Section Representative; A. S. M. E.; S. A. M.; Technician Staff; Nucleus Staff.

Joe can be remembered as the neatest worker in the class. He undoubtedly has a collection of reports and problems worth framing. Besides showing great acquaintance for well-proportioned women, he is an avid car enthusiast. In class everyone enjoyed his sense of humor which, at unexpected times, would throw the class into an uproar. His dress is meticulous, his manner suave, and his personality is most likable. Joe enjoys entering radio and newspaper contests, drawing cartoons, and playing with his two-year-old son.

Fred A. Malizia
A. S. M. E.

While Fred is considered to be a hard worker by many of his fellow students, he still finds time for two very interesting hobbies—photography and music. In fact, Fred plays the clarinet with such persuasion that he was able to hypnotize a young lady long enough to sign her to a life-time attachment. Fred is both versatile and proficient.

Helmut Marum
Student Activity Committee; S. A. M.; A. S. M. E.; Phi Beta Tau; Bridge Club.

Helmut, whose favorite song is Brahms' Lullaby, can probably learn more with both eyes closed than most of us can while wide awake. His keen mathematical mind gained him the admiration of many of his fellow students. Helmut's amiable disposition and ready, toothy smile, even in moments of despair, indicate his positive philosophy of life.
James Mather
A. S. M. E.

Jim is the quiet, careful, conscientious worker whose progress is assured. His keen analytical ability is usually obscured by his conservatism; yet he is disgruntled sufficiently with modern engineering practices that we can expect him to present industry with some important innovations. Jim's tolerant and unassuming attitude has won the favor of his classmates while, more priceless than any of his other attributes, he has never forgotten how to laugh at himself.

Oscar Mauterer
Tau Beta Pi; Section Representative; A. S. M. E.; Phi Gamma Rho; Golf Club; Honors Option, Junior and Senior; Intramural Basketball.

Oscar is an easy fellow to spot in a crowd. If you don't see his six-foot-three frame, you can sell his pipe or stogie a mile away. A day on the golf course or on a ski slope with his wife is his favorite pastime. Oscar's outstanding scholastic ability belies his appearance of nonchalance. He is the kind of fellow who can get along with anybody and usually does.

William F. Maxwell
A. S. M. E.

Bill is one of the more taciturn members of our class, but his willingness to help, his sincerity and interest in all subjects, engineering and otherwise, and his subtle sense of humor all make us glad we know him. A hard worker, Bill is cooperative and helpful to all, while still maintaining an open mind to the ideas of others.

Otto Carl Mayer
A. S. M. E.; S. A. M.

In addition to his arduous efforts at college, Otto still finds time for many social activities which he enjoys with his charming wife, Romayne. Among their numerous mutual interests are skating, dancing, bowling, swimming, fishing, and music. Otto's industrial experiences as all-round machinist and layout man have given him a knack at woodworking and gadgeteering, while his well-groomed appearance and good naturedness have won him many friends in and out of school.
Leland Roy McCann, Jr.
Section Representative; A. S. M. E.

Lee despite his disarming manner radiates his friendliness to all. Whenever anyone wants to unload his troubles, Lee is always willing to show his helpfulness by listening patiently. He is another married man in the Class of 1950. As a senior class representative, he has consistently participated actively in behalf of his section.

David M. McGregor
A. S. M. E.

Dave's presence in the group has always added dignity to it. So far his Scottish leanness has been unaffected by the Smorgasbord that his Swedish girl friend feeds him; but as soon as the strain of classes are over, a change should take place in his stature.

John Thomas McNeilly
Section Representative; A. S. M. E.; S. A. M.; Intramural Basketball.

John comes by his Irish temper and wit naturally. He was a State Champion trackman and a member of a State Champion basketball team in his younger days. At school, his activities were divided among studies, wife and children, and basketball. John's interest in social welfare will probably lead into the Industrial Engineering Field.

John Anthony Melilli
S. A. M.; A. S. M. E.; Tennis Table Club; Intramural Softball, Table Tennis, Basketball.

After a brief fling at pre-medical school, John transferred to NCE. On any given Saturday morning our "medical" engineer may be found in a huddle with the "brain," Sal Gazzo, trying to decide which beauties are to be escorted this weekend. With his insight of social understanding you can be sure of John's adroitness in these affairs.
Louis Robert Messing
A. S. M. E.

If you stop at Lou Messing's home some weekend, you are likely to find him preparing to go on one of his many fresh or salt water fishing trips. If the weather is poor, he will probably be tying trout flies or painting a picture of a beautiful girl.

Cyril Meyers
A. S. M. E.; Honors Option, Junior.

Cy is probably one of the youngest members of the senior class. This fact coupled with his jovial manner and good humor contributes much towards enlightening classroom discussions. An Honors Option student, he is also active in local Y. M. H. A. sports. Among his many hobbies are stamp collecting, cooking, and selling shoes at A. S. Beck's.

Steven J. Mikula
A. S. M. E.

At the drop of a hood Steve is ready to defend General Motors to the last car of the assembly line. His specialty is the true-false quiz, and instructors have yet to pose a question that Steve cannot answer "true" or "false." New responsibilities arrived at the start of his senior year, for now he studies twice as hard hoping that some will rub off on his daughter Janet. Steve is an expert on the use of the "gripe" but is also quick to hand the "crying towel" to the next man, but all this is done with his typical good humor.

William Edward Miller
A. S. M. E.

Bill's experience as an instrument maker for the Western Union Telegraph Company for the past fifteen years is reflected in his methodical and detailed approach to any problem which he may attack. His efforts are profitable to the papermakers, for he uses reams of the same in his solutions. Bill is looking forward to days following graduation when he can spend more time with his wife and two young boys.
Robert Clarence Myers
A. S. M. E.; Intramural Softball.

Bob is that good looking fellow whose crew-cut and ever-ready sense of humor have won him many friends at NCE. His systematic methods and persistence usually result in the successful completion of his undertakings. Much of Bob’s spare time out of school is spent with Gloria with whom he has been seen at many school dances.

Warren Theodore Olde
Section Representative; A. S. M. E.; Intramural Basketball.

Warren, a First Lieutenant in the U. S. Air Force, is as neat and dependable a fellow as you will ever meet. “Hey, Warren, let me see your notes!” is a common cry heard in the halls. When Warren is not taking care of his son, he can be found playing basketball or flying. How this active fellow ever got his homework done is a puzzle to his many friends.

Norman Westin O’Rorke
A. S. M. E.

“Let us not fight,” said Mr. O’Brien to O’Rorke in the freshman year; there are too few of us, so Norm took the admonition to heart. His amiability, dependability, and honesty are his outstanding characteristics. In a discussion he will be sure to add valuable information gained through his work with Naval Ordinance.

Ferdinand Robert Pabst
A. S. M. E.

After two years at Fairleigh Dickinson College, Ferd transferred to NCE and managed to more than hold his own with the rest of the unfortunates for the final two years. Originally a much-sought-after man at NCE, his popularity diminished considerably when it became generally known that he was not related to the more famous Pabst people. However, this never discouraged the many real friends that Ferd made in school.
Harry William Painter
A. S. M. E.; Intramural Basketball, Nucleus Staff.

Although much of “his time” is consumed in commuting between the college and Dover, Willie has been able to make many friends at school. This clean-cut fellow is well known for his tenacity, and we feel sure that this quality plus his personable nature will always serve him well. His job as advertising manager shows his salesmanlike qualities.

Andrew Joseph Palso
A. S. M. E.

Andy is that well-dressed fellow with a broad grin. He is probably the only student of NCE who never has come to class needing a shave. Andy was usually so quiet in class as to give the impression that he listened to the lectures. However, during the informal lunch-hour discussions in the cafeteria, his quiet manner sublimated itself, and Andy always could find a few words to say, be it on classroom topics or non-engineering subjects.

Joseph R. Pedrin
Secretary, A. S. M. E.; Section Representative; Ring Chairman; Senior Executive Board; Nucleus Feature Staff.

“Personality-plus”—that’s Joe. A chic dresser, an expert on orchid corsages, a National Guardsman, Joe has also proved to be a super-salesman as chairman of the Senior Ring Committee, Ethel and he have added glamor and grace to our dances.

Herbert M. Perkins
A. S. M. E.; Nucleus Art Staff, Senior Smoker Committee.

Herb is one of the class wits aided not a little by his talent for drawing. As a behind-the-scenes man for the Senior Smoker, he will go down in history. On the scholarly side, Herb can be counted on always to have the assigned work completed on time, and it is usually correct. Without setting it on fire, he plans to do his bit toward making this a better world.
Kurt F. Peter
Tau Beta Pi; A. S. M. E.

Kurt is Assistant Manager of the Engineering Department at Walter Kidde, having risen from the job as blueprinter. He spent one year with the Army in a Tank Destroyer Unit. His favorite topics of conversation are his two small daughters and his home, which he is constantly working to improve. His older daughter is being graduated this spring from her daddy’s Alma Mater. P. S. She’s graduating from kindergarten.

James Petro
Class Representative; I. F. C. Council; A. S. M. E.; Alpha Sigma Phi; Honors Option, Sophomore and Junior; Intramural Bowling, Softball; Ring Committee.

James can always be depended upon to give an air of practicality to a technical discussion. Given any subject, Jim can cite an illustrative case from industry, where he has had considerable experience. His pleasant personality and intelligent manner of attacking a problem are sure to make him an asset to any company.

Edward Francis Pietal
A. S. M. E.

Our ambassador from Jersey City—that’s Ed Pietal. Ed came to NCE from a junior college and weathered the transition with no difficulties. At first he lamented the comparative lack of social activities but soon found compensation by adopting a rigorous schedule of pinochle playing. Ed is an easy-going fellow with a good sense of humor, who finds time away from his studies to devote to his wife and his growing collection of classical records.

Joseph William Poliseo
Recording Secretary, Tau Beta Pi; Nucleus Circulation Manager; A. S. M. E.

Joe is one of our outstanding advertisements for the state of matrimony. He proudly presents his two-year-old son as evidence that marriage is a blessing, not a band. An Army veteran, Joe has a wonderful disposition and an appreciation of good humor. As the Circulation Manager of the Nucleus and one of the pillars of Tau Beta Pi, Joe has exhibited an ability and an energy that will make him a leader in any situation.
George J. Prohazka
Section Representative; A. S. M. E.

George is a poetic as well as a practical person. As a result, he gets as much pleasure out of work as he does from play. His favorite pastime is trying to explain human nature although he is far more successful at explaining mechanics problems. His pride and joy is his old green “chevvy” that runs like a clock, even though it is fifteen years old.

Edward James Ramsay
A. S. M. E.; Honors Option, Junior; Intramural Basketball.

“Little Red”, one of the Jersey City gang, is one of the youngest members of our class. Well known for his abilities in the field of Heat Power, he seems to have developed advanced methods of getting work done with a minimum amount of effort. High marks and outstanding appearance are two of his assets, and his early start in industry gives him plenty of time to reach the top.

William George Rausch
A. S. M. E.; Intramural Basketball.

Bill’s height has been an asset to his basketball squad. His unruffled manner adds an air of dignity to any group he participates in. A devil-may-care smile is one of his charms as far as the females are concerned.

Paul Frederick Reibel, Jr.
Vice President, Alpha Sigma Phi; Secretary, Alpha Sigma Phi; Section Representative; A. S. M. E.; Intramural Softball, Basketball.

Beneath Paul’s gay imperturbability lies a deeply sensitive soul and an earnest, sincere desire to explore the unknown. Although his curiosity may have been the despair of teachers, many of us benefited from his questioning nature. His appearance is belied by the naivete that those of us who knew him well could detect. Paul’s love of fun and pranks offered a welcome diversion from the rigorous program offered by NCE.
Warren Alfred Reider

No class would be complete without the pleasing personality of Reider. "Still water runs deep" aptly describes his make-up, for he is an easy-going fellow with plenty on the ball. The ties he wears kept his section in constant dizziness. His social activities include bowling, women, and dancing—when time permits.

John Joseph Reilly, Jr.
A. S. M. E.; S. A. M.; Alpha Sigma Phi.

John's chief devotion is to the new Oldsmobile convertible he has recently acquired and to Alpha Sigma Phi Fraternity. As can be seen above, John's free time is well spent. Dignified, friendly, and always helpful, John can be depended upon in any undertaking for whatever aid he can give.

Donald Robertson
Section Representative; A. S. M. E.; S. A. M.; Wrestling Club; Chairman, Senior Smoker Committee.

Don's presence at NCE was such that he will long be remembered by many. He was voted the most collegiate in the class of 1950; and regardless of what Don may say, a major contributing factor was his liking for bow ties. As the chairman of the Senior Smoker Committee, Don was largely responsible for the most successful smoker held by his class.

Henry M. Rogers, Jr.
A. S. M. E.

Hank can always be relied upon to liven any class group. A keen electronics man, he made the choice of Mechanical Engineering, based on a desire to broaden his background by coordinating the mechanical and electrical fields. Henry's pleasant personality and hearty laugh will be well remembered by his fellow students and will prove a boon to him socially.
John Robert Rossmeissl
A. S. M. E.

John is an unobtrusive individual who approaches his studies with a seriousness that is characteristic of the married members of the class. He can always be depended upon to have his work done, and with a thoroughness that seems to indicate that Mrs. Rossmeissl is well versed in engineering principles. But there's never so much work that John can't find time to take his wife to the class dances for a pleasant evening with his classmates.

Frank J. Rostkowski
Vice President, Alpha Sigma Phi; A. S. M. E.

“Rusty” has that combination of personality and aggressiveness that makes him one of the leaders of his class. Perhaps his leadership is due to his service experience when he piloted a C-46 in the South Pacific. His leadership qualities were recognized when he was elected vice president of Alpha Sigma Phi. “Rusty” takes his flights to keep active with the Air Force Reserve.

Paul Albert Ruby

After many laborious years at night school, Paul decided to come days and finish up in one year. Before making the change he was quite a successful machine designer with a good deal of shop experience as a background. Paul's most difficult problem was to divide his time between homework and the many odd jobs that would always appear around the house.

Anthony J. Rynk
A. S. M. E.; Golf Club; Intramural Basketball, Softball.

A Navy veteran and one of the numerous family men of the Class of 1950, Rynk is known for his class quips and ever-present effervescent wit. Anyone who attended class with him is familiar with the inquisitiveness of Rynk and with the phrase “How d'ya figger?”, which stands out as typical Rynk coinage.
Francis W. Sarnecky

Francis admits that accomplishments never came easily, but his determination and ultimate success when extra effort was required, laid the foundation for his willingness to aid anyone who may be in need. Since his marriage, his former active participation in sports of all kinds has been restricted to calling "strikes and balls" in softball contests throughout Union County. Francis finds time to work as a design draftsman with Singer Sewing Machine Company of Elizabethport.

Frank Scalera

President, Delta Sigma Zeta; Secretary, Delta Sigma Zeta; A. S. M. E.; S. A. M.

Frank clearly demonstrated his scholastic ability by his attainment of good grades. That he also possessed ample social and leadership qualities was quickly recognized by the men in his fraternity, for they elected him to the office of secretary and then to the presidency. Going about his work quietly and efficiently, Frank showed the qualities of a dependable fellow and a good engineer.

Ernest John Charles Schirmer

A. S. M. E.

Ernie's three boys keep him well supplied with toys that require repair. The faithful service of his automobile can be contributed to his mechanical aptitude in making improvements. His initiative and ability in development work with the Westinghouse Electric Corporation was responsible for his engineer's status long before he completed his college education.

William John Shagawat

Senior Smoker Committee; A. S. M. E.; S. A. M.; Honors Option, Senior.

Besides his outstanding success in school studies, Bill has managed to become a successful family man, having a wife and two children. His hobbies include photography, gunsmithing, electroplating, and music, while his active church participation and his experience as a labor union president are another clue to his varied interests and abilities. Bill will always be liked for his high code of personal ethics and adherence to it.
Francis X. Shatynski
A. S. M. E.

His professional interests lie in the fields of engineering design and development. That Frank has some non-professional interests too is indicated by his participation in a choral society.

Frank Shelton
Section Representative; A. S. M. E.

"Frank" is the word that expresses Shelton completely. He is an example of the man of action who dislikes the slow subjects and wasn't afraid to express himself. A quick thinker who generally finished his quizzes before everybody else did and a vociferous fellow who was very well liked, he added pleasure in any classroom.

Bernard Frederick Shoopak
Section Representative; A. S. M. E.; S. A. M.

Bernie can readily be termed "the engineer"; whenever a problem stumped his classmates, it was Bernie who usually came up with the solution. His presence in class was rarely noticed, except when the results of a quiz were given. It was then that his coolness under pressure and his sound knowledge of the fundamentals were made evident.

Albert Sidun

Al is one of the "younger" night school students who is known for his ability to "needle" his friends, but he can take a joke about himself at anytime. For the last few years, we have "ribbed" him about his trailer home in Raritan Township. When Al finds any spare time from his duties as testing engineer at the Foster Wheeler Corporation, he invariably spends it playing touch football in the fall or tennis during the spring and summer.
Calvin C. Silverstein

Tau Beta Pi; Nu Chi Epsilon; Editor, Technician; Sports Editor, Nucleus; Section Representative; A.S.M.E.; Honors Option, Junior and Senior; Student Council.

Cal's amazing capacity for work and qualities of leadership have earned for him the respect of all of his classmates. Between editing the Technician and extensive participation in a variety of extracurricular activities, he has somehow found time to become one of the top students in the class. Although young in years, Cal has always exhibited the maturity found in older men.

Murray Jack Sklar

President, Tau Epsilon Phi; A.S.M.E.

One of Murray's proudest moments was the crowning of his wife, Harriet, as May Queen at our Sophomore Dance. Murray's popularity was proved when he was elected president of his fraternity. He is known for his ability to inspire confidence and to instill a fraternal feeling among groups.

Henry Richard Sochon

A.S.M.E.

It is said that no man who has passed through these portals was not without slight nor taunt during his school years. Above these plagues rose Henry with a self-assurance which was never to be questioned and which will serve him well as he departs from these halls of learning.

Douglas Alfred Solley, Jr.

Tau Beta Pi; Section Representative; Honors Option, Junior and Senior; Intramural Basketball.

One of the married veterans of our class, Doug has distinguished himself through superior scholarship. His engaging personality and his keen sense of humor have made him the center of many a gathering, and his expert performances of magic have highlighted our smokers. A natty dresser, a suave manner, and a glib tongue will help Doug to make a niche for himself in whatever field he chooses.
Michael Angelo Spalletta
A. S. M. E.; S. A. M.

When there was a problem to be solved or a formula to be derived, likely as not, Mike would be the one to get stuck with the assignment. He had the odd habit of unconsciously trying not to show what he had learned, and you had to pry information out of him. However, while doing so, you usually discovered that Mike knew considerably more about the subject than most students.

Egon Stark
A. S. M. E.

Egon is a tool-and-die engineer with a local plastics concern. He is unique among Evening Division students because he is unmarried (Lady readers, please note). This serious-faced chap can be found in his spare time, swimming, skiing, or piloting a put-put lawn mower on his Dad's half-acre lawn in Springfield.

Seymour Bernard Sternbach
A. S. M. E.

Tall, spirited, and always smiling, Seymour may be a model of the well-dressed student of NCE. If a job has to be done, give it to Sy. You'll find him helpful, cooperative, and amiable. His engagement to Roz broke into the society column of the Technician.

Robert F. Strauss
A. S. M. E.; Bridge Club; Intramural Basketball.

Quick-witted Bob is undoubtedly one of the best conversationalists of our class. Well-traveled, well-read, with an accurate memory for unusual details, and a sense of humor which occasionally compares with the greats in wit, he is ready and willing to discuss anything from sports to space travel. In spite of being an ardent bridge fan, Bob will undoubtedly add many more friends to his present collection before he makes an enemy.
Theodore R. Strauss
A. S. M. E.; Nucleus Staff.

Ted is well liked by his classmates for his willingness to cooperate and his good nature. He is a regular family man spending his spare time with his charming wife and adorable daughter viewing the new television set or taking photographs. After spending four years in the Air Force, Ted returned to the Wallace and Tiernan Products Corporation, where he is presently employed as a development engineer.

Joseph Andrew Szilasie
A. S. M. E.

Joe is a quiet, conscientious, and hard-working fellow. Though he may not have much to say, his personality is such that it has won him many staunch friends. Working every chance he gets, all year round, Joe is defraying his own college expenses, an achievement he can justly be proud of.

Alfred Francis Tassaro
Tau Beta Pi; Nu Chi Epsilon; Chairman, A. S. M. E.; Section Representative; Golf Club; Bridge Club; Ski Club; Honors Option; Intramural Softball, Basketball.

Al is tops in whatever endeavor he participates—in class, on the dance floor, at the gym, or on a platform. His experience in the service and in industry has been a desirable supplement to the theory of his courses. Unflinchingly and unstintingly Al will be of service and of guidance whenever he is needed.

Herbert Otto Trauth
A. S. M. E.; S. A. M.; Honors Option, Sophomore and Junior.

Herb has the ability to attain consistently high scholastic standing, to mix easily and cooperate with his fellow students, and to discharge responsibilities competently. With his sincerity and pleasing personality, he will continue to win the friendship and respect of his colleagues wherever he may go.
Peter P. Ushkaritys
A. S. M. E.

Pete is characterized by his ever-smiling, cheerful countenance; his friendship; and his good-natured ribbing. Having had an irregular program all through school, he was a difficult person to classify until M7E claimed him as a 100% senior. One of these days Peter’s cellar “laboratory” will be the birthplace of a revolutionary invention or development.

Paul Vander Wende
Section Representative; A. S. M. E.; Honors Option, Senior; Intramural Basketball, Softball.

Tall in height and tall in character, Paul was one of the few students who began their studies with practical engineering experience. Paul completed his apprenticeship and gained two years’ experience as a machine designer before transferring from NCE’s night school to the day school for his last two years. An active and diligent worker, Paul not only maintained an excellent scholastic record but found time for many outside activities.

Leon Michael Vojnik
A. S. M. E.; Intramural Basketball, Softball.

Leo is one of the many married veterans in the Class of 1950. He has always been considered as “one of the boys” and has eagerly offered his services whenever a section basketball or softball team or other class activity was being organized. Leo also took a serious attitude toward his studies and never hesitated to give his classmates expert advice based on his extensive industrial experience. Pinochle and deep-sea fishing are Leo’s favorite diversions.

Joseph Anthony Voltaggio
Section Representative; A. A.; A. S. M. E.; Intramural Basketball.

Married during his sophomore year, Joe is one of the more mature members in the class with a practical philosophy of life. Ever smiling and ever willing to cooperate, Joe reflects in his actions and words a happy state of wedded bliss. His optimism and cheerfulness add mellowness to any group or gathering.
Anthony Vuolo
Vice President, Senior Class; Section Representative; A. S. M. E.; Golf Club; Intramural Basketball and Softball, Senior Picnic Committee.

Always impeccably dressed, Tony is the personification of a business man or an executive. He knows what he wants and is determined and willing to work for it. His competence, balanced sense of values, and firm convictions have made him a valuable member of the class.

Harry C. Wain
Tau Beta Pi; Section Representative; A. S. M. E.; S. A. M.; Honors Option, Sophomore and Junior.

“But Professor, I don’t think that’s exactly correct.” And so another discussion between Harry and some instructor about some point in engineering theory or application got under way. However, his classmates will probably remember him for his good humor and seemingly inexhaustible supply of jokes and quips which helped brighten many an otherwise discouraging day.

Matthew Joseph Wall
A. S. M. E.; Student Council; Intramural Basketball, Softball.

Both in the classroom and in his quick-witted and aggressive play on the basketball court and softball field, Matty exhibits his possession of two important engineering attributes, intelligence and initiative.

William Watt
Section Representative; A. S. M. E.; Dance Club.

A fine blend of humor, curiosity, and common sense characterizes Bill. He is a fellow who acts by logic and reason, not by emotions, fears, or prejudices. His worldly desires are few but well thought out—wife, home, and two-car garage occupied by foreign sport cars. Professionally Bill’s creative desires are in the automotive field, and he has many ideas on the future American automobile.
Harold A. Wells, Jr.

Tau Beta Pi; Vice President, Senior Class of 1942 Newark Tech; Editor, Nightwatch, Class of 1942 Newark Tech; Section Representative Newark Tech.

Popularly known as "H. G." because of his famous last name, Harold's extracurricular activities would be a heap even for a day school student. After an interruption in his schooling to serve as an Air Force officer in China, he returned to the books to resume his position as a scholastic leader. Harold still gets a "bang" out of airplanes. Evidently he did not get enough outdoor life in the Army, for he and his wife usually spend their vacation in a tent.

Louis Frederick Wenisch

A. S. M. E.; S. A. M.; Photography Club; Golf Club; Dance Club; Intramural Baseball, Table Tennis, Basketball.

Lou is one of our best-known athletes. Active in many fields, he still found time to serve his classmates in the bookstore. A steady worker, Lou was always ready to lend a hand to his classmates. He deserves recognition for his smile which lasted four hard years.

Harold F. Werthwein

A. S. M. E.; S. A. M.; Golf Club; Intramural Softball.

In the spring Har's thoughts turn to golf. The first balmy spring day finds him out on one of the local courses chopping up the turf with Bob Graham. Other activities that usually take precedence over homework are bowling, softball, and hockey. After graduation Hal will devote his not inconsiderable talents to the railroad industry.

Clark Ramsey Wheeler

A. S. M. E.; Glee Club.

Six feet-three inches tall, silent but sincere, Clark always displayed a profound interest in his academic work. However, on weekends his interests more often turn to his "one and only." Besides singing, he is interested in model railroads and amateur photography.
George Wheeler
A. S. M. E.

George can usually be seen in the Commons playing a fast game of ping-pong. Here, as in the classroom, he shows his sportsmanship, friendliness, and perseverance. His cheerful countenance adds zest to his associates' confabs.

Harry W. Wickstrom
Section Representative; A. S. M. E.; S. A. M.; Intramural Basketball, Touch-Football.

Always jovial and carefree, Harry is a deep thinker and avid sports enthusiast. His ability to take things in stride has won him much friendship and admiration. Golf and Scandinavian folk dancing occupy his spare-time, and he excels in both.

Charles Widmer
A. S. M. E.

During his service career Charles was a meteorologist, but his present interest lies in design engineering, a field in which he has had experience. Happy-go-lucky but diligent, Charles enjoys a discussion in his philosophical manner.

R. Lee Wimmer

Lee works at the Seaboard Lamp Works, where he makes our tasks lighter and our futures brighter. He spent two years with the Navy during the war. Lee is a busy fellow in his spare time, hunting, boating, servicing radios for his friends, and doing a good job as an amateur photographer. The favorite model, of course, is his eight-month-old daughter.
Theodore Joseph Wirth
A. S. M. E.; Honors Option.

Ted has an expansive sense of humor and will furnish a hearty laugh for any well-told joke. However, he is a conscientious and efficient worker as evidenced by his many achievements. He is one of the few who were brave enough to venture into marriage while attending school. Most of Ted's spare time is spent with the Air Force Reserve.

William John Witte
A. S. M. E.

This good-natured senior is liked by all those who know him, for his friendly smile and cheery words have won him many friends. Bill's motto seems to be "Love me, love my pipe." This may be the reason why he has not joined the ranks of the married men of the Class of 1950.

Arthur August Wittendorfer
A. S. M. E.

Art left high school in 1935 and has seen the ways of the world. With his varied experiences behind him, he has taken engineering in his stride and is making it a major part of his life. He spends many hours buried in his textbooks, which makes him a trial to his charming wife. One of Art's major engineering problems was finding a parking space for his car. His success was a real indication of his capabilities.

Arthur H. Wnek
A. S. M. E.; Intramural Basketball.

Though very hesitant to mention his scholastic success, Art will readily discuss his principal avocations; an engineering library, sports in general, and ice skating and basketball in particular. Art will be remembered longest as being the most contented-looking fellow in the cafeteria, with pipe in hand and a smile on his face.
Stephen Albert Yaczko
American Welding Society.

"Last minute" Steve is consistently near the deadline whether it is for reports, for classes, or even for rushing his wife to the hospital for a new addition to the family. But don't think that he is lax! You will find him thorough and conscientious in his work; at time he can stump professors with his welding knowledge. He is an assistant welding engineer to the M. W. Kellogg Company of Jersey City.

Eugene W. Zelazny
A. S. M. E.; Alpha Sigma Phi; Intramural Basketball.

Always interested in social affairs, Gene could be found at almost every class and fraternal affair. He enjoys the Broadway shows and a fast game of basketball. Gene is indeed an assiduous and painstaking worker. His broad interests have given him a "joie de vivre."

Robert Stanley Zuchowski
A. S. M. E.; S. A. M.; Yacht Club; Golf Club; Ski Club.

A sports enthusiast on the links, on the water, or on the ground, Bob displays fair play at all times. Even-tempered, Bob is an emollient in any "red hot" discussion. His versatility in ability is supplemented by his tactfulness and poise.

Wilbur John Comerford
A. S. M. E.

"Slim" could always be counted upon to enliven Staff Control classes with his unique examples of "How to Make a Dollar." A married veteran and the father of a baby boy, he frequently worked many hours in addition to his studies in order to maintain his home. Will certainly deserves a hand for successfully overcoming the adverse conditions with which he was faced.

David Ramage Goodrich
A. S. M. E.

Dave is employed by the Du Pont Company in the Engineering Department. He is always ready to talk about his army experiences in Italy and Southern Europe. A photography hound, he spends a large amount of his spare time taking indoor motion pictures of his family.

John Digiroloamo
Vice Chairman, A. S. M. E.; Intramural Basketball.

Ronald Otto Nitzsche

Richard H. Koester
A. S. M. E.

Dick received a B.S. degree in Mechanical Engineering from N.C.E. in 1943. After having served three years in the Navy, he returned and continued his studies in the field of electricity. He is employed by the Propeller Division of the Curtis Wright Corporation. Dick takes pride in his ability to shoot straight with either camera or gun.

Frank Bagdon

David James Schmidt
A. S. M. E.; Sigma Pi.
Robert Henry Knittel
A.S.M.E.; Intramural Basketball,

Robert Henry Knittel was an honored and respected member of the Class of 1950. He passed away on March 5, 1950.

In Memoriam
non-
professional

+ \gamma^2 + z^2 = a^2
"This equation should balance now."

"Are you trying to teach me something?"

"When I was a boy in Cincinnati . . ."

"No questions, please. We have a lot to cover."

"Firmly, but gently, pour it down the drain."

"Well, . . . you might try that."

"B-1, uh! If I get past this section, I'll live through anything."

"Now what have we got here?"

"After teaching this class, I have decided I should have been a mason."

"Look at it this way . . ."
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DR. JAMES H. PITMAN
Chairman
“Didn’t you fellows receive your first assignment by mail?”

PROFESSOR FRANK A. GRAMMER
Executive Associate
“If you will, ah, . . .”

Famous Sayings

DR. FRANK M. DURKEE
“The driving force in international relations is POWER.”

PROFESSOR WARREN H. CRATER
“Now listen! In this class THIS is your point of view.”

PROFESSOR FREDERICK P. FERNSLER
“Your theme is great, tremendous, sparkling!”

PROFESSOR HERMAN A. ESTRIN
“What’s the matter with you fellows? Haven’t you any school spirit?”

MR. NELSON C. KEABLES
“Well, that could be true, too.”

MR. EDWARD F. JOHNSON
“Engineers are deadheads.”

MR. JAMES L. LUBIN
“Why do you need an Army and Navy when you have a Marine Corps?”

MR. JOHN T. SHAWCROSS
“One of the greats of all time is T. S. Elliot.”

MR. CHARLES F. FISHER
“A thing of beauty is a joy forever.”
Dr. Walter G. H. Ryan
"This so called . . ."

Mr. Galen T. Goewey
"I have a peculiar method of marking, depending on how many beans I ate for breakfast."

Mr. Irving R. Goldstein
"I'm sorry we can't talk about that; we're behind schedule."

Mr. Robert E. Kiehl
"I have a little skit that we can do."

Mr. Joseph A. Rich
"You didn't say that, you only said . . . ."

Mr. Leonard Bassoff
"If I'm going too fast, tell me."

Mr. Charles K. Ridge
"Tell it to the chaplain!"

Miss Helen E. Hildebrant
"This report is quite late."

Mr. Paul W. Nordt
"Who wants to get a few extra points?"

Mr. Leonard Noyes
"Big business to small business to civil service is a one-way street."

Mr. Henry W. Strong
"Do you have an appointment?"

Mr. Howard L. Davis
"An engineer is a person who finds out what to do before the people around him discover he doesn't know how to do it."

Mr. Gordon G. Holbrook
"This is the last shot in the locker."

Mr. D. Arthur Straight
"All-right gentleman, wait until you go in industry—you'll see!"
Famous Sayings

MR. HERBERT BARKAN
(Drawing crooked curve) “Whoops! Crooked boards.”

MR. LUCIEN P. BOWE
“Don’t do the problems you think you can do; work the ones you can’t do.”

MR. ROBERT K. HAUBNER
“I just told you about that!”

MR. EDWARD C. MOLINA
“Take my rigamarole . . .”

PROFESSOR JAMES H. FITHIAN
“. . . All right, second row to the board.”

PROFESSOR CARL KONOVE
“Think of it this way . . .”

DR. EDGAR P. VIRENE
“I’ll let you try a few of these.”

PROFESSOR HAROLD P. WASSON
“It’s a cute trick if you can do it.”

MR. JACK HELLER
“Try it and see if it works.”
Department of Physics

PROFESSOR PAUL O. HOFFMAN
Acting Chairman
"You are, perhaps, contradicting the laws of Newton?"

DR. ACHILLE CAPECELATRO
Executive Associate
"When I was working for the Navy, designing torpedoes..."

Famous Sayings

PROFESSOR BEDROSS KOSHKARIAN
"Who's responsible for this mess?"

PROFESSOR PAUL E. NIELSEN
"Always make a free-body diagram."

DR. IRVING P. ORENS
"God gets ninety-nine percent, I get one percent, and the students get the rest."

DR. CARL V. BERTSCH
"You play the game this way..."

DR. THOMAS H. BLISARD
"Mummmm...

PROFESSOR EIVIND G. F. RAMBERG
"I make mistakes on purpose just to see if you're awake."

PROFESSOR CHARLES H. DUURSEMA
"Express your answers in kip-feet."

PROFESSOR BERNARD A. GREENBAUM
"Sit down before you fall down, Junior!"

PROFESSOR MARCUS N. MAINARDI
"Take a piece of stuff, any stuff..."

PROFESSOR H. HUNTER SMITH
"I'm sorry, gentlemen, but I'll have to give a quiz."

DR. SHERMAN L. GERARD
"You don't have the homework? Do it now -- at the board!"

MR. JULIUS PORT
"Gentlemen!"

MR. JAMES SAGURTON
"Engineers are just frustrated physicists."

MR. JULIUS SHRENSEL
"You men will have to be a little quieter."

MR. MONROE R. WELLER
"Pay attention, you might learn something."

MR. ROBERT J. BRUCKER
"You men will have to learn the fundamentals."

MR. HARVEY J. LOWHURST
"I'm not here to teach algebra. You should have had it long ago."

MR. ABRAHAM J. OSOFSKY
"I could teach this in five minutes, but I doubt if you'd understand it."
Robertson plays hard to get.

The curve takes a beating. Let $f=\text{Coefficient of Friction}$ . . .

Service with a smile.

The heroines change, but the eyes roll on.

Any book will do.
Professional Societies Council

As a result of the confusion caused by the revival of professional society activities after the war years, the Professional Societies Council was formed. Composed of the president of each society represented at the college, the Council coordinates the activities of the societies into an integrated program designed to present the maximum advantages to the college as a whole. Under its direction the conflict of more than one event on any date has been eliminated, a single program of films has been arranged with equal support from all activities, and a semi-annual general meeting of the members of all the societies has been sponsored. In addition, the monthly discussions of the group aid in disseminating ideas which benefit all the member societies. The Council stands ready to assist any society or any individual member of a professional society in the solution of problems pertaining to professional activities.
American Chemical Society

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

At the College, activities include meetings, guest speakers, and an annual convention of the student affiliate chapters in the North Jersey Section, representing seven colleges in the area. These events provide an atmosphere of fellowship among members in the same field, promote an interest beyond that of academic subjects, and provide an opportunity for the expression of ideas, all of which serve to develop more fully the basic qualities which are prerequisites for the professional engineer.

President
ALBERT G. BUCK
Vice President
EDWARD F. WOOD
Secretary
IRWIN ADLER
Treasurer
WALTER BRAUN
Faculty Adviser
PROFESSOR JAMES A. BRADLEY
American Institute of Electrical Engineers

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

Meetings featuring prominent guest speakers and technical motion pictures were held frequently to acquaint the members with practical problems of the engineering profession. Field trips, such as the inspection of the Westinghouse Meter Division Plant and the Public Service Sewaren Generating Station, were also arranged during the past year. The chapter has successfully cooperated with other professional societies in holding joint sessions and in sponsoring activities of benefit and interest to members and non-members alike. "The Electrical Student Directory" and "The Introductory Tour of the Electrical Laboratory" were started this year for sophomores contemplating the electrical course.

Benefits of student membership in the national organization include automatic transfer to grade of Associate Member upon graduation, subscription to "Electrical Engineering", use of library facilities at National Headquarters, and attendance at student conventions held annually in each district.

President . . . . . . LUDWIG MUHLFELDER Secretary . . . . . . ARTHUR NICHOLS
Vice President . . . . . ALFRED GRAYDON Treasurer . . . . . . DAVID RODGER, JR.
Faculty Adviser . . . . . MR. CHARLES R. MOORE
The aim of the Student Chapter of the A.S.C.E. is to produce better civil engineers. This is accomplished by presenting practical applications of course material through guest speakers, by acquainting students with leading men in the field, and by introducing members to each other through social events. The chapter also prints the *Surveyor* and plans field trips.

In December, 1948, Split Rock Dam and Wanaque Reservoir were inspected by the chapter. In January, 1949, the civil students spent several days at the A.S.C.E. Convention in New York City. The student chapter conference was handled by NCE's William Mulder as chairman. One of the top social gatherings of the year was the annual picnic in May, where the class of '50 civils decisively defeated the graduating civils in a softball game.

During the summer many members held government positions—Seymour Selzer and Ray Spingarn in Denver, William Singleton in Wyoming, Don Dougherty in Washington, and Paul Kliminski and Wesley LaBaugh in Minnesota. Ernest Segesser and Al Buta held fellowships in Sanitary Engineering in Michigan; Paul Kliminski, Thomas Maguire, Ivan Metzger, and Richard May were at Camp Technology, the MIT surveying camp in Maine.

Membership in 1949-50 continued to include practically 100% of the junior and senior civils. Many interesting events were held or attended, among which were the 1950 A.S.C.E. Convention, a dance, field trips, and the annual picnic.

President  
RICHARD C. BUNTEN

Vice President  
PAUL J. KLIIMINSKI

Secretary  
HENRIETTA WOLF

Treasurer  
THOMAS A. MAGUIRE

Corresponding Secretary  
RICHARD W. MAYO

Faculty Adviser  
PROFESSOR JAMES M. ROBBINS
American Society of Mechanical Engineers

The object of the A.S.M.E. is to promote through its student chapters a professional spirit among its members and to provide a source of contact with practicing engineers.

That the Society has been successful in this respect is shown by the expansion of activities from year to year. The increased interest shown in its student members by the parent society indicates that participation in the activities of this society aids in the development of a well-integrated professional man.

Since its inception, the society has had outside speakers, plant visits, and participation in conventions as regular features. In the past few years, however, these activities have assumed a more cosmopolitan air. Inspection of the steel mills in Bethlehem, Pennsylvania; the Westinghouse Company in Philadelphia; and Consolidated Edison in New York have pushed our horizons beyond New Jersey. The annual convention in New York and the Student Regional Conference, held this year at New York University, attracted a good representation of NCE chapter members.

During the past year increased emphasis was placed upon the presentations of papers of a technical nature. A vote of thanks is due to the mechanical engineering staff and in particular Professor Olsen for the assistance and guidance given in establishing a competitive presentation at the chapter meetings. Papers of worth were entered in A. S. M. E. regional and national contests for further consideration. It is the hope of the retiring officers and committee members that this competition will find increased support and enthusiasm in future years.

Chairman . . . . . . . . . ALFRED F. TASSARO  
Vice Chairman (Night School) . RONALD O. NITZSCHE  
Vice Chairman . . . . . . KORT GORSHKOFF  
Treasurer . . . . . . . . . EDWIN A. KLEISER  
Recording Secretary . . . . . . . . JOSEPH PEDRIN  
Corresponding Secretary . . . . . . . JOHN ALBANES  
Honorary Chairman . . . PROFESSOR LEROY S. OLSEN
Society for the Advancement of Management

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

Students are welcomed to participate in the activities of the parent organization, the North Jersey Chapter of the S.A.M. Frequent meetings held by this organization provide excellent speakers and discussions as well as the opportunity to become acquainted with the leading management of the area.

The chapter has gained wide prestige both in school and out. Its members are active in the college professional societies group and in college affairs in general. An employment brochure which was composed by the chapter has received commendations from industrialists and editorial columns of newspapers and has served to focus attention on both the chapter and the college.

The chapter has been growing rapidly. It is hoped that every department of the college will be fully represented, for the organization has much to offer its members.

President       JAMES D. BUTTOLPH   Secretary       JAMES SALERNO
Vice President  ANTHONY CUOCO    Treasurer       LESTER DISENHOF
Faculty Adviser PROFESSOR WILLIAM JAFFE
Institute of Radio Engineers

The NCE Student Branch of the Institute of Radio Engineers was formed during the spring semester of 1948. Since then, it has gained impetus, and despite its comparative youth, it has attained a stature equal to the longer established professional societies.

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

The I. R. E. provided informal, bi-weekly sessions in which many technical points were discussed. Noteworthy among the activities were trips to the WOR-TV station and to the Brookhaven Atomic Research Laboratories in Long Island.

Chairman . . . . . . BERG SCHWARZSCHILD Secretary . . . . . . STANLEY W. SOLLEY
Vice Chairman . . . . . JAMES D. BUTTOLPH Treasurer . . . . . . FREDERICK SINGER, JR.
Faculty Adviser . . . PROFESSOR MATTHEW E. ZARET

Association of Chemical Engineering Students

The Association of Chemical Engineering Students has been active as a professional society for two years. It has filled all requirements for an American Institute of Chemical Engineers Student Chapter Charter, and acceptance will probably be received by the time this goes to print.

The object of this association is to assist the professional development of its members by improving their methods of study, by increasing their familiarity with chemical and chemical engineering literature, and by supplementing classroom knowledge with the wisdom gained through experience. The habits and attitudes of the profession are encouraged by the professional acquaintances made and by the interchange of ideas. During the year the organization sponsored guest speakers, planned trips, and social events.

President . . . . . . JOHN S. NEGRA Corresponding Secretary . ANGELINA HALAMANDARIS
Vice President . . . . DANIEL WILT Treasurer . . . . . . JOHN COLONIAS
Secretary . . . . . . HERBERT OTANI Faculty Adviser . PROFESSOR CHARLES L. MANTELL
honor societies

fraternities
Tau Beta Pi

New Jersey Gamma of Tau Beta Pi is the NCE Chapter of the national honorary engineering society. Its purpose is to confer recognition upon those who have distinguished themselves by character and scholastic achievement. In its present form, however, Tau Beta Pi is more an active service organization than static group of select students.

The service tasks of Tau Beta are of two general types. The first of these is an attempt to improve and coordinate student-instructor relations. A faculty-rating system conducted by the society provides a means of presenting student suggestions to the faculty.

The second type of service undertaken by members of Tau Beta Pi is that of scholastic aid and assistance to students. Many students at the college will long be grateful for Tau Bate's free tutoring service. Another stimulant to scholarship is the annual recognition given by Tau Beta Pi to the freshman attaining the highest scholastic average.
Though active in the school as a service group, the social side of life has not been neglected by Tau Beta Pi. One of the outstanding events of the school year is the Tau Beta Pi Smoker, at which the Senior Division students and the faculty are brought together on a friendly basis.

As a member of the Tau Beta Pi Metropolitan Council, the NCE chapter participates actively in social gatherings sponsored jointly by the seven chapters in the New York area.

National Officers and Newark Alumnus Chapter Officers of Installation of Newark Alumnus Chapter of Tau Beta Pi.
Nu Chi Epsilon Society

Nu Chi Epsilon was established by the students and faculty of Newark College of Engineering as a society to provide honor and recognition to those undergraduates who had demonstrated leadership and service to their Alma Mater. The society was created with the hope that it would add significance to the awards given to the college’s outstanding leaders and would bring together the most representative men in all phases of college life—to create an organization which would help mould the sentiment of the institution on questions of local and intercollegiate interest.

Membership in Nu Chi Epsilon is dependent upon five qualifications: character, leadership, and service in campus life, scholarship, fellowship, and consecration to democratic ideals.

After two years of active operation as a local society, Nu Chi Epsilon was installed as a member of Omicron Delta Kappa, national leadership society, in the spring of 1950.

Nu Chi Epsilon elects members twice each year from the ranks of the junior and senior classes. At the end of the spring term each year one man is chosen by the society from the Freshmen or Sophomore Class as the "outstanding underclassman". This man receives a commendation from Nu Chi Epsilon, and his name is engraved on a plaque sponsored by the Fraternity. The 1949 winner of this award was Vincent Purcell, Class of '51.
The Inter-Fraternity Council is essentially a coordinating organization which performs the vital and difficult function of bringing together the collegiate-fraternal ideas of the various groups of students, the faculty, and the Student Council. These suggestions are discussed in the regular business meetings of the Council, to be crystallized into definite plans of action for social and athletic activities. Special awards and trophies are distributed through the Council to students whose meritorious efforts in fraternal life earn distinction.

Alpha Sigma Phi Fraternity

Alpha Sigma Phi was founded in 1845 at Yale University and has since become one of the largest national fraternities in the country. Here at NCE, Alpha Rho Chapter looks with pride on its record of good fellowship and scholarship attained throughout the years.

The year 1950 proved to be another successful year for the chapter under the guidance of its adviser, Professor Charles Duursema.

Alpha Rho Chapter

President . . . . . . . THOMAS FLEIG
Vice President . . . . . . FRANK ROSTKOWSKI
Secretary . . . . . . . PAUL REIBEL
Corresponding Secretary . . . . . JAMES DENNEHY
Treasurer . . . . . . . HRANT DALALIAN
Faculty Adviser . . . . . PROFESSOR CHARLES DUURSEMA
Tau Delta Phi Fraternity

The members of Tau Delta Phi were consistently aware of the importance of extra-curricular activities and the resultant influence upon the development of a young college student. As a consequence, the brothers can be found occupying some of the most prominent offices within the realm of student activities. During the past three years Tau Delta Phi was instrumental in the reorganization of the Interfraternity Council as well as in submitting a layout for the Student's Handbook, which is now undergoing final processing before publication.

Tau Epsilon Chapter

Consul ........................................ LEONARD HOLLANDER
Vice Consul .................................... LESTER DIENHOF
Quaestor ....................................... BERT SCHWARTZCHILD
Secretary ...................................... EDWARD BARGEMANN
Corresponding Secretary ..................... LOUIS KAMENTSKY
Custos .......................................... ALFRED GOTTLEIB
Faculty Adviser ................................. PROFESSOR HERMAN A. ESTRIN

Tau Epsilon Phi Fraternity

Tau Epsilon Phi first came into existence in NCE in September, 1947, when the last active chapter of Phi Delta Mu Fraternity shifted its affiliation. In the three years of activity, Tau Psi Chapter has experienced a series of ups and downs, but with the renting of an apartment at 119 Warren Street the brotherhood seems to be well on the way to stability. Besides the activity of the brothers in school affairs, the Chapter sponsors several large social affairs each year, including an exclusive dinner-dance each spring.

Tau Psi Chapter

President ...................................... MURRAY J. SKLAR
Vice President ................................ MARSHALL LEVY
Recording Secretary ......................... EDWIN LIEBERMAN
Faculty Adviser ................................. MR. JULIUS SHRENSEL
Corresponding Secretary ..................... MARTIN BERMANN
Treasurer ...................................... MARTIN WOLSKY
Historian ...................................... HERBERT RICH
Delta Sigma Zeta Fraternity

The past years have been very successful ones for Delta Sigma Zeta. An increased membership made possible a greater participation in campus activities. Prominent since its establishment in 1931, Delta Sigma Zeta has been guided by the motto "Ever Upward" and its ultimate aims: to promote the technical knowledge of the members, to provide social entertainment, and to develop individual friendships.

Among past fraternity activities were house parties, dances, and a picnic, as well as participation in intramural sports. The Nineteenth Annual Dinner-Dance highlighted the social calendar, and the year 1950 saw the alumni organization achieve complete revitalization.

President  	 FRANK SCALERA
Vice President  	 VICTOR CERELLI
Recording Secretary  	 PETER GARIPPA
Adviser  	 MR. AMERICO FARUOLO

Phi Beta Tau Fraternity

As one of the youngest and most active fraternities on the campus, Phi Beta Tau has distinguished itself for its high scholastic standing and for the wholehearted participation of its members in extracurricular affairs. Organized under severe handicaps during the prewar period, the fraternity, nevertheless, has progressed substantially in the last four years. The acquisition of a suitable locale, the undertaking of a variety of projects for the common interests of the brothers, and the incorporation of a vigorous pledging policy have enabled Phi Beta Tau to prove that the principles of nonsectarianism are not only an ideal but a practical code of living.

President  	 DONALD FAPIANO
Vice President  	 ROBERT BLOCK
Recording Secretary  	 WILLIAM SHARP
Corresponding Secretary  	 JOHN KAUFMAN
Treasurer  	 PATRICK ANDRADE-MARIN
Faculty Advisers  	 PROFESSOR HAROLD WASSON
Mr. ROBERT HAUBNER
Nationally, Pi Kappa Phi is relatively young, having been founded in 1904; but it currently ranks twentieth in size among the fifty-nine fraternities in the National Interfraternity Conference. Pi Kappa Phi is forty-second in age among this group.

There are forty-four undergraduate and thirty-four alumni chapters in Pi Kappa Phi. Beta Alpha Chapter was founded at NCE on May 26, 1948. The nucleus of Beta Alpha Chapter was the former local fraternity Phi Sigma Omega.

**Beta Alpha Chapter**

Archon ................ WILLIAM ZIKA 
Treasurer ............. CARL WHEELER 
Secretary ............. JOHN ALBRIGHT 
Historian ............. GEORGE LEWIS 
Chaplain ............. JOHN FITZGIBBON 
Warden ................. ANDREW YOUNG 
Faculty Adviser ........ PROFESSOR GEORGE C. KEEFFE

**Sigma Pi Fraternity**

Sigma Pi has been active in interfraternity athletics, winning the Bowling League Trophy in 1949. The year's social functions include the Orchid Ball, the Founder's Day Banquet, the Spring Dance and frequent house parties in which the alumni also take an active part.

**Alpha Mu Chapter**

Sage .................... GEORGE BARRETT 
First Counselor .......... PHILIP G. GARRAHAN 
Second Counselor ........ HENRY VOORMAN 
Herald .................. JOHN H. CUTLER 
Third Counselor .......... RICHARD HERMANN 
Assistant Third Counselor . RICHARD A. JONES 
Fourth Counselor .......... HARRY STOLL
student activities
Student Council

The functions of the Student Council are to coordinate all student activities, assist in the formation of worthwhile organizations, and help to establish firm liaison between students and faculty.

Among the recent accomplishments of the Council are the adoption of a new college ring; establishment of a Student Council Card Committee, which did an excellent job of distributing radio tickets and obtaining discounts from several local merchants; acceptance of Nu Chi Epsilon as a Council member; approval of Night School representation on the Council; recognition of the Bridge Club; reorganization of the Interclub Council; presentation of twenty-four Activity Award Keys, the largest number yet distributed in any one year; and, finally, a critical review of the system of awarding activity points.

The present method of obtaining funds for operation of student activities is unique, since the entire extracurricular program is financed through voluntary purchases of Student Council cards. Funds allocated by the Council are distributed in accordance with the relative size of budgets submitted, subject to the limitations of the treasury.

In addition to representation from each class council, the Student Council includes representatives from Tau Beta Pi, Nu Chi Epsilon, the Interfraternity Council, the Technician, the Athletic Association, the Interclub Council, and the Night School Council.
The Athletic Association promotes and stimulates interest in student activities by administering a program of varsity, intramural, and club sports. Through its Council, the A.A. co-ordinates the various group activities, secures and distributes funds, approves varsity schedules, and presents athletic awards.

During the past season NCE was represented by varsity teams in basketball, baseball, fencing, tennis, yachting, table tennis, and chess, while intramural basketball, handball, softball, volleyball, wrestling, and boxing were offered to students of average athletic skill. Activities such as table tennis, skiing, golf, dancing, rifle marksmanship, and bridge were organized on a club basis.

The growth of club interest with the increased enrollment at the college has made necessary some type of coordinating body to integrate the many activities. Long inactive, the Interclub Council was reorganized this year to fill the need.

The aims and purposes of the Interclub Council are:
1. To encourage and develop club consciousness among the students of the college.
2. To coordinate schedules of club meetings and other functions.
3. To provide a judicial body for the clubs.
4. To provide representation for clubs on the Student Council.
5. To plan for, supervise, and assist in the representation of clubs at the annual Visitors' Day.
Basketball

The NCE varsity cagers finished the 1949-1950 basketball campaign with a record of six wins against five losses. Victims of the Highlander five were Stevens Institute of Technology, Drew University (twice), Jersey City State Teachers, and, last but not least, the Alumni. Victorious over the Engineers were Newark Colleges of Rutgers University (twice), St. Peter's, Rutgers College of Pharmacy, and Paterson State Teachers College.

In mid-season the cagers had the best percentage in Essex County with a five and one record, but a disastrous finish produced only one victory in four games.

Only one senior, Martin Chase, stellar floorman and playmaker, was on this year’s squad. Therefore, Coach Bauder will have his entire squad, minus one, back next season. A few promising Junior Varsity players are also expected to bolster next year’s varsity five.

High scorer for the season was Joe Kindzierski, sophomore center, with 132 points. Herb Iris, with a late season rush, hit for 123 points, followed by Herman Erichsen and Seymour Fleisher with 104 and 93 points respectively.

An expanded schedule of both home and away games is being planned for next season, since the present ten game array allows too few playing opportunities for the development of a consistent team. A road trip through Pennsylvania during the break between semesters, and a few more home and home series should solve the existing problem.

The nucleus of next season's squad will probably consist of Joe Kindzierski, Fleisher, Iris, Erichsen, Bob Meyler, Don Giovannoli, and Bill Kindzierski although new freshmen talent could earn themselves a starting berth since these are never certain even well into the season.
NCE . . 63 Alumni . . 32
NCE . . 57 Drew . . 55
NCE . . 44 Newark Rutgers . . 66
NCE . . 76 Jersey City State Teachers . . 62
NCE . . 50 Stevens . . 48
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NCE . . 60 St. Peters . . 65
NCE . . 43 Rutgers Pharmacy . . 69
NCE . . 59 Paterson State Teachers . . 66
NCE . . 68 Drew . . 64
NCE . . 70 Newark Rutgers . . 78

Above—"Zoom" Fleischer breaks through to score with leaping one-hander in contest with Newark Teachers.

Right—Bob Hoffman retrieves ball off backboard after unsuccessful try at basket by Newark Rutgers courtster.
Baseball

The members of the varsity baseball nine will begin the 1950 season by taking on Panzer at the latter's diamond on April 14. Since practically every man on last year's squad is expected to return to action, Coach Ed Johnson should be able to field a well-balanced, seasoned bunch of ball players.

Last season, during which baseball was inaugurated at N. C. E., the Engineers compiled a record of three victories, seven defeats, and one tie. However, the batsman were hampered greatly by a lack of convenient practice facilities and injuries to key players at critical points in the schedule.

This year, despite a formidable slate which includes several out-of-state opponents, the N. C. E. nine hopes to improve considerably on last season's record. The Engineers especially will be seeking victories over Drew University and Montclair State Teachers' College, both of whom inflicted double setbacks last year.

Captain Ted DeBoer at third base is expected to spark the hustling, aggressive squad, which boasts of experienced men at every position.

Playing their last games this season will be seniors Lou Wenisch, dependable catcher, and Warren Olde, guardian of the keystone sack. Since the other varsity positions will be filled primarily by sophomores and juniors, the future of N. C. E. as far as baseball is concerned should continue to look bright for at least the next two years.

THE 1950 SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent</th>
<th>Location</th>
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<tbody>
<tr>
<td>April 14</td>
<td>Panzer</td>
<td>Away</td>
</tr>
<tr>
<td>15</td>
<td>Drew</td>
<td>Away</td>
</tr>
<tr>
<td>20</td>
<td>Montclair State Teachers</td>
<td>Away</td>
</tr>
<tr>
<td>24</td>
<td>Montclair State Teachers</td>
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<tr>
<td>28</td>
<td>Utica College</td>
<td>Away</td>
</tr>
<tr>
<td>29</td>
<td>Clarkson Tech</td>
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</tr>
<tr>
<td>May 4</td>
<td>Newark Rutgers</td>
<td>Away</td>
</tr>
<tr>
<td>12</td>
<td>Paterson State Teachers</td>
<td>Home</td>
</tr>
<tr>
<td>13</td>
<td>New Paltz State Teachers</td>
<td>Home</td>
</tr>
<tr>
<td>20</td>
<td>New Paltz State Teachers</td>
<td>Away</td>
</tr>
<tr>
<td>June 10</td>
<td>Drew</td>
<td>Away</td>
</tr>
</tbody>
</table>
Ted DeBoer chalks up run number eight in last year's 14-6 rout of Newark Rutgers.

A solid smash good for two runs, as NCE went on to win, 10-6, in tussle with Bloomfield College.

It's a close play at third, in fourth inning rally, which enabled NCE to drub Montclair State by a count of 11-4.
The swordsmen completed ther regular sea-
son with an impressive record of seven vic-
tories and two defeats. Only an early season
setback by powerful Stevens Tech and an up-
set by Drew’s fencers marred what otherwise
would have been the second straight unde-
fated year of fencing competition for NCE.

Sparked by Captain Vincent Purcell in the
saber event, the Taettsch brothers in the foil,
and Hamilton Bowser in the epee the squad
cut down Lafayette, Newark Rutgers, and
Montclair State Teachers after the initial loss
to Stevens. Then, following a 15½-11½ de-
cision which went to Drew, the swordsmen
swept to successive victories over Cooper Un-
ion, St. Peter’s, Paterson State Teachers, and
Jersey City State Teachers.

The team entered the annual Visitors’ Day
Tourney on April 1 and annexed the trophy
symbolic of North Jersey fencing supremacy
for the second successive year.

Much of the fencing team’s success in the
past two years is due to the efforts of Coach
Pel Ringii. Formerly NCE competed in the foil
alone, but Mr. Ringii intrduced the epee and
saber, enabling the squad to become proficient
in all weapons.

Since all varsity men are juniors or sopho-
mores, NCE should be able to maintain and
strengthen its current position as a fencing
power in the North Jersey area.

THE SEASON’S RECORD

<table>
<thead>
<tr>
<th>Won 7, Lost 2</th>
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<tbody>
<tr>
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<td>9</td>
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<tr>
<td>Stevens Tech</td>
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<td>Lafayette</td>
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</tr>
<tr>
<td>NCE........</td>
<td>11½</td>
</tr>
<tr>
<td>Drew</td>
<td>15½</td>
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<tr>
<td>NCE........</td>
<td>16½</td>
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<tr>
<td>Cooper Union</td>
<td>10½</td>
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<tr>
<td>NCE........</td>
<td>18</td>
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<tr>
<td>St. Peter’s</td>
<td>9</td>
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<tr>
<td>NCE........</td>
<td>16</td>
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<td>Paterson State Teachers</td>
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<tr>
<td>NCE........</td>
<td>19</td>
</tr>
<tr>
<td>Jersey City State Teachers</td>
<td>8</td>
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</tbody>
</table>
The 1948-49 tennis season saw NCE field varsity squad for the first time since the war. Matches were scheduled and played against Drew, Newark College of Rutgers, and Montclair State Teachers College. The season's record of one win and three losses was far below previous NCE standards and very indicative of the state of transition from club play to intercollegiate competition.

The change itself was mainly brought about through the efforts of Paul Kliminski. Besides both scheduling and playing in the matches, Paul was also the acting manager and had the unenviable task of rounding up a full team for mid-afternoon, weekday, away matches.

In order to supplement the hurried and often weather harried spring practice sessions, Coach Bowé inaugurated fall tennis in the form of two hour round robin 5-game match play. The practices were held on Saturday mornings at Branch Brook Park. Expected losses to the NCE double of Staff Control reports and design problems were negligible and the turnout was close to 100%. Len Wilson and Jack Sasseen battled it out for the number one position with Bob Lawit not far behind.

At the present time the finishing touches are being put on an expanded schedule of Saturday matches which will permit NCE to field its best team for every match. Indoor practice and pre-season tuneups are also being negotiated in an all out effort to place the NCE netsters at the top of New Jersey's college ranking list for the year 1950.

**THE 1950 SCHEDULE**

<table>
<thead>
<tr>
<th>April 15</th>
<th>May 6</th>
<th>May 12</th>
<th>May 13</th>
<th>May 20</th>
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<tbody>
<tr>
<td>Drew</td>
<td>Panzer</td>
<td>Newark</td>
<td>Paterson State</td>
<td>Montclair State</td>
<td>St. Peter's</td>
<td>Pace</td>
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</table>

**THE 1950 SCHEDULE**

April 15. Drew
May 6. Panzer
May 12. Newark Rutgers
May 13. Paterson State
May 20. Montclair State
May 27. St. Peter's
June 3. Pace
Intramural Sports

Under the direction of the Athletic Association, intramural activities have expanded in the last four years from a single organized basketball league to the present highly coordinated program, which offers basketball, handball, volleyball, badminton, boxing, wrestling, and softball to sports-hungry NCE students.

Intramural quintets representing thirty-six sections recently engaged in heated competition for court hours. Because of the unwieldiness of the group, the squads were divided into four divisions for ease of scheduling. After completion of the regular season, top-seeded teams from each division battled in the playoffs to determine which section would emerge as undisputed basketball champ of NCE for 1950.

Badminton, rapidly increasing in popularity, attracted more than twenty-five men to the annual college-wide tournament, in which divisions were established for both singles and doubles matches. After the matches the nets were not always removed, for volleyball enthusiasts generally stood by waiting to go into action. Handball contestants were also pitted against one another whenever infrequent gaps in the tight gym schedule permitted.

Soon softball will be added to the growing list of intramural sports being organized and coordinated by the Athletic Association. Previously the A.A. provided equipment for any group of students who desired to play softball, but no competitive records were kept.

This year intramural sports were placed in a separate category for the first time, and a special co-ordinator was selected to administer the program. Thus, students who wished to participate in one or more sports were assured of the opportunity to complete through precise scheduling of available gym time and the presence of competent referees for every scheduled contest.
Mr. Robert Swanson, Athletic Director, supervises game of Volleyball, always a popular intramural sport.

Matty Wall works out in Campbell Hall gym punching bag.

Golfers limber up during winter months in preparation for spring competition.
Rifle Club

President . . . . . . . EDMUND BERDELA
Vice President . . . . . . . ALFRED BUTA
Secretary-Treasurer . . . . . . DOMINIC GURRERA

The Rifle Club, now a member of the National Rifle Association, was reactivated this year because of a revived interest in target shooting on the part of several students. The organization consists of two divisions, one composed of AROTC marksmen and the other of regular members of the student body.

Weapons have been obtained for the "civvies" from the Office of Civilian Marksmanship, while the Reservists use rifles supplied by the Air Force. Practice sessions are held at the Sussex Avenue Armory. Next year teams representing the College will fire in matches under the Metropolitan Intercollegiate Rifle Association.

Ski Club

President . . . . . . . FRANK GRAZIANO
Vice President . . . . . . . FRANK G. CACOSSA
Secretary-Treasurer . . . . . . MARVIN ADELBERG

The Ski Club was organized early in the current college year and promptly became affiliated with the Greater Metropolitan Intercollegiate Ski Council. After a constitution was adopted, the group selected a distinctive club emblem.

Plans for a Christmas vacation trip went awry because of the lack of snow, but the club's later jaunt to Stowe, Vermont proved to be successful. The ski enthusiasts also competed in a meet at Mohawk, Connecticut which was sponsored by the Metropolitan Ski Council. The Ski Club hopes to attain varsity status in time for next season's competition.
Shortly after its inception in March, 1949, the Golf Club enjoyed an active membership of half a hundred men. Under the able direction of the officers and Mr. Robert Swanson, athletic director, a program was set up to promote golf among club members and the student body.

Several outings were planned and executed, and special discount membership cards were obtained for the Valley View Golf Course in Hanover. Many an NCE student has been initiated to the sport of golf, and many blistered hand or sprained back has resulted from the frequent outings.

President . . . . . FREDERICK SINGER, JR.
Vice President . BERT SCHWARZSCHILD
Secretary-Treasurer . ROBERT NOVOTNY

Golf Club

Yacht Club

Commodore . . . . . PHILIP GOETZ
Vice Commodore . RICHARD SHELLMER
Secretary . . . . . ROBERT HELLMER
Treasurer . . . . . STANLEY MAISEL

Since its beginnings in 1944 the Yacht Club has enjoyed a steady growth. The sailors now have eleven boats at their service, including a sixteen-foot runabout and five sailboats. The home base is at Lavallette, and most of the sailing is done on Barnegat Bay. During the past four years an annual trophy race has been held with Stevens, and the Club also plans to compete next season with the Rutgers yachtmen.

This year the Yacht Club will lose two very competent and popular skippers, Felix Matusky and Jerry DeVera, through the porthole of graduation.
Table Tennis

The varsity table tennis team compiled a creditable record in the New Jersey Intercollegiate Table Tennis League, winning ten contests while losing four. During the first half of the season the paddlers finished third, but fought back to tie Upsala, national collegiate champion, for the second-half league title.

In the first three matches played NCE shutout Fairleigh Dickinson, Newark State Teachers, and Union Junior College by 11-0 scores. However, the team dropped three out of the next four contests by 6-5 counts. The last half of the season saw the paddlers drive to six straight triumphs before being stopped by Upsala’s well-balanced combine.

In addition to league play NCE also participated in the New Jersey State and National Intercollegiate Tournaments. Outstanding against the top competition encountered during the year were Bill Singleton, team captain; Sy Goldberg, president of the Table Tennis Club; and Merv Seeley, former Club president. Other seniors who helped the team to victory are Norm Damron, Stan Loomis, Bob Schiff, and Lou Wenisch. Mr. David Mangnell served as coach.
Organizing quickly this year, the Chess Club began its annual tournament within a week after the opening of school. Twelve players registered for the round-robin play, which will determine the members of the Varsity Chess Team.

The members of the club are looking forward to a successful season, since all of the members of last year's team have returned.

Matches are planned with Rutgers, Seton Hall, Princeton, West Point, Drew, Stevens, and Union Junior College, while arrangements are being made to enter the New Jersey Intercollegiate Chess League.

In recent years NCE has developed strong chess teams which have scored an impressive number of victories. Highlighting last season's play was a convincing 5-0 shutout over Seton Hall after an earlier loss to the same team.

The Newark College of Engineering Radio Club is an organization whose purpose is to develop and further the interest of students in amateur radio and electronics. Instruction in telegraphy and in basic radio theory is provided by the club for its non-licensed members.

The station at the college is licensed by the government under the call W2JPK. The "shack" was recently moved into the electrical laboratory where the equipment was overhauled. Power facilities were installed by the members, and an 80-meter folded dipole was erected on the roof of the laboratory building. The station operates on 10-meter 'phone and 40 and 80-meter CW, with an output of 50 watts. Through its many national and international contacts, which extend from California to Puerto Rico, the club has spread the name of NCE throughout the world.
Although the origins of the Dance Club are steeped in legend, it seems fairly certain that this rhythmic body was the result of a desire on the part of certain sophomore students (circa 1948-49) for an active social life. It was decided that, insofar as dancing was to be the medium for social expression, only non-dancers were to be invited to join. This immediately eliminated 0.001% of the student population, the one man so eliminated having grossly erred when asked the inevitable question, “can you dance?”

At the first meeting many men appeared, clean-shaven and ready to dance their feet off for dear old NCE. A few girls appeared and promptly had their toes stepped on for dear old State Teachers College. The repercussions of this first meeting drastically affected the next series of meetings because the few girls present passed the word around that NCE was simply loaded with men. Conversely, the men passed the word around that dance partners were plenty scarce. The instructor, Robert Swanson, edged a word in that the only items in plentiful supply were men with two left feet. The net result was that at the second meeting many, many girls and only a handful of men were present, completely reversing the situation!

Recalled, for those not familiar with those hectic times, are the nights when raids were conducted on local fraternity houses for the purpose of balancing the see-saw enticing the girls into returning the following week. Only an analytical eye would have noted the staid professor or diligent instructor filling in on nights when some students were at home studying for a test. Perish the thought that even this might have been prearranged!

When reactivated in the fall of 1949 the Dance Club glided into high gear from the very first meeting. As expected, the new members had the usual grim look of determination and the tell-tale death-lock on their partners, while the older members danced serenely by, confident and assured on this pinnacle of social achievement.
Bridge Club

President . . . . . . . . . . . ROBERT L. LAWIT
Vice President . . . . . . . HAROLD BROWN
Corresponding Secretary . . . JOHN C. NEUPAUER
Secretary Treasurer . . . . DONALD FAPIANO
Faculty Adviser . . . . PROF. WARREN C. CRATER
Special Lecturer . . . . . . MR. E. O. KELLER

The Class of ’49 was so predominantly bridge conscious that the normal curve listed the students in order of card-playing ability. All day the Commons vibrated to the card shuffling, and kibitzing was recognized as a school activity. A formal bridge club was a natural outgrowth of this enthusiasm, and an attempt was made to rate the self-pronounced experts by duplicate tournaments. The results of these sessions were accepted only by the team who had won the last contest, and the arguments continued. However, the tournaments were enjoyed by everyone, and the now famous theorem was reached by several independent investigators that “the post mortem is as essential to bridge players as the game itself.”

This year the well-known expert, Mr. E. O. Keller, attempted to bring order out of the chaos by a series of lectures. Special emphasis was placed on the Goren Point System of Bidding, which experts of the game praised as being “better than cheating.” Despite this glowing tribute, with typical engineering caution, several members introduced safety factors of their own. Notable among these was Bob Strauss, an outstanding devotee of “inflective” bidding. Most teams, lacking the spontaneity and histionic ability of the Strauss-Tassaro combine, played it straight, and each bid was followed by a frenzied perusal of the lecture data. From the outset, however, it was made clear that slide rules would not be permitted, and after a few sessions, except for the look of concentration on those usually bland faces, nothing amiss would have been noted by a casual observer.

Intercollegiate matches are on the agenda, and the Goren Point System is expected to do for bridge what the T-formation and platoon system did for football. As gray-haired alumni, we shall, no doubt, read of the exploits of Newark College of Engineering bridge teams who shall achieve fame in their field similar to that which Notre Dame’s athletes have brought to their respective Alma Mater.
The annual singing of Christian carols about the halls of the college by the Glee Club is speedily becoming an NCE tradition. The festive atmosphere of those occasions has put many a sober student into the proper frame of mind for his Yule vacation. Visitors’ Day also finds the Glee Club an active participant, with an afternoon series of concerts to make the visiting friends of the college feel at home. Included in the yearly program of the club are other appearances at smokers, dances, and similar student affairs where the harmonies of song can enhance and contribute to the spirit of the occasion.

The past year saw a complete reorganization of the club to conform to the requirements of the Student Council and the newly formed Interclub Council. A new constitution and by-laws were drafted, and the system of election of officers was improved.

The inspired direction and leadership of Mr. Frederick P. Fernsler has contributed much to the growth of the Glee Club during the few past years.

This year a new organization appeared on our campus, Christian Fellowship. The purpose of this group is different from that of any other activity in the school. It is not primarily a social group, but a group devoted to the study of God’s Word—the Bible. Biweekly the members join in a discussion and a study of the scriptures. Occasionally members meet with similar organizations in other colleges and universities.

The group has selected as its motto a verse written by Solomon in Proverbs 1:7: “The fear of the Lord is the beginning of knowledge.”

This verse presents in a poignant manner the need of our campus, where too often God, who made the laws governing engineering, is denied or forgotten.

The organization is not sponsored by any church or domination but is linked with the nonsectarian, international Intervarsity Christian Fellowship, which is active on campuses in thirty-nine states and fifteen countries. Headquarters for IVCF in this area is located in New York City.
It has been said that people join a photography club for the following reasons:
1. To acquire knowledge and skill with which to make better photographs.
2. To present their work for the praise or criticism which it may receive.
3. To enjoy the fellowship of others who have similar interests.

With these reasons as the basis for its existence, the Photography Club has been attractive to the many at NCE who have a definite interest in photography.

The program of the club has included numerous activities of a varied nature as to make membership beneficial both to the neophyte and to the advanced worker.

Lectures on basic and advanced topics are offered to members and non-members alike. When available, slides or movies are used as an aid in presenting the topics. Recent subjects include film processing, with emphasis on the use of pyro-developing formulas; flash photography, including the use of synchro-sunlight flash; and types of photographic films.

Many contests have been sponsored by the club. Some have been limited to members only, others were open to anyone in the college. For all of the contests the club relied on the cooperation of several faculty members who served as judges. Among the prizes offered to the winners were two tickets to a Broadway play, a ten-dollar certificate redeemable for photographic merchandise, and a book on photography.

Field trips are another activity which ranks high in popularity. On one occasion the club spent the day at Mr. Ridge’s summer home at Lake Mohawk. The weather was not too favorable for photography, but all had a pleasant time out on the lake.

On January 7, 1949, the club held its first portrait session. This new event was so successful that the club now schedules one each semester. For these events the club invites the participation of three members of the College’s secretarial staff. In appreciation of their part as photographer’s model, each secretary receives a set of portraits.

Through these ways the club has endeavored to satisfy the three basic desires of its members.
The Nucleus Staff was a non-profit "volunteer" outfit, drafted primarily so that the student body could have a group readily available to whom they could feel superior. Despite their lowly demeanor and neurotic tendencies, brought on by continual abuse, the members of the staff worked hard and often. Fortunately, the editors gave clear signs when approaching the breaking point—(Ross would bite-off the top of a beer bottle and gouge the nearest staff member—Lawit leaped up on the chandelier and yelled Brazilian curse words—"Angie" sobbed softly in the corner about a woman's lot—Reinhold beat the table with his slide-rule—Singalewitch called up Georgina.) Witnessing these mad actions the cowering staffs would figure out that perhaps a break was in order and the meetings would adjourn to the nearest spa to benefit from the health restoring fluids. Even there the decisions relating to high level policy went on and on into the night with Prof. Estrin setting the tone in his usual, calm, conservative manner. In such manner the tedious, titanic, titilating tome was prepared for press.

For those members of the class who worked and wept with us, and for the larger number who stayed away and thus did not distract the smaller number, the above group stands as a symbol.
The Technician, NCE's monthly student newspaper, achieved notable progress during the past year. Several seniors combined their efforts with those of the underclassmen on the staff to publish a paper which presented varied features, provocative editorial comment, wide news coverage, and up-to-date sports results in every issue.

Cal Silverstein did a competent job as Editor while Norm Damron, whose "nose for news" often proved advantageous, handled the News Department capably.

One of the most widely read columns in the Technician was the product of Bert Schwarzschild. Bert's sparkling sidelights on life at NCE brought many a chuckle from students and faculty alike. Still another dependable regular was Marty Chase, who somehow managed to cover all basketball contests while playing on the varsity at the same time.

Many an issue of the Technician would have been lacking in pictorial appeal if Ed Hanson, Photography Editor, had not contributed his services. Ed's cheerful willingness to cover any and every photographic assignment made him one of the most valued members of the staff. Working with Ed was Lou Wenisch, who contributed newsworthy, high-quality photos for several issues.

In order to produce a more attractive newspaper, several physical changes were incorporated into the Technician. The page size was enlarged, the number of columns was increased to six, a distinctive nameplate was devised, pictures were used liberally, and well-balanced page layouts were drawn up.

In competition with other monthly newspapers throughout the nation the Technician received a "First Class" rating from the Associated Collegiate Press, which is the second highest awarded by that body. In addition, several favorable comments were received during the year from a number of qualified individuals schooled in the principles of good journalistic practice.
The Surveyor, official newspaper of the NCE student chapter of A. S. C. E., is published monthly at the time of the regular chapter meetings on the first Monday of each month. Its staff is small but very efficient in gathering the necessary material for the interesting and amusing issues printed. All student contributions are encouraged so that each civil section may be well represented.

The Surveyor publicizes A. S. C. E. and publishes other articles of student and faculty interest.
Ray Blum's
Skating Victories

New York Silver Skates Men's Senior Derby (1943)
New York Silver Skates Race of Champions
(1944, 1947, 1949)
Middle Atlantic States Outdoor Championship
(1944, 1947, 1949, 1950)
New York State Indoor Championship
(1944, 1948)
Chicago Silver Skates (1945)
Illinois State Championship (1945)
Tri-State Championship (1945)
Mid-West Outdoor Championship (1945)
Los Angeles Silver Skates (1946)
10,000 Meter Olympic Trial Race (1947)
Eastern States Indoor Championship (1947)
Tri-State Indoor Championship (1947, 1948)
Fifth Winter Olympics—First U. S. Skater in 5000
Meter Race (1948)
Eastern States Outdoor Championship
(1949, 1950)
United States National Outdoor Championship
(1949)
North American Outdoor Championship (1950)
Isn't Hanson's partner lovely!

Bridge tournament from the rear.

Show your strength.

A thrilling shot . . . the women aren't bad, either!

Grim determination.

NCE scores against Rutgers.

What is so rare as a day without books!
on the lighter side
I am one of the chosen few. I was born under a lucky star with a silver spoon in my mouth. Good fortune always smiled at me. In short, I am a graduate of NCE.

But let me start at the beginning—back in the summer of 1946. I was just recovering from my harrowing experiences as a number of the armed forces—fighting on the far-flung battlegrounds throughout the world—fighting to save freedom, to preserve our democratic way of life, to protect our loved ones, and also because I was drafted.

It was while I was in this nervous state that I chanced to turn on the radio. Suddenly a course of voices backed by a full orchestra and some beating on a pumpkin gave forth with,

"Why don't you enroll at NCE? We promise to treat you right. In order to get your first degree, you'll work both day and night."

All to the tune of "Yankee Doodle". Naturally the combination of words and music impressed me no end. I turned to my father and in a clear, calm voice, "Father, what's NCE?"

My father smiled at me (he has smiled at me quite often lately), put down his ocarina, and in an equally clear, calm voice said, "Son, I don't know." With that he gave a scream and went to bed.

It was difficult, but I finally found the answer. So one bright, sunny morning I decided to take a walk along High Street and look the place over. While walking peacefully on my way, I was suddenly grabbed by the arm and dragged into a doorway. A gruff voice whispered in my ear, "Sign here, Mac." Because of my weakened condition I signed.

The gruff voice sighed and said that I had just signed my application to NCE.

"I get a commission," he went on, "for everyone I sign up. You're my eighteenth this morning. Come down next Monday and take the entrance exam."

"But," I objected, "I haven't looked at a book in years. I couldn't pass any examination."

"Don't worry, Mac," he said. "There are only 37,000 others taking it. You've got a swell chance."

With that he left mumbling something about what a way to earn a living.

The following Thursday I got a letter saying I had passed the exam. I rushed over and explained that I hadn't taken the exam yet. They laughed and handed me a large box of books and papers and told me that classes started promptly at 6:00 A.M. That was because I was only a Freshman. I went home and told everyone that I was going to NCE.

"Pretty tough getting into that place, isn't it?" they'd say.

"Yeah," I'd answer.

And so my Freshman year began. It looked like a lot of work. It was. I was up at 4:30 A.M. For the next
hour and a half I walked to school. Then classes and labs for twelve hours. Another hour and a half for my home. I had a part-time job which took up another six hours a day but which fitted in rather nicely with my course in electrical engineering. I pasted plus and minus terminals on lightning bugs. Because of my job I had more daylight than most people. It wasn’t until I finished work each day that I would discover it was actually night already. Then I’d begin my homework. Only five hours for that. Then off to bed for a restful minus two hours’ sleep. But this routine had its advantages. At the end of my freshman year I died. The next three years were much easier.

In my sophomore year I think that the most interesting course was Principles of Engineering. There was a course. Every week hundreds of us were herded into the gym and given inspiring lectures on various topics of the day. These included: How to Get a Job in Engineering; How to Make Money Instead of Bridges; How to Pass True-and-False Quizzes; Where to Sell Your H. I. C. Text; Where to Buy Lab Reports; and How an Unmarried Veteran Could Get $105 per Month. Needless to say, these lectures were well attended.

During this second year there was always some excitement. Twice there was an epidemic of students hanging themselves in the Commons because of low grades. This, of course, was quickly remedied, as those old beams could not take too much stress.

In my junior year I was initiated into the rigors of Staff Control. In this course students who had made $100 a week during the summer listened to the Honors Option students tell how they made $35 a week. Each talk ended on the look-at-the-experience-I-got note. It was also in this year that I discovered there were extracurricular activities going on at NCE—athletics, club, fraternities, smokers, and dances. All this and more available to those owning Student Council Cards. The cards were usually difficult to obtain, however, there being such a demand that the printers had difficulty keeping up with it.

I used to enjoy basketball games. I was luckier than most because I always came early and managed to get a good seat, right next to Coach Bauder on the bench.

The smokers always provided the instructors (those who were able) the opportunity to let down their hair. I remember, too, our Class Day in New York. I remember especially how the students enjoyed watching the various shows. They had to watch—they couldn’t hear that far away.

My senior year was very similar to my junior year—low grades. But we all realized that soon we would leave the protection of those hallowed halls and enter into the world where we would stand alone, no longer guided by strong voices of our advisers as they said encouragingly, “You’re not putting enough time on this subject.”

But always will we treasure the memories. Always will we stand with head held high and with eyes moist when we gather together with those less unfortunate—those who did not attend NCE—and we’ll always feel proud within when they look at us and say, “NCE? What’s that?”
A college, like an army, can be judged by the quality of its complaints. So that generations yet unborn may have available to them the reasons for some of our fancier griping, a short summary of contributing causes, descriptively labeled, herewith becomes history.

Quotes which could empty a classroom in three seconds. "... Gentlemen, there is no reason for anyone to flunk this course (two students can figure on signing up for summer school) ... I want you men to use your own initiative on this project. (Before you begin, pick up the short volume of instructions at the bookstore) ... I don't have to be able to do it—I'm the instructor. (No one did the tough homework problem and he's stuck) ... I don't mark on a normal curve, you can all get B. (The marks—2A's, 4B's, 8C's, 4D's, 2F's) ... you men put too much emphasis on marks. (Fighting for marks or working for money is unprofessional) ... You men are lucky, plenty of fellows wish they were in your place. (After a term of that we were wishing the same thing) ... I don't believe in assigning homework over a vacation, but if you get bored look over the following texts. (There goes that vacation) ... Besides, don't worry, men; they never flunk seniors (that lad is on his third time around and still has not caught on).

Saying which made every "bull session" dangerous ... If I wanted to study I could make Dean's List easy—and the sister remark—I just missed Tau Beta Pi because of insufficient extracurricular activity. (These two boys were anchor men on the curve) ... I'm bucking for Honors Option so I can get a good job this summer. (Tote that barge, lift that bale) ... I copied an A report word for word and got a lousy D. (Some democracy)
with the Bitter . . .

. . . In this school I have no friends, just competitors. (In a nice way, of course) . . . I knew the test cold, my slide rule slipped. (Flunk the slide rule) . . . Say, I met half the last graduates at the unemployment office. (This is especially sad—I met them too) . . . Who needs women? (No comment).

Scenes that brought nausea in the laboratory . . . The irresistible urge to splash water during their weir experiment in mech lab. (All the points lost on that experiment would be a larger number than Notre Dame's total for the year) . . . Working with dividers to four place accuracy in strength lab from data that the recorder interpolated between the first and last reading . . . Weighing a coal sample for half an hour to one-tenth of a milligram and then adding a factor to the result to compensate for the coal spilled on the way to the scale—and finally sweeping the spilled coal from the floor into the crucible with a table brush . . . Going through exhaustive tests in the qualitative lab and after two weeks of analysis holding the original sample up to light and guessing . . . Carefully titrating reagents for a precipitate without success and then after spilling out the solution, seeing the precipitate form in the sink . . . The mad rush in electrical lab to gather equipment, steal leads, find open jacks, and then after two hours of frantic wiring take twenty-two seconds of data . . . The uncanny ability of the electricals to solve the most complicated networks while sipping coffee at Dave's . . . The Civils going into the field for strenuous profile run carrying in their brief case a ball and glove . . . And in all the labs the nervous fear that the results might come out right throwing great suspicion upon the group.
Life at NCE wasn't as dull as most of us tried to make it seem. We can always remember... The vacations. (I hear they don't have the same vacation schedule in industry. Must be monotonous working all the time.)... The bridge game and ping-pong games in the Commons. (They always seemed to have preference over our classes.)... The guys standing in front of the school at lunch time passing judgment on the girls from Central High... The smokers. (It was fun watching Bill Sackman giving the faculty the business.)

The yearly class trips to New York. (The only way to get a good theater seat was to go to the show to which our class adviser, Professor Estrin, went)... The lab write-up periods. (They were the most enjoyable hours ever spent in the lab. No one did anything.)

The "country club" atmosphere that surrounded the bookstore whenever a vet stopped to pick up supplies. (It will probably be the last time any of us will ever get to sign for the check)... The happy hours spent at Fucci's, LaRocca, and Beb's... The class dances and class picnics... The pin ball machines at Dave's.

And of course, the solvent feeling that came with getting your check at the end of each month. (It was always spent before you got it, but it was nice having all that money in your pocket when first cashed.)

Then, of course, we can always remember the little incidents that bolstered our ego, such as...

Becoming a sophomore... Finding your name in the Student Mail list... Reading about yourself in the Technician... Passing a test... Asking for a book for a senior subject while a freshman stood behind you in the bookstore line.

... And certainly not to be forgotten, the little incidents that led one to believe the instructors were human. Such as... Professor Koshkarian trying to write on the blackboard with a cigarette... Dean Bradley trying to walk through a closed door... Mr. Weiner dusting the eraser on his suit... Mr. Barkan discussing the exploits of L'il Abner in a calculus class.
The faculty sounds off. Mule Train, I reckon. The jokes were lousy, but we're doing all right.

Take back your rhumba—ay.

Madame, have you tried our famous hair remover?

Don't steal—just get lucky.

This is opera?

Sam Shovel rides again.

It must have been funny.
An uncanny aura of gloom pervaded all of Campbell Hall as I strolled along its now silent hallways. Vaguely the memories stirred in the back of my mind . . . memories of a few days earlier when these hallways had been alive with eager students searching for the truth that comes from knowledge (not to mention the remuneration that goes therewith), memories of the smoke-engulfed crowds that blocked your passage to the better world of the Lab Building, and memories of the anxious, worried looks worn by those unfortunate students who stood last in the queue in the little room at the end of the hallway. Ah, those were the happy, carefree days. But now all was changed. The corridors were empty. The laughing students were gone. Only the empty clanging of the bell twice each hour remained as a hollow echo of the busier times.

As I passed one of the dim classrooms on the third floor, I heard a low moan, the sound of someone in mortal agony. I opened the door and peered into the classroom. I perceived the straight rows and columns of chairs standing in military order. In the rear corner was the solemn clothes-rack with its empty hooks hanging like so many sleeping bats. In the front of the room the professor's table stood like a colonel before his regiment. And there, slumped over the table, his books and papers spread out before him, sprawled a student. As I approached him, another low moan issued from his lips. I hurried to him and pulled him upright in the chair. Then I noticed with horror that the end of a slide rule projected from his chest. He had used this fiendish device to commit hara kiri on. (preposition is a word which I should never end a sentence with—Ref: Easley S. Jones.) He painfully forced open his eyes and looked at me. I could see at a glance that he was not long for this world. "I'm not long for this world," he gasped. With halting speech he continued, "You may think that this is the weak way out, but when you have been here four years as I have, you will learn that this is the only way out." A long, hacking cough interrupted his speech. When he spoke again his eyes were fixed on some point off in space.

"My name is Class of 1950. I started here way back in September, 1946. I never thought I would come to this. I was younger then. I was more idealistic, too. I somehow managed to fumble through my first two years here. They were comparatively easy. All my trouble started in my junior year. It was those horrible reports I had to write that finally got me. Oh, those awful reports! I can still see them! Aaaaah!! Take them away!!"
He turned to me and placed his shaking, acid-stained hand on my arm. "Take my advice, Son. Leave here while you still have possession of all your senses. Go now into the bright, wonderful world of industry while you are still sane. They will do well by you. There you will wax wealthy and prosperous. Your fame will become great, even as Rockefeller, Morgan, Whitney, and Astor.

"If you remain here you will grow ever more bitter and frustrated; some day you will come to the same end I have." Then his failing eyes lit up with a sudden light. "Gad and Pi R squared!" he exclaimed in that queer jargon that only engineers understand. "I have a thousand and one (excuse me, I mean one point oh oh one times ten cubed) items that I would like to pass on to the remaining classes before I take my leave. Would you be good enough to copy them down for me while I dictate?"

Obediently I took his pencil and paper and started to copy them down:

I, the Class of 1950, being of sound mind and body, do hereby bequeath, will, and assign the following named items to be distributed in accordance with correct legal procedure to the respective persons named therewith, as follows:

To all students who need it I leave my remarkable slide rule, which will multiply 3.00 by 4.00 and give an answer of 11.96.

To all students urgently in need of supplies I leave the Bookstore's large "CLOSED" sign.

To all students I leave an overabundance of bewildered, bitter, tired, and worn-out professors (who are very much the wiser for my having been here).

To all students seeking to make an impression I leave a large and varied assortment of books suitable for stuffing into a book-bag to give that studious appearance.

To all wealthy students I leave Dave's ingenious machines, that these students may know the real meaning of poverty.

To all hungry students I leave Dave's lunch counter, if they can get to it through the mob.

To all thirsty students I leave Fucci's (under my own power for a change).

To all students who eat in the Commons, I leave the advice to be sure to wrap your garbage securely in your lunch bag before throwing it at the janitor as he passes in front of the rubbish receptacles.

To all anxious male students I leave our female students. This is the only co-ed school in the country that has more girls working in the front office than there are in attendance.
To all students who are not doing well in certain subjects I leave my immense stack of warning letters in those subjects so you will be sure to pass them. (You will fail all subjects in which you receive no warning letters.)

To all students who have successfully completed two years here I leave my Associate Engineer's degree, which is worth every gram of the paper on which it is written.

To all students who appreciate it I leave the wonderful news that NCE has no final exams. (Don't kid yourself, friend. They have final exams every three weeks.)

To all students who have occasion to use them I leave the school's large supply of amazing balances (which for some mysterious reason will give three different weights in three successive weighings of the same object).

To all lost Freshmen I leave a clear, concise floor-plan of the college which will enable you to get from Room 18 W 2 to the Chemistry Lab in the allotted five minutes and still leave time enough to smoke completely one king-sized cigarette.

To all harried Juniors and Seniors I would leave a large and varied assortment of reports except for the fact that it would constitute unprofessional conduct on my part (and on your part, too).

To all Sophomores, Juniors, and Seniors I leave a whole city block's worth of parking space (which will be filled in by next year's Freshmen if you don't arrive at school before seven o'clock in the morning).

To all Junior Mechanicals I leave a most modern piece of equipment, the Harrisburg engine (although there is some debate whether or not it will hold together until next year).

To all Junior Mechanicals endeavoring to get from the Lab Building "Penthouse" to classes in Weston Hall I leave my oft-used parachute and my well-worn roller skates to insure them a safe and speedy passage.

To all aspiring Electrical Engineers I leave our wonderful laboratory which, as far as I have been able to determine, is equipped with nothing but the best burned out tubes and smoking power supplies.

To all Junior Electricals I leave my lost tags for meter leads. I have lost tags for enough leads to completely rewire the Electrical Lab.

To all Junior Electricals I leave that smoking ammeter with the curly pointer and those burned out circuit breakers.

To all Electricals I leave the other members of my Lab group whom I have never seen.
To all Junior Civils I leave those afternoon field trips to survey South Mountain Reservation. Make good use of them. (I, myself, found, through careful survey, that with the assistance of the sunlight one can discover ever so many interesting parking places which are not readily visible at two o’clock in the morning.)

To all Junior Civils I leave word that there is a world of practical knowledge to be gained from close observation of the cars which are parked all afternoon in South Mountain Reservation.

To all Junior Civils I leave the advice to pay close attention when you get to the class in concrete mixing in the Soils Lab. Then, when all other jobs fail, you will always have a practical trade to fall back on (which will probably earn you more wages than most Civil Engineering jobs).

To all future Civil Engineers I leave my plans for railroad trestles, with the sound advice not to commence building unless you have at your disposal the entire resources of Fort Knox.

To all Junior Civils aspiring to be “Honey Dippers” I leave my rusty buckets.

To all Junior Chemicals I leave the infamous quantitative determination of per cent phosphoric anhydride. (Whatever your result is, don’t bother to turn it in, it’s wrong.)

To all Junior Chemicals who are having trouble with their Organic experiments I leave a mystic symbol which, if inscribed on the side of your flask, is guaranteed to ward off the hex which is bothering you.

To all Junior Chemicals I leave the “Lady From Paris”, cooled by refrigeration.

To all Junior Chemicals I leave the results of my Physical Chemistry experiments, which prove beyond the shadow of a doubt that the International Critical Tables are all wrong.

To all Junior Chemicals I leave the only one-gram weight in the Quantitative Lab which actually weighs 1.0000 grams. (Rumor has it that there exists such a weight somewhere in the school.)

Zu allen Studenten der Organischen Chemie Ich lass die Bände Beilsteins hinter. Diese werden die Chemie sehr leicht machen.

To Professor Herman Estrin I leave my unbounded gratitude for his tireless assistance during my stay here at NCE.

And to all students I leave what for my money is the best Engineering College in the country.

Signed,

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What's new?

Cafeteria staff.

Favorite hobby.

Anyone want to wait three years?

When you were sophomores and could still smile.
Ad Infinitum.

The Hell with it.

One man's solution.

Tough luck.

Let 'er burn.

Lab hours.

The brass takes a look.
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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.

ENGINEER'S OATH