<table>
<thead>
<tr>
<th>THE ROSE TECHNIC—ADVERTISEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WE DO</strong></td>
</tr>
<tr>
<td><strong>THE LARGEST TAILORING BUSINESS IN THE CITY</strong></td>
</tr>
<tr>
<td>Tropicrash Suits Made Only by Sparks</td>
</tr>
<tr>
<td>$15.00 Two for $28.00</td>
</tr>
<tr>
<td><strong>ED SPARKS</strong></td>
</tr>
<tr>
<td>Tailor and Haberdasher</td>
</tr>
<tr>
<td>715 Wabash Ave.</td>
</tr>
<tr>
<td>L. D. SMITH</td>
</tr>
<tr>
<td><strong>NEWSDEALER and STATIONER</strong></td>
</tr>
<tr>
<td>We Carry a Complete Line of</td>
</tr>
<tr>
<td>Basketball, Football and Other Athletic Supplies</td>
</tr>
<tr>
<td>673 Wabash Avenue</td>
</tr>
<tr>
<td>Terre Haute, Indiana</td>
</tr>
<tr>
<td><strong>Wm. Schonefeld</strong></td>
</tr>
<tr>
<td><strong>DRUGGIST</strong></td>
</tr>
<tr>
<td>Northern Hotel Bldg.</td>
</tr>
<tr>
<td>Seventh and Big Four</td>
</tr>
<tr>
<td>New Phone 575</td>
</tr>
<tr>
<td>UNIVERSITY NOTE BOOKS, STATIONERY, Etc.</td>
</tr>
<tr>
<td>Films Developed and Printed in 24 hours</td>
</tr>
<tr>
<td><strong>RARE VALUES FOR STUDENTS</strong></td>
</tr>
<tr>
<td>Increasing costs of all necessities call for increased economy, and students will find it to the fullest degree in this</td>
</tr>
<tr>
<td><strong>Cut Price Sale of Superior Clothing</strong></td>
</tr>
<tr>
<td>The sale is now on. High Art, Sampeck, and many other good makes are cut in price from the original low prices which have always prevailed at</td>
</tr>
<tr>
<td><strong>MYERS BROS., 4th and Wabash</strong></td>
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*MENTION THE ROSE TECHNIC WHEN SPEAKING WITH ADVERTISERS*
Best Hair Cutters In Town

Stewart’s Sanitary Shave Shop
Basement
TERRE HAUTE TRUST BUILDING

More professional men eat here than anywhere else—WHY?

The Colonial Dairy Lunch
F. F. Winslow, Owner
“The One White Spot in Terre Haute”
24 South Seventh St. Terre Haute, Indiana

ANSCO
“The Amateur Camera of Professional Quality”
You will find a complete assortment of the different ANSCO models at our store. They are priced from two to twenty-five dollars.

Arthur Baur’s Pharmacy
705 Wabash Ave. T. H. Trust Bldg.

SPECIAL
DAVID WARFIELD
in
The MUSIC MASTER
MONDAY, OCT. 2nd
An Attraction Worth Keeping in Mind
GRAND OPERA HOUSE

MENTION THE ROSE TECHNIC WHEN SPEAKING WITH ADVERTISERS
THE COLLEGE FELLOW
WANTS MORE THAN A CORRECT FIT. HE WANTS STYLE AND SNAP AS WELL.

SOCIETY BRAND CLOTHES
Combine all these Good Qualities—and besides—Reasonable Prices.

M. JOSEPH'S SONS, 512-514 WABASH AVENUE

The New Hotel Deming

Sixth and Cherry Streets

EUROPEAN PLAN
Sunday Dinners $1.25 per Plate
Excellent Music

SEE THE NEW COFFEE ROOM JUST OPENED
French Pastries and Ice Cream in any Form

American Theater

THE HOME OF FEATURES
S. P. KATZENBACH, Manager

Great Northern Barber Shop

Opposite Big Four Station

Three Good Barbers

Our Work Pleases Particular People

TOLLIE SHELTON
Will Press Your Suit For 25c

WOODSIE D. FUQUA

Pleasures—
that are otherwise closed
to you are offered in a

Victrola

—Many a lonesome hour may be turned into one of enjoyment. Gems from the world’s most prominent artists are ever at your command. If you wish dance music, ragtime, songs, opera, instrumental or vocal, the Victrola will answer your desire.

The Victrola pictured is $100. Other models, at $15 to $400. Convenient payments if desired.

The Root Dry Goods Co.
"'The Best Place to Shop, After All'"
In accordance with the usual custom, this issue has been published by the members of the new staff. It is understood that this is the proper time to announce our policy for the coming year. During its twenty-six years of existence, The Technic has become so standardized that no radical changes are necessary or advisable, and it is our intention to refrain from making any serious mistakes by attempting to alter the form of the book or the nature of its contents, to any great extent. We believe that The Technic has always been a publication of which the Faculty, Alumni and Student Body could justly be proud, and it is our earnest endeavor to maintain its good reputation throughout the coming year.

The Technic unites with the Faculty, Student Body, and all the friends of Rose in wishing the members of the Class of 1917 all success in the future. Whatever part the present war may have in determining the careers of the graduates of today, we feel certain that the reputation of old Rose will be ably upheld and advanced by our Alumni of 1917.

At the present time an effort is being made by several members of the 1918 Class to install a chapter of the American Association of Engineers at Rose. In support of this movement, we are glad to offer all assistance possible through the columns of The Technic.

Organized in May, 1915, the association had for its objects “To raise the standard of ethics of the engineering profession, and to promote the economic and social welfare of engineers; (1) by affording a means for the interchange of information; (2) by maintaining a service clearing house; (3) by affording patent and legal advice; (4) by supervision of legislation; (5) by proper publicity, and (6) by creating a brotherly spirit among engineers.” The organization has enjoyed a remarkably rapid increase in membership since its founding slightly over two years ago, and the advantages it offers to those in the engineering profession indicate that its phenomenal expansion has been well deserved.

From time to time articles have appeared in this publication dealing with the compensation of engineers and the ethics of their profession; the existing conditions as brought to light in these articles are certainly far from satisfying. It has been shown that the tendency of technical men has been to specialize, almost to the point of becoming narrow, and that they have failed to push themselves forward to the position they should occupy in
the business world. As a general rule, the engineer is admittedly a very poor business man, and as a result his standing among business men is not what the responsibilities and importance of his profession should make it. In most instances, lack of co-operation on the part of technical men themselves has been cited for the chief cause of the conditions now existing, and the need of organizations to develop co-operation among engineering men has repeatedly been expressed.

Such an organization is the American Association of Engineers. However, nothing could be farther from the truth than the statement that this association is a high class union, as some have termed it. It is, in short, an organization founded for the purpose of handling the business side of engineering—that branch of the profession which has been so neglected in the past. It conducts for its members a sort of a conservative publicity campaign, not one which would conflict with the ethics of their profession, but one which will bring to the public a realization of the engineer's service to his community—a realization which results in the proper recognition of the engineer for his work. Its policy in matters of legislation is to assist legislators of the various state, municipal and national bodies to treat subjects of a technical nature with scientific enlightenment, and to take up patent and legal matters of common interest; that is, the cases of individuals the settlement of which is of interest to the engineers as a class.

That branch of the association which probably appeals most strongly to the student member is the “service clearing house.” Its object is, principally, to place the right man in the right position, on the theory that a man can do his best work and be of more service to his employer when he is performing work that is interesting to him, and for which he is especially adapted by education and experience. To the man who does not seek employment for which he is better fitted, simply because he is employed, and consequently does not get the opportunity to investigate, the association will be of invaluable assistance, as it pursues a policy of persistent watchfulness for the proper openings. These offers, presented to members of the association only in its monthly publication, *The Monad*, are indeed above the average lot from which the engineering graduate is accustomed to choose.

While a few members of this year’s graduating class joined the association as individual members, heretofore no attempt has been made to establish at Rose a permanent chapter of the organization, such as now exist in other colleges. The advantages of the chapter are so numerous that it is thought that no difficulty will be experienced in organizing a representative body at our own Institution. And success in this movement marks the first step in the co-operative plan for advancement of ourselves and our prospective profession.

Concerning the general principles which will govern exemptions from the Draft Act, Mr. David Lawrence, in the New York *Evening Post* writes as follows:

“(3) The Federal Review Boards, about fifty in all, will travel through the several judicial districts of the United States and hear and examine applicants for exemptions. The composition of the Federal Review Board is one of the most important things on which the special committee in the Provost-Marshal's office is now working. The hope is to select a leading engineer or technical man, a leading business man, and a lawyer, and possibly a labor representative, all to be men of the highest repute, indorsed, doubtless, as to character and integrity by the Federal judges.”

The fact that apparently the chairmen of the Federal Review Boards are to be technical men is of more than ordinary interest and significance. Seldom has the profession received such a recognition in the past. Since the outbreak of the war, no science has received more encouragement than that of the engineer, and at the present time the importance of the profession could hardly be overestimated. The absolute necessity for the trained engineer in time of warfare has been recognized by all who have followed closely the great conflict in Europe, and with the entrance of the United States into the struggle, Government officials have not been slow in placing technical men in the important positions where they may best serve their country. The contemplation of the selection of engineering men for positions on the Federal Reserve Boards is truly representative of the recognition which technical men are now beginning to receive in this country,—a recognition which affords us an opportunity to congratulate ourselves for having selected engineering as our future profession.
Thirty-third Annual Commencement
OF THE
Rose Polytechnic Institute
June Seventh, Nineteen Hundred Seventeen

PROGRAMME

MUSIC

INVOCATION

ALUMNI ADDRESS
Alonzo J. Hammond, '89
Chicago

MUSIC

COMMENCEMENT ADDRESS
Raymond Foss Bacon, Ph. D.
Director of the Mellon Institute of Industrial Research and the School of Specific Industries, University of Pittsburgh, Pittsburgh

MUSIC

PRESENTATION OF DIPLOMAS
William C. Ball
President of Board of Managers

AWARDING OF PRIZES

Benediction

MUSIC
THE ROSE TECHNIC.

**Thesis Presented for the Degree of Chemical Engineer, June 1917.**

Harry D. Baylor, B. S., ’07,
Waste Heat Utilization.

**Thesis Presented for the Degree of Master of Science, June, 1917.**

Max J. Hammel, B. S., ’01,
Scientific Salesmanship.

**Theses Presented for the Degree of Bachelor of Science, June, 1917.**

Richard Aitken,
Arvil M. Binhake,
Investigation of Evansville & Indianapolis Railroad Bridge over Eel River for Strength and Safety.

Lester J. Backman,
Design of a Four-Story Reinforced Concrete Building.

Edgar N. Goldstine,
Chester A. Williams,
Investigation of Strength and Stresses of Members in Three-Span Railroad Bridge of E. & I. R. R. at Flummer, Ind.

Benjamin R. Brodsky,
Commercial Utilization of Wood Waste at the Standard Wheel Works.

M. Harold Smith,
Milton Tiley,
Attempts to Produce Barium Peroxide by the Reduction of a Certain Barium Ore.

J. Lex Weeks,
The Fertilizer Value of Garbage Collected in the City of Terre Haute.

Elmer O. Austermiller,
Wayne K. Self,
An Investigation of Production and Distribution of Electrical Power at Home Packing & Ice Co.

Thomas M. Evans,
Harry W. Knox,
Design, Construction and Test of a Picou type Permeameter.

**Degrees Conferred**

June 7, 1917.

**Chemical Engineer:**

Harry D. Baylor, B. S., ’07,
Professional Record and Thesis.

Walter B. Wiley, B. S., ’09,
Professional Record.

**Electrical Engineer:**

Frederick B. Lewis, B. S., ’05,
Professional Record.

Barton R. Shover, B. S., ’00, M. S., ’05,
Professional Record.

**Civil Engineer:**

Carl B. Andrews, B. S., ’08, M. S., ’09,
Professional Record.

**Mechanical Engineer:**

Allan S. Bixby, B. S., ’02,
Professional Record.

**Master of Science:**

Max J. Hammel, B. S., ’01,
Thesis and Examination.
BACHELOR OF SCIENCE:

Chemical Engineering Course:
- Benjamin Ruvin Brodsky, Terre Haute
- Malcolm Harold Smith, Indianapolis
- Milton Tilley, Terre Haute
- James Lex Weeks, Terre Haute

Civil Engineering Course:
- Elmer Otto Austermiller, Terre Haute
- Thomas McKinley Evans, Terre Haute
- Frederick William Hild, Terre Haute
- Harry Wark Knox, Terre Haute
- Wayne Kenneth Self, Terre Haute
- Benjamin Ruvin Brodsky, Terre Haute
- Frederick William Hild, Terre Haute
- Malcolm Harold Smith, Indianapolis
- Milton Tilley, Terre Haute
- James Lex Weeks, Terre Haute
- Elmer Otto Austermiller, Terre Haute
- Thomas McKinley Evans, Terre Haute
- Frederick William Hild, Terre Haute
- Harry Wark Knox, Terre Haute
- Wayne Kenneth Self, Terre Haute

Electrical Engineering Course:
- Richard Aitken, Terre Haute
- Raymond Smith Davis, Terre Haute
- Lester John Backman, Cincinnati, Ohio
- Arvil Martelle Binbeck, Princeton
- Frederick Guy Coates, Center Point
- Edgar Nathan Goldstine, Terre Haute
- David Wentworth Holloway, Terre Haute
- Albert Harvey Lyon, Terre Haute
- Chester Arthur Williams, Rosedale

Mechanical Engineering Course:
- Floyd Smith Carpenter, Louisville, Ky.
- Richard Aitken, Terre Haute
- Raymond Smith Davis, Terre Haute
- Lester John Backman, Cincinnati, Ohio
- Arvil Martelle Binbeck, Princeton
- Frederick Guy Coates, Center Point
- Edgar Nathan Goldstine, Terre Haute
- David Wentworth Holloway, Terre Haute
- Albert Harvey Lyon, Terre Haute
- Chester Arthur Williams, Rosedale

HONORS.

The twenty-ninth award of the Hemingway gold medal for the highest standing throughout the entire course was made to Frederick W. Hild, of Terre Haute, Ind.

The bronze medal, a copy of the gold medal, offered for the highest standing during the freshman year, was awarded to Arthur P. Woolfolk, of Louisville, Ky.

Those who received honorable mention were:

SENIOR CLASS:
- Henry C. Gray, Louisville, Ky.
- Edgar N. Goldstine, Terre Haute.
- M. Harold Smith, Indianapolis.

JUNIOR CLASS:
- Goldsborough Robinson, Louisville, Ky.
- Richard F. Bergmann, Logansport.
- Herbert Hutchinson, Clinton.

SOPHOMORE CLASS:
- Simon Werbner, Terre Haute.
- Robert J. Owen, Indianapolis.
- Robin E. Woodruff, Louisville, Ky.

FRESHMAN CLASS:
- Harold C. Exline, Sullivan.
- Frederick B. Ray, Louisville, Ky.
- Norman A. Ruston, Racine, Wis.
The Position of the Technical Man in the Nation

COMMENCEMENT ADDRESS

By

RAYMOND FOSS BACON, PH. D.

Director of the Mellon Institute of Industrial Research of the University of Pittsburgh

Dr. Bacon spoke in part as follows:

American industry is at the present time in a state of auspicious transition. In the primary development of our nation economic growth signified spread of population. Then came the utilization of our natural resources. There followed the exercise of inventive genius and the resulting success with mechanism. The law of the machine eventuated in production on a large scale.

The inconsiderate use of resources is now being supplanted by conservation, and it is recognized that the mechanistic problem is not merely to devise contrivances, but to adapt them to the laws of fatigue, which play a role of prominence in modern industry. These scientific developments have culminated in new and engaging centers of interest, as well as more attractive opportunities, for the technical man.

The Principal Industrial Problem of Today.

It is evident, then, that the main problem of industry is not the unintricated extension thereof, but is the more complicated one of refining its texture. As a result of this knowledge, the administrative technique of manufacturing is receiving thorough reorganization, and leaders and lieutenants are needed who are cogent thinkers rather than vigorous drive-masters.

In particular, men of technical ability and of the scientific viewpoint are required for active participation in the formulation of business policies upon an enduring foundation of accurate knowledge. Indeed, technical management and industrial research have been installed alongside of “land, labor, and capital” as the primary wealth-producing factors.

Science and Industry.

In the vast domain of technology men of science had first to work their way from darkness into twilight and from twilight into day. In applied science, as in pure science, there is no solution of continuity, for all discoveries grow and are, like men, the products of antecedent time. Emerson pictured all intellectual progress as rhythmic; according to that savant, knowledge spreads by intermittent victories instead of progressing at a uniform rate. Scientific explanation is conditioned by knowledge, and industrial development, the purpose of rational technology, is dependent upon the constant infusion of new scientific discoveries.

Science is, in fact, the chief expositor of modern thought, and industry is the greatest exponent of action in modern life. Much is resulting from the union of the two, and, because of the apparent effect of the effect, captains of industry now maintain an attitude of profound respect for those who can assist in establishing manufacturing on a higher plane of technical efficiency.

Science has devised innumerable novel processes; it has discovered many new materials and has constructed useful instruments of precision. The various branches of engineering now reach every industry, and engineers are receiving a wide range of administrative duties in designing, erecting, and equipping manufactories. The geologist directs the miner of our metal and petroleum wealth; the chemist is the principal adviser of the operating manufacturer; the farmer has learned to consult the agronomist, and the lumberman is receiving the scientific aid of the forester. The general advance in industrial practice is revealed by the numerous laboratories and planning rooms maintained by our corporations, and by the voluminous growth of technical literature.

The Scientific Method.

“Scientific management” has for its object the impartation of greater precision and efficiency to the productive processes involved in manufacturing. The scientific method has been devised and diffused into industry by technical men using the principles of mechanical and chemical technology; but, notwithstanding brilliant results, there are numerous
opportunities for raising the average efficiency of endeavor. Many repair shops fail to show 50 per cent average efficiency as regards either labor or materials; coal wastes on railroads are often equally high; the better utilization of heat is the great problem of the refractories and ceramic industries; the average automobile only uses about 22 per cent of the energy stored up in the gasoline; investigators report a labor efficiency of only 28 per cent in the rough labor employed in steel plant yards; and several crafts require persistent study for their improvement. I hope that you are all acquainted with treatises of the type of Thompson’s “Scientific Management,” Gilbreth’s “Motion Study,” Taylor’s “Shop Management,” and Jones’ “The Business Administrator;” for the

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Some Noteworthy Inventions by American Technical Men During the Last Fifty Years.

<table>
<thead>
<tr>
<th>Invention</th>
<th>Inventor</th>
<th>Year</th>
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<tbody>
<tr>
<td>Telephone</td>
<td>Bell</td>
<td>1876</td>
</tr>
<tr>
<td>Typewriter</td>
<td>Sholes</td>
<td>1879</td>
</tr>
<tr>
<td>Cash register</td>
<td>Patterson</td>
<td>1885</td>
</tr>
<tr>
<td>Incandescent lamp</td>
<td>Edison</td>
<td>1880</td>
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<tr>
<td>Talking machine</td>
<td>Edison</td>
<td>1878</td>
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<tr>
<td>Electric furnace reduction</td>
<td>Cowles</td>
<td>1885</td>
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<tr>
<td>Electrolytic alkali production</td>
<td>Castner</td>
<td>1890</td>
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<tr>
<td>Transparent photograph film</td>
<td>Eastman</td>
<td>1888</td>
</tr>
<tr>
<td>Motion-picture machine</td>
<td>Edison</td>
<td>1883</td>
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<tr>
<td>Buttonhole sewing machine</td>
<td>Reece</td>
<td>1881</td>
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<tr>
<td>Carborundum</td>
<td>Acheson</td>
<td>1891</td>
</tr>
<tr>
<td>Calcium carbide</td>
<td>Willson</td>
<td>1889</td>
</tr>
<tr>
<td>Artificial graphite</td>
<td>Acheson</td>
<td>1896</td>
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<tr>
<td>Split-phase induction motor</td>
<td>Tesla</td>
<td>1887</td>
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<tr>
<td>Air brake</td>
<td>Westinghouse</td>
<td>1889</td>
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<tr>
<td>Electric welding</td>
<td>Thomas</td>
<td>1888</td>
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<tr>
<td>Type-bar casting</td>
<td>Mergenthaler</td>
<td>1889</td>
</tr>
<tr>
<td>Chain-stitch shoe-sewing machine</td>
<td>French &amp; Myers</td>
<td>1881</td>
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<tr>
<td>Single-type composing machine</td>
<td>Lanston</td>
<td>1887</td>
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<tr>
<td>Continuous-process match machine</td>
<td>Beecher</td>
<td>1888</td>
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<tr>
<td>Chrome tanning</td>
<td>Schulz</td>
<td>1884</td>
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<tr>
<td>Disk plows (modern type)</td>
<td>Hardy</td>
<td>1896</td>
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<tr>
<td>Welt machine</td>
<td>Goodyear</td>
<td>1871</td>
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<tr>
<td>Electric lamp</td>
<td>Brush</td>
<td>1879</td>
</tr>
<tr>
<td>Recording adding machine</td>
<td>Burroughs</td>
<td>1888</td>
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<tr>
<td>Celluloid</td>
<td>Hyatt</td>
<td>1870</td>
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<tr>
<td>Automatic knot-tying harvester</td>
<td>Appleby</td>
<td>1880</td>
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<tr>
<td>Water gas</td>
<td>Lowe</td>
<td>1876</td>
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<tr>
<td>Machine for making barbed wire</td>
<td>Glidden</td>
<td>1876</td>
</tr>
<tr>
<td>Rotary converter</td>
<td>Bradley</td>
<td>1887</td>
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<tr>
<td>Automatic car-coupler</td>
<td>Janney</td>
<td>1873</td>
</tr>
<tr>
<td>High-speed steel</td>
<td>Taylor &amp; White</td>
<td>1901</td>
</tr>
<tr>
<td>Dry-air process for blast furnace</td>
<td>Gayley</td>
<td>1894</td>
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<tr>
<td>Block signals for railways</td>
<td>Robinson</td>
<td>1872</td>
</tr>
<tr>
<td>Trolley car</td>
<td>Van Depoele &amp; Sprague</td>
<td>1884-1887</td>
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<tr>
<td>Harveyized armor plate</td>
<td>Harvey</td>
<td>1891</td>
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scientific method never retreats from any field it invades and it is the bag-and-baggage of the successful engineer. It may be mentioned in passing, however, that there is much needed in the collection of data from the new experience and the comparison of them with the facts of traditional industrialism, in order to learn whether scientific management offers to the worker real release from the unwarranted strain of his occupation. In our enthusiasm we must not overlook the nature of fatigue and its manifestations.

There are certain qualities of will, attitudes of mind and virtues of disposition which are favorable to the exercise of the scientific method, and which young engineers should seek to develop. The scientific attitude has been defined as one of candor, an intellectual frankness compounded of confidence and humility, in facing the truth and in conforming to reason.

The Demands of Science.

The home of science is the study of the mathematician, the laboratory of the experimenter, and the cabinet of the thoughtful observer of nature. It demands above all things personal concentration and resourcefulness. The exactions of technology, that is, science applied to manufacturing, are primarily identical. Different atmospheres are, however, essential to the man of science, as such, and the man of action. Accordingly, it is necessary that the places of the researcher, or scientific investigator, and of the technologist, or engineer, receive distinct consideration in satisfying the hunger for scientific control which has become so acute in all departments of practical action.

According to the experience of American manufacturers, the student of technology should in the beginning of his senior year branch more or less to a special study of the line of industrial work with which he anticipates he will later be associated. Those students possessing mechanical aptitude and those gifted for research work should be carefully selected with a view of suggesting specialization. Generally speaking, students qualified upon the completion of their undergraduate work to become research engineers and scientific investigators should be advised to devote two or three years to post-graduate study, with the object in view of qualifying them for serv-
ice in specific branches in the domain of industry. These chosen students should be strongly urged not to accept positions of an isolated nature. On account of the extraordinary technologic importance of new ideas, particular emphasis should always be laid upon finding men gifted with the genius for industrial research.

It is particularly adverse to progress to regard our technical geniuses as abnormal men; for success demands neither any peculiar conformity nor any peculiar deformity of mind, but it requires first a vision, an ideal—know what you are aiming at—and then prolonged, arduous, if not exhausting, tasks for which all your time is none too much. My distinguished predecessor, Dr. Duncan, likened the traits which make for success to the dauntless spirit of young Marco Polo. Do you say I have forgotten something? "I have forgotten the afternoon tire in the garish light of the laboratories, the hard cot at night by the laboratory table, the broken experiments, and the heart-breaking disappointments to endeavor. But so did Marco Polo, for you will look in vain through all his glowing pages for the bitter cold of the morning camp, or the intolerable heat of the desert, or of the pain of insect pests, or of his sorrow at the loss of his goods—all forgotten in the retrospect of his wonderful journey." It is so today in modern business. There are plenty of rewards waiting for those who have proven they are ready for them. The time and energy of our great captains of industry are taken up, not so much in raising capital for industrial expansion, as in finding men for our industrial organizations, men to whom they want to pay salaries of $25,000, $50,000 and $100,000. I am happy to be able to say to you that these higher executives are being more and more chosen from the ranks of the technical men. This tendency to use the technologist in places of responsibility, both in business and in government, means ever increasing opportunities to our younger engineers.

The Motive Power of Scientific Progress.

In no other human endeavor do the personal traits protrude so much as in technology, and especially in the concerted research which is so vital for the welfare of manufacturing. To illustrate, without active optimism little that is novel will be accomplished except by accident. Active optimism means enthusiasm, confidence and self-reliance; it signifies "Don't drift, work hard and don't worry." Technical men who are actively optimistic are invariably men of sympathy, loyalty, and unselfishness. It is important, therefore, that prospective technologists cultivate this correct spirit and poise, so essential for the performance of duty as members of society.

These requisites for advancement equally imply the interdependence and harmonious interaction of all constituent parts of an organization, and the subordination of the individual powers of an industrial organism to the working of the whole. In your work, get the spirit of team play. It is not given to any man, however endowed, to rise into professional splendor without the parentage of antecedent thought and without the collaborative aid of his associates.

Co-operation is always contributory to success in an industrial organization and, other conditions being equal, the valuable men are the ones who can and will co-operate with one another. In business, men succeed only as they utilize the ideas and services of other men. It follows, therefore, that the strength of an industrial staff, properly operated, should increase exponentially with its numbers, and that a fraternal spirit will play an important role in the productiveness of any business organization.

Professional Pride.

The technical men engaged in the service of industry have become conscious of their work as a social service, and their devotion to this work is intensified by the recognition that they are united in a sort of invisible brotherhood. It is, therefore, a natural result that their personal pride in individual achievements has become so elevated by consciousness of class that it has been converted into an abiding professional pride, both in engineering and in chemistry, in the laboratory and in the plant. The technologist has been obliged to contend with infinite diversity of institution and with empiricism, rule-of-thumb methods, but the general introduction of scientific methods into manufacturing is providing a novel point of attraction for him as well as for the organization he serves.
It is appropriate to remind you here that it is the duty of every technical graduate to seek membership in the professional society of his field and to contribute his best endeavor to the continuation and upbuilding of its work. Our great engineering societies possess such comprehensively planned organizations and so numerous points of contact with American endeavor, that they are adding to their present activities systematic constructive work along lines of national and international polity. The complete support of every technical man is, however, essential for the endurance of the efforts.

In conclusion, permit me to indicate that you enter the field of life,—

"That Greater Institution, the School of Practical Life, with its experimental laboratory of hard-knocks, and an ever-changing curriculum which goes on until the day when our eternal vacation begins,"—
at the most opportune time that has ever been. As technical workmen, be grateful that you are to be guided by the knowledge of experts and bow to the decisions of the great public whom you are to serve; but as fellow men acknowledge no decision save that of the divine monitor within you.

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Loyalty

ALUMNI ADDRESS

By

ALONZO J. HAMMOND, ’89

Some thirty years ago, a well known botanist was invited to deliver the address to the graduating class of the High School, of which I was a member.

In his opening he stated that he thought it was best to talk about those things of which he knew the most. He liked to ride his hobby. So he talked for an hour and a half on botany.

For four years you have been absorbing some of the knowledge and training, which predicated my own entrance into the field of Engineering; so I will not follow the injunction of the Professor of Botany. On the contrary I wish to present to you some thoughts on a subject which in the past few months has brought the word of the text prominently to the fore.

The word is "loyalty."

In its restricted sense, the definition for loyalty is devotion to a superior. The historian of the past has revealed in heroic acts which tell of a subject's devotion to a sovereign. It is a favorite topic for the orator.

It is not in this restricted sense that I wish to limit my remarks, but to the broad view as applied to all relations of trust or confidence.

You will recall the precepts of Polonius to Laertes:

"To thine own self be true,
And it must follow, as the night the day,
Thou canst not then be false to any man."

It will pay you to look up that quotation and read again all of the advice embodied therein. Nearly the whole of the philosophy of life is covered by those twenty-two lines.

In its broader sense, its greater scope, it gives me great pleasure to especially note the fine example of loyalty you, yourselves and the student body have given us in the past months, in your fidelity to Rose Polytechnic Institute.

We of the Alumni feel proud and honored to welcome you to our ranks.

For four years you have been coached, your problems have been solved under the eye of a friendly instructor.

From today and henceforth you assume an independent position, and you are to make use of the basic principles which have been instilled into your mind and character.

There has never been a period in the history of Rose Polytechnic Institute when a graduating class has stepped from her portals to en-
ter business and professional life, that the world is fraught with so momentous and gigantic problems.

The problems that confront you are as great in peaceful pursuit as those of war. In fact, this strange paradox has been held up for our consideration, that we shall be most effective in winning this world war by our own peaceful pursuits. Democracy is on trial. Will the test of time show it superior to Autocracy?

It is not all an economic question; we have our ideals and must live up to them. There are other things in life besides a daily ration of pork chops and onions. Be loyal then to your ideals. Let not the glamour of wealth, position, or power traduce your character.

As the trend of modern business is towards corporate control, your immediate engagements, to a greater extent than heretofore, no doubt, will be of a corporate nature. Of the Class of 1916, I note that 95 percent are with corporations.

Not many of you will become heads of departments at once, but you will be in line. How soon you will become such department heads, or the head of your own business, will rest largely with your individual energy, push, tact and native ability. It will also depend on your salesmanship—of supreme importance to you is the selling of your own ability, and much as you must think of your obligation to your employer, do not lose sight of the fact that you also have something to sell.

In the modern well organized business, men are kept in line, trained for the work ahead of them; so in case of a change of personnel in the force, there will be a successor ready and familiar with the work.

In such engagements comes the test of loyalty, not only to your employer, but to your associate to whose position you may be advanced. The greater success will be yours by unwavering fidelity to your trust. Over-ambitious and unscrupulous men have often gained their advancement by riding rough shod, or by using tricks of business, but they either later fail in their ultimate goal, or else are held up to scorn by their associates in case they are successful.

Do not let your desire to sell your own services work an injury to your associates.

Be loyal to yourself. How? By the greatest use of the academic training you have just completed. You have learned how to study; at least, I hope you have. Consequently, your education has just begun. To make the most of your native ability and your collegiate education should be your great ambition.

Work! Work!! Work!!! The drone in the hive produces no honey. Neither will you occupy a place of honor and preferment without unremitting toil.

You have heard the free use of the word “efficiency.” You have tested the efficiency of prime movers; you have perhaps held the stop watch on a mechanic engaged in physical labors. Your computations deal in man power. What about the efficiency of your mental processes? Have you tried the stop-watch on your gray matter?

Sometimes zealous effort is hoist on its own petard—but not often.

Well do I remember a lesson in Calculus assigned by Professor Waldo in my junior year. There were forty problems, and the test was to have them all by the next day. They were not easy and besides required long processes for solution. I felt satisfied the other members of the class would not get more than half of them, so I concluded to get them all and rest on my laurels, while the others worked at them to catch up. At three o’clock in the morning I had them. The class met at ten, and inquiry was made of each member as to the number of problems solved. They ranged from five up to fifteen. I chuckled. Imagine my disappointment when the Professor announced that as Hammond had them all, he would pass to the next chapter.

So efficiency methods may be overdone. A few years ago an eminent Engineer related to me a remarkable example of over-reaching in efficiency methods, which had come under his observation. An eastern manufacturing plant was expending nearly as much in efficiency, investigations, analyses, and reports as the production cost of the plant output.

I am not decrying efficiency methods, nor belittling the need of such studies. I would not be true to my own experience if I did. For two years I was engaged in such work in the second city of this country. Notable results were apparent from our efforts. We were zealous, perhaps too much so. One of our criticisms was directed to the use of rubber stamps for attaching the signatures of important officials.

One of the Members of our Efficiency Committee is now Commissioner of Public Works
of the said Second City, and the other day I had thirty drawings before him for his personal signature. As he signed, he smiled at me and remarked that there were occasions when he wished we had not been so severe with our criticisms of the rubber stamp.

This brings to mind a remark made several years ago by a speaker at Commencement, from possibly this platform; that you should abhor municipal employment. I have always felt the statement was made with a very inadequate knowledge of municipal conditions. Having held positions of trust and responsibility in our second largest city, and with other large cities, and also similar corporate positions, I say to you that the openings are equally attractive to men of sterling worth and character.

You can remain true to your ideals, to your family, and state, in either classification, or you can go wrong in either case. You must necessarily depend on your own strength of character, devotion to duty, and independence of action to avoid the pitfalls which beset you.

Nearly twenty years ago, Indiana made great strides by adopting the Australian ballot. Later it was made a crime for a voter to accept money for his vote, but it took a long while for the Legislature to reach the sticking point of making the man who pays for a vote equally guilty with he that accepts.

We have been gradually raising the standard of business morality and honor. To offer a rebate now is equally discreditable as the acceptance. But do not think the millennium is here. Less and less applicable, however, is the homely business precept of David Harum, "Do unto the other feller, the way he'd like to do unto you, an do it fast."

If you have proper inspection of any commercial product from steel rail to a piece of linen mesh, you will probably get what the standard specifications call for. But free your mind from any delusions that all the rails or linen mesh below standard specifications goes into the discard. Not now. Some one less careful in inspection will get them. Some time we may be as strict as to all manufactured products as we are now with food products.

It is such men as you, forcing the issues of square dealing, who will advance our ideals of citizenship.

Such advancement will be more rapid as you enlist your services, and yourself, more and more into public affairs. Do not be too modest and retiring in your technical solution. Study the human problem and actively share in the responsibilities of state. Be a politician if you please. You will thus not only be loyal to yourself, and to your State, but to your fellow man; as by education, by training, and experience, you will be well fitted to fairly judge the many problems which arise in our complex civilization.

Of the 3,526 members of the American Society of Civil Engineers, only 31, or less than 1% are filling executive governmental positions.

That there is a legitimate field for Engineers to fill executive positions in our municipal and State Commissions and Boards is well illustrated by the recent demand for Engineers as City Managers.

A fair knowledge of business accounting and finance is of inestimable value in your equipment; together with these qualifications, add that of public speaking, which will add greatly to your ability in the presentation of your Engineering reports.

Your written reports frequently must be augmented with verbal expositions to elucidate to some thick-headed directors the advantages of your plans. Your arguments must be presented in clear, concise, but illuminating English, to be convincing.

That Engineers as a class are not effective public speakers is well illustrated at the after luncheon talks of an Engineers Club, of which I am a member. We seldom get an Engineer who is a ready talker, whose treatment of his subject is attractive, and who can appeal to his audience and hold their continued interest, and win their applause.

We get lawyers, doctors, publicists, most of whom are able to deliver their message in an effective and pleasing manner. Why not the Engineer? I have in mind one who cultivated the art as shown by the following incident:

A few years ago I was engaged to develop the Engineering evidence in some very important legislation. I had engaged two other well known Engineers to co-operate as expert witnesses. As the case was called one of these engineers landed in New York after a trip to Europe. I wired him to come on at once; we were to pay him $100.00 per day for his services. He wired back that he would be a week late, as he desired to go down the Mississippi River on a junket with some Congressmen, Senators and other public men. He was get-
ting no fee for this, but my other expert re-
marked that he would have $500 worth of talk
on that trip.

It is, therefore, most desirable that you
early practice in the use of your voice. Learn
to think on your feet and do your own talking.
It will be a great asset.

This is very clearly illustrated in the legal
profession. We know the names of many trial
lawyers and corporation lawyers appearing
before the public bodies. But the office lawyer,
the man behind the gun, is not so well known.
his name does not appear at the head of his
firm, nor are his emoluments so great.

Recall the scene in Dickens’ “A Tale of Two
Cities,” where Mr. Stryver, the advocate, de-
plied on Sydney Carton to work up his
cases, and thus gained a great reputation of
getting at the pith and marrow of his busi-
ness, while Carton, with his jug of cold water,
a basin, and a wet towel around his head,
worked out the problem at hand, and was re-
warded with a bumper of punch.

I cannot leave Carton, however, without
commenting on his sacrifice, his loyalty to his
friends. The simple and noble way in which
he substituted his own head to the guillotine
to preserve another, for one he loved, barely
has been equalled in the annals of the world’s
history.

For a time after you leave the scenes and
environment of the past four years you will
be thoroughly alive and interested in the wel-
fare of your Alma Mater. You will come
back to Commencement Exercises with a relish
and a joy.

To keep yourself young in mind, in heart
and association, get the habit of keeping in
touch with the Commencement Season. Time,
distance, and cares of business will all tend
to alienate your present affections, or at least
to reduce their warmth, to some extent; but
keep in touch with Rose graduates wherever
you are. Join the local clubs; these will aid
materially in holding fast your present at-
tachment.

You will thus put yourself in line so that
at the closing period of a highly honorable,
successful, and prosperous career, when your
bank account is phlethoric and you cannot
spend your income, you may again display
your loyalty to your Alma Mater by erecting
a tablet, endowing a chair, or establishing a
department for scientific research.

Address of W. C. Ball on Awarding Diplomas

MR. PRESIDENT, LADIES AND GENTLEMEN, AND

ESPECIALLY YOU GENTLEMEN OF THE CLASS

OF 1917:

Not what is done and said at these com-
 mencement exercises, admirable as have been
the two addresses to which you have just list-
ened, but what you have done at the Rose
Polytechnic Institute during the four years
you have been in attendance is the real signifi-
cant thing on this occasion. Your work has
been the reality. Each recurring year has
emphasized the necessity of extreme care in
seeing that each and every diploma is an abso-
lutely truthful statement of work done. It is
a letter of introduction for you to any and
every man who owns a ladder you may want
to climb.

So your success in the beginnings of your
careers will depend not only on what you have
done and learned at the Rose, as proved by
your diplomas, but on the good work in the
world of all the older Rose alumni. You are
going out into the world at a most favorable
opportunity for men of your training. Just
now the world is realizing as never before the
vital need of engineers of all classes for suc-
cess in war as well as in peace.

Of course the wild orgies of savagery and
destruction, into which the whole mad world
has plunged, cannot last indefinitely. But
while it does last we must match engineering
skill with engineering skill.

But your uplifting careers will begin when
the democracies of a sane world shall set about
in chastened spirit to bind up the wounds of
war and restore what it mutilated and de-
stroyed. Bridges and roads must be built,
railroads reconstructed, ruined towns rebuilt,
factories equipped, desecrated cathedrals re-
stored, mines reopened, libraries and hospitals
and orphanages and all the thousand and one
things of utility and beauty that the world had
and now has not, it must have again bigger, better and more beautiful.

During the last few weeks, so recently that the echoes of it have scarcely died away, you have been witnesses of and participants in a very remarkable campaign in behalf of the institution—a campaign on which its future depended and the successful conclusion of which insures that future. When you come back to your first class reunion your Alma Mater will be located on the beautiful new site east of town.

The financial campaign was almost a better thing for Terre Haute and her citizens than for the Poly, great as this last was. It gave the people of the town a better knowledge of and keener and more abiding interest in the Institute than they ever had before. For it is true that where our treasure is our hearts will be also. They gave liberally and loyalty and their hearts and hopes went with their gifts. But splendid as was the spirit shown by the townspeople, the alumni and the under-graduates showed a finer feeling. This was not strange. Rose was their cherishing mother. And they rallied round their Alma Mater as loving sons fling themselves into the arms of the mothers who gave them birth.

And of all who ever gave gifts, young gentlemen, none ever did a graceful and gracious thing in finer fashion than you men of the class of 1917 in your pledges to the alumni fund. In the name of all identified with and interested in Rose, I thank you for it.

ALUMNI NOTES.

Raymond N. Hickman, '11, and Mrs. Samuel A. Morrison, of New York City, were married on June twenty-first.

An announcement of the marriage of J. Mercer Beauchamp, '13, to Miss Elsie Patterson, of New Dorp, New York, has been received.

In addition to the list of Rose men who have applied for commissions in the Officers' Reserve Training Camps throughout the country, published in the May TECHNIC, the following alumni have applied for commissions in the August camps: F. H. Reiss, '08, Bernard O'Brien, '09, H. R. Woodward, '15; C. S. Duddleston, '15, has applied for a commission in the aviation section; F. W. Bringham, '14, R. E. Finley, '16, J. S. Gillum, '15, A. C. Hansen, '14, and Gordon B. Meyers, '14, are at present stationed at various training camps. Warren R. Cox, '14, has applied for service in one of the Red Cross Ambulance Units.

John D. Galloway, '89, of San Francisco, has received a commission as major in the engineering section of the Officers' Reserve Training Corps.

John E. Bernhardt, '08, formerly Assistant Engineer, C. & E. I. R. R., at Chicago, has been appointed Bridge Engineer of that company, with offices at Chicago.

Frank M. O'Laughlin, '14, is now with the Northern Pacific R. R., at Sand Point, Idaho.

Maurice R. Denny, '14, and Miss Marie Williams, of Terre Haute, were married on July 3.
The thirty-first annual meeting of the Rose Polytechnic Alumni Association was called to order by President R. L. McCormick, '91, in the Freehand Drawing room of the Institute at 3:15 p. m., June 7, 1917.

The minutes of the last meeting were read, and on motion of Mewhinney, '91, seconded by Wiley, '89, were approved as read.

The Treasurer then presented the following report:

To the Rose Polytechnic Alumni Association:
I herewith submit the following Treasurer's report for the year ending June 5, 1917.

**ALUMNI FUND.**

**Receipts.**
- Bal. on hand, June 7, 1916 $380.01
- Dues for 1915–16 since last report $59.00
- Dues for 1916–17 $237.00
- Total receipts $676.01

**Disbursements.**
- To Election Committee $43.81
- To Executive Committee 45.28
- Current Expenses of Secretary:
  - Banquet Deficit 31.00
  - Traveling expenses of Representative to Board Meetings 12.14
  - Printing, postage, clerk and misc. 88.55
  - Technic for annual report 75.44
- Total disbursements $294.22
- Balance on hand in Alumni Fund, June 5, 1917 $381.79

**BANQUET FUND.**

**Receipts.**
- Cash received from Banquet $232.50
- Cash from Alumni Fund 31.00 $263.50

**Disbursements.**
- Hotel, waiters, cigars 237.90
- Menus 15.60
- Flowers 10.00 $263.50

**LOAN FUND.**

- Bal. on hand, June 7, 1916 $955.73
- Interest on bank deposits 30.08
- Interest on Loan No. 3 15.00
- Interest on Loan No. 9 3.00
- Bal. on hand June 5, 1917 $1003.81

**Bills Receivable.**
- Bal. on hand June 7, 1916 $525.00
- Loan No. 12 25.00
- Loan No. 13 35.00
- Total $585.00
- By cash, Loan No. 9 50.00
- Bal. on hand, June 5, 1917 $535.00

**ROSE TECHNIC SUBSCRIPTIONS.**

- Subscriptions received $114.00
- Paid to Bus. Mgr. of Technic $114.00

**FUNDS ON HAND.**

- Loan Fund, June 5, 1917 $1003.81
- Alumni Fund, June 5, 1917 381.79 $1385.60
- Bills receivable, June 5, 1917 535.00
- Cash Balance $850.60

**CASH IN BANKS.**

- T. H. Trust Co., Savings Dept. $724.75
- T. H. Trust Co., Checking Act. 125.85 $850.60

Cash on hand, June 5, 1917 $850.60

Respectfully submitted,
CARL WISCHMEYER,
Secretary-Treasurer.

On motion of Peddle, '88, seconded by Tinsley, '92, the Treasurer’s report was accepted.

At this point the election committee retired to count the ballots, and the roll was called, with the following men present:
- '86, Foltz, Parkhurst, Scott and Wilkin; '88, Peddle; '89, Hammond and Wiley; '91, McCormick and Mewhinney; '92, Bixby, Fogarty, Layman, Oglesby, Ott, Tinsley and Wickham; '93, Johonnott; '94, Royse; '95, Hammel and Schwartz; '96, Arnold; '97, Larkins; '98, Modesitt, Rotz, Thurman, White and C. Wischmeyer; '97, Routledge; '98, Stock; '99, Wilson; '00, Standau and Stokes; '01, W. H. Evans, Fitzpatrick, Harries, Newhart and Shook; '02, Albrecht and B. L. Heer; '03, Buck, Gray and Kelley; '04, Coltrin, Harris, LeForge and Tygart; '05, Arnold, Brauns, Duddleston, Smith and Sullivan; '06, Carter and Manson; '07, Aitken, Austermiller,
THE ROSE TECHNIC.


The Election Committee reported as follows:

To the Members of R. P. I. Alumni Association:

Your Committee on Election hereby submit their report as follows:

In response to request for nominations for candidates for Representative on the Board of Managers, 168 replies were received. A. J. Hammond, '89, received 38 votes; John T. Wilkin, '06, received 38 votes; W. H. Insley, '00, received 26 votes; S. S. Roberts, '93, received 26 votes; A. S. Bixby, '92, received 23 votes; scattered among seven others, 8 votes. Total 168.

On final vote for Alumni Representative, A. J. Hammond, received 204 votes; John T. Wilkin, received 141 votes.

For President and Vice-President, W. B. Wiley, '89, received 81 votes; W. B. Shook, '11, received 52 votes; A. M. Hood, '93, received 76 votes; H. A. Schwartz, '01, received 41 votes; Claiborne Pirtle, '98, received 65 votes.

Respectfully submitted.

Charles E. Scott,
Max J. Hammel,
E. S. Johonnott,
Committee on Election.

June 7, 1917.

Whereupon Mr. A. J. Hammond, '89, was declared elected Alumni Representative on the Board of Managers; W. B. Shook, '11, President for the coming year, and W. B. Wiley, '89, Vice-President. Mr. Shook responded briefly thanking the Association for the honor conferred upon him.

All members of the Association who won their letters in athletics while in school, also those who took part in athletics before the practice of awarding R's was begun, are being organized into an "R" Association by Mr. Gilbert, Athletic Director at the Institute. These men were excused from the meeting in order to perfect their organization.

President McCormick called attention to the fact that the Alumni Loan Fund at present has only a little over four hundred dollars cash available, and that, due to the summer session of the Institute, a number of students who otherwise would have earned money during the vacation would be obliged to borrow money. For this reason the calls on the fund during the next year were likely to be heavier than usual. Moved by Foltz, '86, that the Secretary issue a call for further donations to the loan fund if it becomes necessary. Seconded by Hammond, '89, and carried.

Mewhinney, '91, read a letter from Insley, '00, in which he expressed himself as being opposed to the idea of placing tablets or other memorials in the new Institute bearing the names of those of the Alumni who had given large amounts to the building fund. Royse, '94, on behalf of the Board of Managers, stated that so far as he knew, no such action was contemplated in regard to Alumni subscribers to the fund. Promises had been made to citizens of Terre Haute that lecture rooms, laboratories, etc., would be named for men who gave certain amounts, and it was the intention to make out a list of all Alumni who subscribed and place this list in the cornerstone of the new building. After further discussion, Foltz, '86, made a motion, and it was seconded by Fogarty, '92, amended by Mewhinney, '91, and again amended by Layman, '92, In its final form the motion read as follows:

Resolved, that the Alumni Association in assembly respectfully waives the courtesy extended to individual Alumni subscribers to the new Rose Institute, of naming assembly rooms, etc., after individual Alumni subscribers, and suggests to the Board of Managers that if any recognition be given to the Alumni body it be in the form of the naming of a single building for the Alumni as a whole, this however, to be entirely at the discretion of the Board. Carried unanimously.

Hammond, '89, suggested that there are a number of men who had attended Rose, but not graduated, but who have since attained enviable positions in the engineering profession, and suggested that it would be fitting for the Institute to give them some form of recognition, probably in the form of an honorary or professional degree. In the discussion which followed, participated in by Wiley, '89, Fogarty, '92, Schwartz, '01, Wischmeyer, '06, Layman, '92, Wilkin, '86, Johonnott, '93 and Peddle, '88, it became evident that the prevailing opinion was that it would be desirable to give some recognition to such men, but that the Association and the Institute authorities should be careful not in any way to detract from the meaning and value of a degree granted by Rose. On motion of Hammond, '89, seconded by Schwartz, '01, and amended
by Layman, '92, the Officers of the Association were instructed to appoint a carefully chosen committee of five members, who were to confer with the Faculty and authorities of the Institute, and report to the membership by letter or at the next Annual Meeting, it being the sense of the meeting that it would be desirable to give some form of recognition to non-graduates who had made good records in the engineering profession.

The proposed amendments to the Constitution were then brought up by the Secretary, and Article III, section 1, as amended was adopted, on motion of Tinsley, '92, seconded by Fogarty, '92. When section 2 was brought up for discussion, Hammond, '89, seconded by Layman, '92, moved that the entire matter of amending the constitution and by-laws be referred to the same committee of five. This motion brought forth considerable discussion, as some were in favor of immediate action; Layman then amended the motion to the effect that the committee must report not later than November first, 1917, and that the Secretary take a letter ballot on the recommendations of the committee.

President McCormick asked for some action in reference to the date of the next meeting of the Association, as the Class of 1918 will be graduated in January. On motion of Tinsley, '92, seconded by Peddle, '88, the decision was left with the Executive Committee.

Moved by Hammond, '89, that the Secretary be instructed to convey to Mrs. Burton the thanks of the Association for her services, and to accompany same by a handsome floral token. Seconded by Tinsley, '92 and carried.

Moved by Wiley, '89, and seconded by White, '06, that the Association thank Mr. Hammond for his able and interesting address at the exercises in the morning. Carried by a rising vote.

Moved by Johonnott, '93, and seconded by Tinsley, '92, that the Association extend a vote of thanks to Messrs. Royse, Heer, Cox, Hammel and Mewhinney for their services in connection with the Terre Haute campaign for the building fund. Carried over the protest of Royse, '94.

The following men were nominated for the office of President and Vice-President, to be voted on next year: Wiley, '89, Fogarty, '92, Royse, '94, B. L. Heer, '12 and Standau, '10.

The following were nominated and elected to serve as Executive Committee for 1917-18: Peddle, '88, Foltz, '86, and Hammel, '01.

The Election Committee for the year was elected as follows: Scott, '86, McCormick, '91, and Johonnott, '93.

On motion of Schwartz, seconded by Foltz, the Class of 1917 was admitted into membership in the Association. Carried by a rising vote.

Gray, '13, then reported briefly on the organization of the "R" Association, with the object of furthering athletics at Rose. Gray, '13, was elected President, and C. Wischmeyer, '06, Secretary-Treasurer.

Meeting adjourned at 5:20 P. M.
in which Wente beat all comers up to the final round. Schwartz, '01, presided as Toastmaster in the absence of President McCormick, and called informally upon a number of the Alumni and guests, among them Dr. Mees, Mr. Ball, Prof. Wagner, Prof. Hathaway, Wilkin, '86, Layman, '92, Tinsley, '92, Fogarty, '92, Snider, '05, Foltz, '86, Dr. White and Mr. Ketchum. The members of the graduating class put on a "class meeting" in which a number of hits were scored.


With a total nearly seventeen per cent. in excess of the amount originally sought, the alumni campaign came to its scheduled conclusion on Thursday, June 7—Commencement Day.

While subscriptions doubtless will continue to come in from scattered alumni for a week or two, the above total represents the campaign result at the time previously decided upon for the wind-up.

Rose men have every reason to be proud of the splendid showing made in this campaign—a showing which, it is believed, is superior to that of the alumni of any other college or university in any similar movement.

More than sixty-five per cent. of all Rose graduates have done their share by giving to the fund which is to rebuild their Alma Mater. The average subscription is well above $300. In these respects, as well as in others, graduates of the Institute have established records which are not likely to be surpassed.

Some idea of the far-reaching effects of the alumni campaign may be had when it is realized that subscriptions have come to Rose from her sons in thirty-six different states and from four foreign countries. One or more pledges have been received from Hawaii, Honduras, Cuba, Brazil, and from all but twelve of the American commonwealths.

Since the publication of the last report in the May issue of The Technic, the following subscriptions have been received:

George R. Wood, '92 .................................. $2000
H. Stilson Hart, '93 ................................ 1000
Nathaniel P. Burt, '99 ................................ 500
James Farrington, '96 ................................ 500
John J. Kessler, '97 ................................ 500
Charles K. Stieg, Ex-'92 ............................. 400
Luis Bogran, '07 ...................................... 300
Clinton B. Kidder, '88 ................................ 300
J Edward Dally, '03 ................................ 250
William J. Ehrsam, '92 ............................... 250
Frederick N. Hatch, '06 ................................ 250
Leslie L. Helmer, '01 ................................ 250
Frank N. Hibbits, '87 ................................ 250
Herbert H. Holding, '89 .............................. 250
John E. Hubbell, '98 ................................ 250
Francis W. Hurlbert, '91 .............................. 250
The teams and class secretaries continued in the closing weeks the splendid work which marked the earlier stages of the campaign. Every team turned in a considerable number of pledges in this final period, and the secretaries showed that their efforts with their classmates had been decidedly worthwhile.

Chicago closed the campaign retaining first place in number and amount of subscriptions. The Eastern team made distinct gains and wound up in second position in total amount. Pittsburgh has first place in the percentage column, with Terre Haute second.
Alumni in Pledges

<table>
<thead>
<tr>
<th>Team</th>
<th>District</th>
<th>Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago</td>
<td>142</td>
<td>94</td>
<td>$23,575</td>
</tr>
<tr>
<td>Eastern (New York)</td>
<td>80</td>
<td>42</td>
<td>$21,700</td>
</tr>
<tr>
<td>Southern (Louisville)</td>
<td>71</td>
<td>38</td>
<td>$19,375</td>
</tr>
<tr>
<td>Cleveland</td>
<td>64</td>
<td>38</td>
<td>$17,900</td>
</tr>
<tr>
<td>Terre Haute Alumni</td>
<td>88</td>
<td>70</td>
<td>$16,950</td>
</tr>
<tr>
<td>Indianapolis</td>
<td>77</td>
<td>49</td>
<td>$14,650</td>
</tr>
<tr>
<td>Pittsburgh</td>
<td>51</td>
<td>45</td>
<td>$12,500</td>
</tr>
<tr>
<td>Missouri Valley (St. Louis)</td>
<td>56</td>
<td>33</td>
<td>$10,426</td>
</tr>
<tr>
<td>Cincinnati</td>
<td>47</td>
<td>34</td>
<td>$6,545</td>
</tr>
<tr>
<td>Schenectady</td>
<td>40</td>
<td>27</td>
<td>$5,200</td>
</tr>
<tr>
<td>California</td>
<td>30</td>
<td>10</td>
<td>$3,475</td>
</tr>
<tr>
<td>Class Secretaries</td>
<td>107</td>
<td>39</td>
<td>$2,200</td>
</tr>
<tr>
<td>Senior Committee (Dr. Mendenhall)</td>
<td>1</td>
<td>1</td>
<td>$500</td>
</tr>
<tr>
<td>Alumni Totals</td>
<td>878</td>
<td>554</td>
<td>$164,696</td>
</tr>
<tr>
<td>Undergraduates Subscriptions</td>
<td>151</td>
<td>144</td>
<td>$10,425</td>
</tr>
<tr>
<td>Grand Totals</td>
<td>1029</td>
<td>698</td>
<td>$175,121</td>
</tr>
</tbody>
</table>

In the above table, as in the other tables published herewith, no account is taken of such graduates as may be out of reach of the Institute; nor are non-graduates included other than those who have retained their identity as Rose men.

The following table shows the class percentages in regard to subscriptions during the alumni campaign. No account is taken of non-graduates, nor does the table include such graduates as are out of the reach of the Institute through failure to keep the office advised as to their address. The classes are ranged in order of percentage:

<table>
<thead>
<tr>
<th>Class</th>
<th>Total Membership</th>
<th>Sub.</th>
<th>Non-Sub.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1915</td>
<td>40</td>
<td>35</td>
<td>5</td>
<td>.875</td>
</tr>
<tr>
<td>1889</td>
<td>7</td>
<td>6</td>
<td>1</td>
<td>.857</td>
</tr>
<tr>
<td>1912</td>
<td>35</td>
<td>29</td>
<td>6</td>
<td>.829</td>
</tr>
<tr>
<td>1910</td>
<td>28</td>
<td>23</td>
<td>5</td>
<td>.821</td>
</tr>
<tr>
<td>1916</td>
<td>41</td>
<td>32</td>
<td>9</td>
<td>.780</td>
</tr>
<tr>
<td>1911</td>
<td>45</td>
<td>35</td>
<td>10</td>
<td>.778</td>
</tr>
<tr>
<td>1914</td>
<td>41</td>
<td>31</td>
<td>10</td>
<td>.756</td>
</tr>
<tr>
<td>1887</td>
<td>8</td>
<td>6</td>
<td>2</td>
<td>.750</td>
</tr>
<tr>
<td>1891</td>
<td>14</td>
<td>10</td>
<td>4</td>
<td>.714</td>
</tr>
<tr>
<td>1899</td>
<td>45</td>
<td>32</td>
<td>13</td>
<td>.711</td>
</tr>
<tr>
<td>1890</td>
<td>45</td>
<td>30</td>
<td>5</td>
<td>.708</td>
</tr>
<tr>
<td>1892</td>
<td>24</td>
<td>17</td>
<td>7</td>
<td>.708</td>
</tr>
<tr>
<td>1901</td>
<td>16</td>
<td>11</td>
<td>5</td>
<td>.688</td>
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<tr>
<td>1894</td>
<td>15</td>
<td>10</td>
<td>5</td>
<td>.667</td>
</tr>
<tr>
<td>1886</td>
<td>12</td>
<td>8</td>
<td>4</td>
<td>.667</td>
</tr>
<tr>
<td>1885</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>.667</td>
</tr>
<tr>
<td>1917</td>
<td>26</td>
<td>17</td>
<td>9</td>
<td>.654</td>
</tr>
<tr>
<td>1899</td>
<td>16</td>
<td>10</td>
<td>6</td>
<td>.625</td>
</tr>
<tr>
<td>1888</td>
<td>8</td>
<td>5</td>
<td>3</td>
<td>.625</td>
</tr>
</tbody>
</table>

Following is the record by classes, in number and amount of pledges. The class of 1892 leads, with 1886 second in amount:

<table>
<thead>
<tr>
<th>Class</th>
<th>Members</th>
<th>Pledges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grad.</td>
<td>Non-Gr.</td>
<td>Number</td>
</tr>
<tr>
<td>1885</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>1886</td>
<td>12</td>
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</tr>
<tr>
<td>1887</td>
<td>8</td>
<td>6</td>
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<tr>
<td>1888</td>
<td>8</td>
<td>5</td>
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<tr>
<td>1889</td>
<td>7</td>
<td>6</td>
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<tr>
<td>1890</td>
<td>12</td>
<td>2</td>
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<td>1891</td>
<td>14</td>
<td>4</td>
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<tr>
<td>1892</td>
<td>24</td>
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</tr>
<tr>
<td>1893</td>
<td>17</td>
<td>4</td>
</tr>
<tr>
<td>1894</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>1895</td>
<td>15</td>
<td>4</td>
</tr>
<tr>
<td>1896</td>
<td>21</td>
<td>11</td>
</tr>
<tr>
<td>1897</td>
<td>23</td>
<td>12</td>
</tr>
<tr>
<td>1898</td>
<td>19</td>
<td>11</td>
</tr>
<tr>
<td>1899</td>
<td>16</td>
<td>11</td>
</tr>
<tr>
<td>1900</td>
<td>14</td>
<td>7</td>
</tr>
<tr>
<td>1901</td>
<td>16</td>
<td>13</td>
</tr>
<tr>
<td>1902</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>1903</td>
<td>37</td>
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<tr>
<td>1904</td>
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<tr>
<td>1905</td>
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<td>1906</td>
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<td>1907</td>
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<tr>
<td>1908</td>
<td>32</td>
<td>22</td>
</tr>
<tr>
<td>1909</td>
<td>45</td>
<td>32</td>
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<tr>
<td>1910</td>
<td>28</td>
<td>26</td>
</tr>
<tr>
<td>1911</td>
<td>45</td>
<td>36</td>
</tr>
<tr>
<td>1912</td>
<td>35</td>
<td>29</td>
</tr>
<tr>
<td>1913</td>
<td>30</td>
<td>21</td>
</tr>
<tr>
<td>1914</td>
<td>41</td>
<td>32</td>
</tr>
<tr>
<td>1915</td>
<td>40</td>
<td>31</td>
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<tr>
<td>1916</td>
<td>26</td>
<td>21</td>
</tr>
<tr>
<td>1917</td>
<td>43</td>
<td>42</td>
</tr>
<tr>
<td>1918</td>
<td>37</td>
<td>34</td>
</tr>
<tr>
<td>1919</td>
<td>71</td>
<td>68</td>
</tr>
</tbody>
</table>

HE Ambulance unit sent from Cornell University last February was the first group of Americans to carry the American flag, and to be armed under that flag, in France. Upon arriving in Paris, on May 15th, they received a great ovation in the French capital.

Each of five classes of Williams College graduates, 1887, 1889, 1892, 1897 and 1906, has unqualifiedly pledged $200 in order to raise a fund for an ambulance unit at the French front, to be known as “The Williams College Ambulance of the Reunion Classes of 1917.”

The declaration of war brought about numerous changes in the Civil Engineering Course at Case. In place of the usual Mechanical Drawing, the lower classes are studying map sketching. The Junior Civils are also to do some map sketching, and, in addition to military tactics, they are to study another text entitled “Engineering in War.” The Mechanics are studying the manufacture of shells and shrapnel. As in many other schools, the enrollment has steadily been decreasing, fifty men having gone on farms, while an equal number are to enter the Reserve Officers’ training camps.

Harvard’s Athletic Association is $50,000 to the good, as a result of the bugle call that has summoned the nation to war. This large surplus, due to receipts from last season’s football, remains as a consequence of the abandonment of intercollegiate athletics, occasioned by the entrance of the United States into the world conflict. It has been suggested that this sum be invested in government bonds or else be used in some other way to aid the nation in the present emergency. Harvard’s football receipts last fall were over $150,000. Out of the remaining balance, $60,000 or more has been expended upon sports which are not self-sustaining, such as fencing, soccer, gymnastics, wrestling, and swimming, and improvements.

The War Department has selected six schools in the country to offer instruction in aviation. Ohio State, Illinois, California, Texas, Cornell and Massachusetts Institute of Technology are the schools selected for this purpose.

Beloit alumni recently raised a fund of $10,000 to send six men with full ambulance equipment to join the American Ambulance Service in France. The men were expected to sail this month.

Statistics show that approximately forty-five per cent of the undergraduate students of the University of Chicago are taking the work in military drill in Reserve Officers’ training camps.

All male students of Ohio University except those taking engineering and those in the graduating class were dismissed from May 22nd to June 4th, to assist in farm labor or to engage in some other productive employment.

An unexpected feature of the effort to mobilize the technical men of this country has been the additional offer of the men to turn over their complete laboratories, together with the working staffs, to the Government for whatever research work may be needed. Among the State and college laboratories placed at the disposal of the Government are, Minnesota School of Mines, Minnesota Mines Experiment Station; Clark University, Worcester, Mass.; New York State School of Clay Working and Ceramics, Alfred University, Alfred, New York; Department of Chemistry, University of Texas, Austin, Texas; University of Cincinnati, Cincinnati, Ohio; Department of Chemistry, Louisville University, Louisville, Ky.; State Board of Health Laboratory, Ohio State University, Columbus, Ohio; Johns Hopkins University, Baltimore, Md.; and the shops and laboratories of Rose.
Summer School for the Class of 1918

Following the recent conference of the advisory commission of the Council of National Defense at Washington, an account of which was published in the May issue of The Technic, arrangements have been made whereby the Class of 1918 will graduate in January, 1918, instead of the following June. This action was taken by the Faculty in accordance with the suggestion of the commission that “all colleges and universities should so modify their calendars and curriculae as will most fully subserve the present needs of the nation, and utilize most profitably the time of the students and the institutional plants, forces and equipments.” Technical schools, particularly, were advised to speed up the work of their institutions, in order that the upper classes might be graduated sooner than under the usual arrangements.

With this end in view, a committee composed of Professors Peddle, McCormick and Knipmeyer was appointed by the Faculty at their meeting of Thursday, May 17, to draw up several tentative forms of schedules for discussion at a later meeting. The committee arranged several schedules for the 1918 Class, providing summer sessions of from six weeks to practically the entire three months, and enabling the class to graduate from three to five months earlier than under the usual arrangements.

Owing to the fact that many of the men in the Class of 1918 had already accepted positions for the summer, the returns from which some had depended upon for assistance in their senior year, considerable opposition towards a long summer session was at first evidenced among the class.

With a view of effecting some sort of an arrangement that would prove satisfactory to both students and the Faculty, President Long called a meeting of the class on Friday afternoon, May 18th. Doctor White and Professor Peddle represented the Faculty, and each spoke at length upon the advisability of a long summer term. Doctor White expressed his belief that a second draft would be made about the first of January, 1918, and he stated that it was the intention of the Faculty that the 1918 Class graduate about that time, in order that its members might have their education completed before entering or being drafted into the service. To those needing financial aid in order to complete their course, reasonable assistance from the Alumni and Nippert funds was offered. When the matter in all its seriousness was considered, the class voted unanimously to support the Faculty in whatever action they took.

At a meeting of the Faculty shortly afterwards, it was decided to conduct a summer session of two terms, for the 1918 Class, which, with corresponding changes in the usual schedule for the school year, will enable the class to graduate in January. The first term of the summer session was scheduled to begin on Wednesday, June 13th, the second term beginning immediately after the close of the first term, and ending on Wednesday, September 19th. After a two weeks' vacation, the regular winter session is to be resumed on Wednesday, October 3rd. Following a plan similar to that of summer session, the second term of the winter session is to end Thursday, January 3rd, 1918. Each of the four terms is to be of seven weeks duration.

This arrangement provides only seven months to complete the entire work of the senior year, which regularly requires nine months. However, by doing away with the Thanksgiving and Christmas vacations, and by slightly increasing the daily assignments in all subjects, practically the same amount of work will be covered as under the usual schedule. Two vacations of approximately two weeks each were granted, one preceding and the other following the summer session, for the purpose of affording the students reasonable time to rest.

The first term of the summer session began
as scheduled on Wednesday, June 13th, every man in the Class of 1918 returning to graduate. The hour plan for this term is printed below.

By devoting the entire time of each term upon fewer subjects, it is planned to cover the work in them more rapidly than under the usual schedule, which provides a correspondingly smaller number of recitations per week in those subjects. Each subject is to be completed within the one term of seven weeks.

All other classes of the Institute will follow the usual schedule. Up to the present time, no arrangements have been made which will affect any excepting the 1918 Class, but in case the war continues for any length of time, it is quite probable that plans of a similar nature will be used in rushing the graduation of all the present lower classes.

**HOUR PLAN**

<table>
<thead>
<tr>
<th>SUMMER SESSION-FIRST TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MON.</strong></td>
</tr>
<tr>
<td>8-9</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td><strong>A.</strong></td>
</tr>
</tbody>
</table>

**THE SENIOR RECEPTION.**

The annual Senior Reception was held on the afternoon of Wednesday, June 6th, from four to seven o'clock. More than three hundred students and their friends attended the function, which was held on the campus. A large tent was placed between the main building and the gymnasium, and refreshments were served throughout the evening. Many of the alumni were in attendance.

The main diversion of the evening was dancing in the gymnasium, which never before was more beautifully decorated. From a large hoop hung in the center of the gymnasium, radial streamers extended to the walls, which were decorated with pennants. In the center of a white background in front of the west bleachers was the Rose Battalion flag. Much credit is due to Mrs. John White for the beautiful decorations.

The George Kerner Orchestra furnished music for the dancing.

William G. Ranels, for the past four years superintendent of shops at Rose, has been granted an indefinite leave of absence from the Institute, in order that he may accept an appointment to take charge of a party of mechanical experts who will go to Europe in the near future to make a three or four months' intensive study of aeroplane manufacture in France and, possibly, in England. Following this study, Mr. Ranels and his party will return to America, where they will supervise the manufacture in some of the country's largest automobile plants, of battle planes for the American army.

Mr. Ranel's appointment comes through Howard Marmon, the Indianapolis automobile manufacturer, who is serving in an advisory capacity to the Aircraft Production Board. The party of which the Rose instructor will have charge includes representatives of the leading automobile factories of Indianapolis, Cleveland, Buffalo and Detroit.
THE PRIZE DRILL.

On Saturday, May 26th, a prize drill for the two companies at Rose was held on the campus. The event proved to be very interesting, as the outcome was in doubt throughout the entire drill. Company B, under Captain Heedwohl, won by a margin of only three points.

The general plan of the drill was as follows: companies fell in, marched in squad formation to the reviewing ground, and, executing the left oblique, came up in two lines for the manual of arms, which was then given. After inspection of arms, each company marched by the reviewing officers in two lines, then in platoon formation. The companies marched off the field in squad formation.

Both companies were well represented in the individual drill. The first prize of five dollars awarded by Mr. W. C. Ball, was won by Corporal Engelhard, of Company B. The second prize of three dollars, awarded by Major Coles, was won by R. E. Weidemann, Second Sergeant of Company A. The reviewing judges were Major Wimer, Captain Monninger, Captain Thomas of Uniform Rank, K. of P., Captain Duddleston, of Company H, and First Lieutenant Talbott, of Company B.

ROSE MEMORIAL DAY.

Tribute was paid to the memory of Chauncey Rose on the annual Rose Memorial Day, which this year fell on May 16th. The usual services were held at three o'clock at the grave of Mr. Rose, at Highland Lawn Cemetery. Representatives of the Rose Ladies' Aid Society, the Rose Dispensary, the children of the Rose Orphan Home, and the students and faculty of Rose Polytechnic were in attendance.

Mr. William C. Ball presided at the services. An invocation was delivered by Rabbi I. E. Marcuson of Temple Israel, following which a sketch of the life of Chauncey Rose was read by George M. Davis, '88. At the conclusion of the sketch, a wreath of red roses was placed on the monument by two children of the Rose Orphan Home.

Sketches of the lives of Mrs. Sarah K. Heminway and Susan K. Francis were read by Mrs. Mary Sidney Miller, at the conclusion of which flowers were placed on the graves by Goldsborough Robinson, '18, and Simon Werbner, '19, winners of the Heminway bronze medal in the last two years. Previews to the exercises, flowers had been placed on the graves by the members of the Ladies' Aid Society.

The Rose students fell into regular company formations and, with the faculty and board of managers, marched to the graves of Josephus Collett and James McGregor, where wreaths of white roses were placed. Flowers were also placed on the graves of Thomas Grey, Richard Thompson, Charles Peddle, Preston Hussey, William Mack, and Robert S. Cox, who served on boards of the Rose organizations.

THE INTER-FRATERNITY DANCE.

The first Inter-fraternity Dance of Rose was held on Tuesday evening, June 5th, at the Elks Club. Over a hundred attended, including many alumni who had returned for commencement week.

The grand march was started at nine o'clock, led by Doctor White and Mrs. White, and Professor and Mrs. Stock, who acted as chaperons. The hall was beautifully decorated in rose and white, and large palms hid the Clifford Lowe Orchestra, composed of four pieces. An American flag waving in a spot light added to the beauty of the decorations. Rose and white colored roses were given as favors. Frozen punch was served throughout the evening.

All had a most enjoyable time, and it is to be hoped that the Inter-fraternity Dance will become an annual affair at Rose.

MILITARY APPOINTMENTS FOR 1917-1918.

Major H. L. Coles of the Rose Battalion has announced the following appointments for the year 1917-1918:

Major, L. J. Heedwohl, '18.
Captain Adjutant (no appointment).
Sergeant Major, R. F. E. Wiedemann, '19.
Battalion Quartermaster (no appointment).

Company A—
Captain, J. C. Zimmerman, '19.

Company B—
Captain, A. W. Norton, '20.
First Lieutenant, D. P. Cromwell, '19.
First Sergeant, R. E. Woodruff, '19.

Company C—
(Signal and Engineering)
Captain, C. K. Failing, '18.
Second Lieutenant, P. M. Stone, '20.
First Sergeant, D. M. Howard, '18.
“Well, fellows, what are we gonna do—live up to these rules or not? I’m tellin’ you we gotta get our copy in on time! And if you can’t—well, I’ll have to find some that can, that’s all.”

Technic Staffers have heard this before, but to those who have never suffered in this respect, we use it as a means of introducing our former boss, the biggest Howitzer in school, Mr. “Fritz” Hild. If deservedness alone had anything to do with it, no doubt he would have been featured in this column long ago, but since he didn’t care to write his autobiography so early in life, we are now afforded the opportunity of using him as “this month’s victim”—of giving him a taste of his own medicine, as it were.

Now for a bit of history. Fritz started in here three years ago last September with quite a “rep” attained while in high school. According to the grand old dope, high school stars should fade in college, but Freddy overturned the well-known bucket right off the reel when he pulled down the Freshman Class Presidency without any trouble whatever. But no sooner had he assumed the captaincy of “the goode ship” ’17, than an epidemic broke out on board that cost him over half his crew.

In this respect his men set a record that looks good for all time to come, as no less than seventy percent of them were “but a memory” long before they were scheduled to graduate. We’ve heard a lot of bad things about ’17 since we’ve been here, but we can’t attribute any of them to a bad example set by Fritz as Prexy. Evidently his class felt that way about it too, for they elected him for the job again in his sophomore year, and in his junior year they made it three straight. This would satisfy most of us, but it was only a beginning for Fritz.

At the end of his sophomore year, he was honored with a job that has usually been considered too much for anyone but a senior—that of editing this magazine. And here may we state that “editing” in this case usually means two or three all-night sessions in front of THE TECHNIC’s L. C. Smith & Bros., in which Ye Ed. shows his versatility as a sport writer, society editor, humorist, reporter and proof-reader until at last he can close the hatches on his battered roll top desk and congratulate himself over the fact that his book isn’t published every week. So for two years “he put out this book on the twentieth (??!) of each month, in spite of the fact that he had to deal with the vagaries of Don M. Nixon and Don’s linotype machine.” He unloaded several headfulls of ideas on his staffs during those two years—some of them far from tame, we thought,—but the astonishing part of it is that he saw most of them through; and this, the wise men have told us, more than anything else, is the test of genuine executive ability.

Fritz served his fourth year on the Student Council as President of that body. And as Editor of THE TECHNIC and Captain of Company A of the Rose Battalion, he left the rest of us but little to fight over. How he could hold down all his jobs and still get an education was a wonder to us, but when he capped
the Heminway Gold Medal with a whirlwind finish he proved quite conclusively that he had been getting his thirty cents' worth of education from every recitation.

Now that we've told you what he has accomplished, there really is no necessity for filling our conclusion full of compliments. Of course we're convinced that it won't be long until we can read how Fritz "graduated with honors from the Rose Polytechnic Institute, Terre Haute, Indiana, in 1917," and so on. He has the ambition, the knack of starting things, and the ability to finish them. What more need be said?

"So long, boys!"

Where '17 is Bound

Austermiller, Elmer, undecided.
Brodsky, Benjamin, undecided.
Carpenter, Floyd S., L. & N. R. R., Louisville, Ky.
Davis, Raymond S., National Malleable Castings Co., Indianapolis.
Evans, Thomas M., undecided.
Hild, Frederick W., Nela Lamp Works, Cleveland, Ohio.
Holding, George W., Diamond Chain Co., Indianapolis.
Knox, Harry W., Lincoln Electric Co., Cleveland, Ohio.
Rector, John C., Ohio Oil Co.
Self, Wayne K., General Electric Co., Schenectady, N. Y.
Smith, M. Harold, Bureau of Mines, Salt Lake City, Utah.
Tilley, Milton, National Malleable Castings Co., Indianapolis.
Weaver, Donald B., Dayton Engineering Laboratories Co., Dayton, Ohio.
Wente, W. C., National Malleable Castings Co., Indianapolis, Ind.

Whelan, Vern J., Insley Manufacturing Co., Indianapolis, Ind.
Williams, Chester A., Insley Manufacturing Co., Indianapolis, Ind.

THE PEP FEAST.

Thursday evening, May 24th, marked the first Pep Feast held by Tech, and a peppery feast it was! Two full interurbans left the traction station promptly at seven-thirty, and ere long "Rambling Wreck" filled the air. "Fessor" was there, too, with a big, broad smile and a fat cigar.

Shortly after the crowd reached the new site of the Institute they started a big log fire at the foot of the hill. Then there was music—but such music! However, later in the evening there was some real harmony—thanks to some of our minstrel stars. Marshmallows were roasted and dumped on the ground (about fifty-fifty) until the supply gave out, whereupon the starving mob ascended the hill to the summer house, where "Lefty" with his band of workers had prepared a feed for them. But all too soon the cries of hunger pierced the noisy atmosphere, for Rufus met them with two pairs of boxing gloves held high in the air. In the whirlwind exhibitions that followed, Kremer and Norton knocked each other seasick, while "Butch" Barnes and "Head" Gray staged a miniature bull fight, which came to a sudden conclusion when "Head" bounced a near-haymaker off Barnes' 42-centimeter chest. Stockmaster then gamely took on "Rosey" in the burlesque bout of the evening.

Following the presentation of the letters, "Lefty" read two stirring telegrams from "Dutch" Wente, announcing that he had drawn and defeated Chicago's representative in the Western Conference Tournament, "in three straight sets." Fakes that they were, they gave the bunch appetites that made them dangerous, so "Gillie" set them loose on the eats and drinks (Bevo, etc.) Time to leave rolled around all too soon, but after all, that's the secret of every successful party, isn't it?

1918 CLASS MEETING.

At a meeting of the 1918 Class, Saturday, May 26th, the following officers were elected for the coming year:

President ...........Goldsborough Robinson
Vice-President ..........Chester W. Falls
Secretary-Treasurer ........Andrew Yatsko
In spite of the condition of college athletics in Indiana and Illinois since the outbreak of the war, Rose succeeded in completing at least a fairly successful baseball season. Although practically all games scheduled with I. C. A. L. teams were cancelled, through the efforts of Coach Gilbert and Manager Whelan, enough contests with non-conference schools were landed to make the season at least worth while.

Of the nine intercollegiate games played, five resulted in victories for Rose. Two contests were dropped to teams of the Western Conference, making only two defeats at the hands of teams considered in our own class. All but two games were played on foreign diamonds.

With only two veterans on the team, Tech made a much better showing than was expected. With seven men to develop, Gilbert was forced to spend the earlier part of the season in experimenting with material of unknown ability. This experimenting caused an abnormal swelling in the error column for some time, but "Gil" finally fixed up a line-up and batting order that proved to be a winning combination.

The season's averages, exclusive of the Illinois slaughter and the first game with Millikin University, are printed below. No box scores of these two games could be obtained. Though incomplete, the figures may be of some interest as an approximate record:

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Meadows, ss-3b</td>
<td>29</td>
<td>8</td>
<td>5</td>
<td>20</td>
<td>20</td>
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<tr>
<td>Bake, c</td>
<td>25</td>
<td>7</td>
<td>4</td>
<td>32</td>
<td>7</td>
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<td>Pence, 1b</td>
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<td>7</td>
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<td>Howard, 1b-cf</td>
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<td>0</td>
<td>13</td>
<td>0</td>
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<tr>
<td>Yatsko, rf-cf</td>
<td>29</td>
<td>4</td>
<td>8</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Thiry, cf-p</td>
<td>24</td>
<td>1</td>
<td>6</td>
<td>10</td>
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<tr>
<td>Rolshausen, p</td>
<td>23</td>
<td>1</td>
<td>4</td>
<td>11</td>
<td>24</td>
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<tr>
<td>Reinhard, ss</td>
<td>26</td>
<td>2</td>
<td>6</td>
<td>17</td>
<td>19</td>
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<tr>
<td>Brophy, 2b</td>
<td>15</td>
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<td>3</td>
<td>8</td>
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<td>Stock, rf-3b</td>
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<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Mikels, lf</td>
<td>27</td>
<td>5</td>
<td>7</td>
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<tr>
<td>Hauck, 2b</td>
<td>10</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Holding, p</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>1</td>
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</tr>
</tbody>
</table>

Team Averages .224 33 51 187 97 32 .193 .898

The Normal Series

ROSE 13, I. S. N. 9.

The first game of the series with the Teachers teaches us a moral that should be invaluable to Rose in years to come. If we only had some literary genius who would volunteer to write a sketch based on said moral, it would furnish ammunition for our future yell-leaders that ought to make every man in school a raving rooter. That moral is this: "Yell, Holler, Root, Scream, Whistle, Sing, Anything—but make a noise, and may that noise be inversely proportional to the score." We must admit the truth in ye olden proverb, "You don't know how it helps the team," when we remember that Tech overcame a six run lead in one inning and thus inspired, were never again in danger. From the baseball viewpoint the game was featureless. Score:

INDIANA STATE NORMAL

<table>
<thead>
<tr>
<th>A. B.</th>
<th>R.</th>
<th>H.</th>
<th>P. O.</th>
<th>A. E.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lostutter, cf</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Wilson, 2b</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Donovan, ss</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Winters, 3b</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Lowe, 1b</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Clark, c</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Boston, lf</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Moran, rf</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Olinger, p</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Kerr, p</td>
<td>3</td>
<td>0</td>
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<td>0</td>
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</table>

Total .40 9 8 28 9 3
THE ROSE TECHNIC.

ROSE POLY.

A.B. R. H. P.O. A. E.
Mikels, lf. .......... 4 2 2 1 0 0
Meadows, 2b. ...... 4 0 4 4 0 0
Reinhard, ss. ....... 3 1 2 0 2 1
Bake, c. .......... 4 1 1 2 0 1
Thiry, cf. ......... 4 1 1 2 0 1
Rolshausen, p. ..... 5 1 2 0 7 1
Yatsko, rf. ...... 5 1 2 1 0 0
Pence, 1b. ....... 5 1 2 14 0 0
Hauck, 3b. ....... 3 1 0 1 0 3

Totals 37 13 13 27 14 6

Normal 5 1 0 1 0 0 2 0 0— 9
Rose 0 0 7 1 4 0 1 0 *-13


I. S. N. 6, ROSE 2.

Tech met defeat in the second game of the series. Failure to connect when hits meant runs cost the verdict. Normal put the setto on ice in the fourth when two hits, two errors and a walk netted four runs. In the third, four singles and an infield out netted but one run for Rose. As in the first game, Rose held the hitting honors. Score:

STATE NORMAL.

A.B. R. H. P.O. A. E.
Donovan, ss. ....... 3 1 1 1 1 2
Wilson, 2b. ....... 3 1 0 3 3 0
Lostutter, If. .... 4 1 1 3 0 0
Winters, 3b. ....... 3 0 0 3 0 0
Lowe, 1b. .......... 4 0 1 6 0 1
Clark, c. .......... 4 0 1 9 1 0
Boston, cf. ....... 4 0 1 1 1 0
Moran, rf. ....... 4 1 1 1 1 0
Asbury, p. ....... 4 1 2 0 2 0

Totals 33 6 7 27 9 3

ROSE POLY.

A.B. R. H. P.O. A. E.
Mikels, lf. .......... 4 0 0 1 0 1
Meadows, 3b. ...... 3 1 1 4 3 0
Reinhard, ss. ...... 3 1 1 4 3 0
Bake, c. .......... 4 0 0 2 1 0
Meadows, 2b. ...... 3 0 1 0 6 0
Thiry, p. .......... 1 0 0 1 2 0
Yatsko, cf. ....... 4 0 1 1 0 0
Pence, 1b. ....... 3 0 1 13 2 2
Stock, rf. ....... 4 1 1 1 0 0
Rolshausen, p. ..... 3 0 1 0 3 1
*Hauck ....... 1 0 0 0 0 0

Totals 34 2 8 24 18 7

State Normal 2 0 0 4 0 0 0 *-6
Rose Poly 0 1 0 0 1 0 0 *-2

*Batted for Mikels in ninth.


ROSE 4, I. S. N. 3.

The third game was a ten inning affair which was finally won by Rose, 4 to 3. The contest was close and exciting. At no time did more than one run separate the two teams. The Engineers came to bat in the ninth one run to the bad. But at that stage a sudden spell of generosity came over the teachers. Bake, first up, was walked. Thiry hit to Olinger who threw the ball to center field in attempting to force Bake at second. Bake started for third and Boston threw to the third sacker, who cuff the ball around while "Sissy" marched home with the tying tally. In the tenth, Pence doubled and Brophy singled. Two free tickets followed which forced in the winning run. Score:

ROSE POLY.

A.B. R. H. P.O. A. E.
Mikels, lf. .......... 4 0 0 1 0 1
Meadows, 2b. ...... 5 1 1 0 3 0
Reinhard, ss. ...... 4 0 0 1 4 1
Bake, c. .......... 4 2 1 11 1 0
Thiry, cf. ....... 4 0 0 0 0 0
Rolshausen, p. ..... 4 0 0 0 0 0
Yatsko, rf. ...... 4 0 1 14 0 1
Pence, 1b. ....... 5 1 1 1 2 0
Brophy, 2b. ....... 5 1 1 1 2 0

Totals 38 4 5 30 14 5

NORMAL.

A.B. R. H. P.O. A. E.
Donovan, ss. ...... 4 0 0 1 2 1
Wilson, ab. ...... 5 0 1 3 3 0
Lostutter, If. .... 3 2 1 4 3 0
Winters, 3b. ....... 4 0 0 3 1 0
Lowe, 1b. .......... 2 0 0 2 1 0
Clark, c. .......... 3 0 0 8 1 0
Boston, cf. ....... 4 0 1 1 0 0
Moran, rf. ....... 4 0 0 2 1 0
Olinger, p. ....... 4 1 0 0 3 2
Asbury, p. ....... 0 0 0 0 0 0

Totals 31 3 3 30 11 3

Rose Poly 2 0 0 0 0 0 1 1 0 1-4
Normal 0 1 0 0 0 0 0 0 0-3

The fourth and last game of the series, at Rose Campus, May 26th, was called on account of rain in the fourth inning. Rose was seven runs to the bad at the time, the rain thus proving to be quite a blessing to the general community. Final exams prevented playing the game during the following week, the series ending two to one in favor of Rose. In case this excuse is not to be accepted by I. S. N., we have only to ask them their reasons for refusing to schedule our basketball team during the season of 1915-1916—an old question, to be sure, but one that has never been answered.

ROSE 3, CENTRAL NORMAL 1.

Poly had little trouble in defeating Central Normal College at Danville, on May 25th. For the first and only time this season, the team played errorless ball. Thiry pitched the entire game, holding the Normalites to three hits. In addition, he polled out a three base hit in the second inning.

As usual, Rose trailed until the seventh, when a combination of hits, a sacrifice and an error produced three runs. Score:

**CENTRAL NORMAL COLLEGE.**

<table>
<thead>
<tr>
<th>A.B.</th>
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<tr>
<td>Fogarty, 2b.</td>
<td>3</td>
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<td>0</td>
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<td>Robinson, ss.</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Allen, rf.</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Hale, 3b.</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Rust, p.</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Sheaffer, c.</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>11</td>
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<tr>
<td>McCullough, lf.</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Baldwin, 1b.</td>
<td>3</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Green, cf.</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Hammond, rf.</td>
<td>2</td>
<td>0</td>
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<td>0</td>
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<tr>
<td><strong>Totals</strong></td>
<td><strong>29</strong></td>
<td><strong>1</strong></td>
<td><strong>3</strong></td>
<td><strong>27</strong></td>
</tr>
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</table>

**ROSE POLY.**

<table>
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<tr>
<th>A.B.</th>
<th>R.</th>
<th>H.</th>
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<th>A. E.</th>
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</thead>
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<td>Mikels, lf.</td>
<td>4</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Meadows, 3b.</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Reinhard, ss.</td>
<td>4</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Bake, c.</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Thiry, p.</td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Rolshausen, rf-1b.</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>Yatsko, cf.</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Pence, 1b.</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>Brophy, 2b.</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Hauck, rf.</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>33</strong></td>
<td><strong>3</strong></td>
<td><strong>7</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

**R. H. E.**

| C. N. C. | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 |
| Rose Poly | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 7 | 0 |


The annual setto between the "prof's" and "grads" usually results in a score something like those they have in cricket, but this year we saw some real baseball—for two and a half innings. With Lefty Gilbert pitching and umpiring for the teachers (not I. S. M.) and Backman, for three years with the St. Louis Cardinals, on the mound for the Seniors, the fielders were afforded few chances to make errors. Backman, who used to pitch for Tech back in the "good old days" of '08, returned to graduate with the '17 Class, thereby acting the life-saver for the seniors, who were expecting rough treatment at the hands of Gillie and his bunch. They got it, though, at that.

Each team shoved over a run in the first inning, Wente scoring for the Seniors, and Gilbert for the Faculty. In the second inning, Backman straightened one of Lefty's railroad curves into a beautiful line drive over third base. The ball hit the netting back of the tennis courts, and bounced into foul territory. The hit was a masterpiece, and according to Gillie's own ground rules, was good for two bases, at least. But, ground rules or no ground rules, Umps Faurot, upon the suggestion of J. Rufus, called it a foul. Unable to recover his senses, Backman struck out, and no scoring occurred. In the third inning, the Seniors worked Tilley around to third base. Gil continued to assume the duties of pitching and the responsibilities of umpiring, while the Seniors enacted mob scenes along the third base coaching line. At the appointed moment—when Gil called the third strike on one of his victims—they went after him in a body. Carrying him over to the shadow of Meff's historic press stand, they rolled him through a few radians on the "well-graded and sodded campus." Refreshments, in the way of sod and sand, were also served. Finally, upon returning to the pitcher's box, Lefty succeeded in obtaining the sympathy for former Umpire...
Faurot to the extent that the latter forfeited the game to the Faculty, 9 to 0. Thus ended the conflict, with the Faculty "winning on a technicality," as Hath says. If Lefty can put over this stuff with his ball team this summer, it's a safe bet that Richmond won't be knocking the floor boards out of the Central League much longer. The line-ups were as follows:

<table>
<thead>
<tr>
<th><strong>Seniors</strong></th>
<th><strong>Faculty</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Backman</td>
<td>Backman</td>
</tr>
<tr>
<td>Wente</td>
<td>Wente</td>
</tr>
<tr>
<td>Hild</td>
<td>Hild</td>
</tr>
<tr>
<td>Smith</td>
<td>Smith</td>
</tr>
<tr>
<td>Aitken</td>
<td>Aitken</td>
</tr>
<tr>
<td>Tilley</td>
<td>Tilley</td>
</tr>
<tr>
<td>Richard</td>
<td>Richard</td>
</tr>
<tr>
<td>Binhack</td>
<td>Binhack</td>
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<tr>
<td>Evans</td>
<td>Evans</td>
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</tbody>
</table>

SUMMER INTERCOURSE SERIES.

In the first game of the series between teams representing the different courses of the 1918 Class, the Civils and Architects had no trouble in disposing of the Electricals, 22 to 8, in seven innings. But for Louie Bake's brilliant decisions in favor of the Electricals, and Failing's spectacular work at second base, the game would have been devoid of interest. The line-ups were as follows:

**Civils and Architects**: Springer, 2b-p-ss; Grafe, c; Vrydagh, ss-p; Howard, p-2b; Bergmann, 1b; Stoner, 3b; Price, cf; Long, rf; McKee, lf.

**Electricals**: Falls, if-2b; Failing, 2b-cf; Decker, c; Yatsko, p; Hutchinson, 2b; Shorten, 1b; Cortelyou, 3b; Minnick, cf; Wildermuth, rf.

In spite of the fact that they played against a picked nine from the Chemical and Mechanical sections, two umpires and a crooked scorekeeper, the Civils and Architects came through with another victory, this time 13 to 8, in nine innings. For the losers, Geiger made the only put-out in the outfield of the entire game; in addition he tore off a three-bagger with two on. Louie pitched well excepting in the pinches. The line-ups were as follows:

**Civils and Architects**: Springer, 2b; Grafe, c; Vrydagh, ss; Howard, p; Bergmann, 1b; Stoner, 3b; Price, cf; Long, rf; McKee, lf.

**Chemists and Mechanics**: Furry, c; Mikels, ss; Bake, p; Woodling, 1b; Curtis, 2b; Geiger, lf; Bolton, cf; Williams, lf-3b; Van Buren, 3b-lf.
On Friday, May 19th, the Tech tennis team played its first match of the year against the representatives of Millikin University, secondary champions of Illinois. By winning both events in the singles, Millikin captured the match. Failure to get in shape for the meet cost "Dutch" his first and only defeat on a Terre Haute court during his entire four years in Rose, while Owen was unable to down his opponent, McDonald, in more than one set. In the doubles, however, Wente and Owen outclassed McDonald and West after the first set.

Following is a summary of the match:

**Singles.**
West, Millikin, defeated Wente, Rose, 7-5, 8-6.
McDonald, Millikin, defeated Owen, Rose, 6-0, 5-7, 7-5.

**Doubles.**
Wente and Owen, Rose, defeated McDonald and West, Millikin, 2-6, 6-3, 6-3.

**WESTERN CONFERENCE OPEN TOURNAMENT.**

"Dutch" Wente and "Bob" Owen represented Rose at the Western Intercollegiate Lawn Tennis matches held at Chicago University on May 26 last. There is nothing we can say here that will do justice to these two men. According to the Christian Science Monitor, published at Boston, Mass.:

"Wente, the unheralded player from Rose Poly, turns out to be a product of the courts of another big city, Cincinnati. He suffered this spring from lack of competition. In Terre Haute, where Rose is located, he was the best man in the city. So these intercollegiate matches gave him his first stiff work of the spring. It was also his first experience in this tourney, as noted. Altogether it must be said for him that in beating a prime favorite, McKay, and coming through to the finals, to lose after taking the lead, he made a highly creditable showing. The consistency of his game indicated that his progress was well deserved."

Following is a complete summary of the matches, which is pleasant to look upon:

**Singles.**
First Round:
- W. C. Wente, Rose Polytechnic Institute, defeated E. G. McKay, Illinois, 6-3, 2-6, 9-7.
- C. G. Clark, Chicago, defeated W. H. Mayer, Purdue, 6-1, 6-1.
- Bernard Nath, Chicago, defeated P. L. Fatout, Purdue, 6-2, 6-3.

Second Round:
- C. G. Clark, Chicago, defeated D. W. Maxon, Ohio State, 6-4, 6-3.
- A. T. Zuck, Ohio State, defeated Bernard Nath, Chicago, 6-3, 6-2.

Semifinal Round:
- W. H. Becker, Illinois, defeated C. G. Clark, Chicago, 6-3, 6-3.
- W. C. Wente, Rose, defeated A. T. Zuck, Ohio State, 6-3, 2-6, 7-5.

**Doubles.**

**Singles.**
Second Round:
- C. G. Clark, Chicago, defeated D. W. Maxon, Ohio State, 6-4, 6-3.
- A. T. Zuck, Ohio State, defeated Bernard Nath, Chicago, 6-3, 6-2.

Semifinal Round:
- C. G. Clark and Benson Littman, Chicago, defeated D. W. Maxon and A. T. Zuck, Ohio State, 7-5, 4-6, 6-2, 6-4.

**Doubles.**
Final Round:
- W. H. Becker, Illinois, defeated W. C. Wente, Rose, 4-6, 8-6, 6-3, 6-1.

**Singles.**
Final Round:
- W. H. Becker and E. G. McKay, Illinois, defeated Littman and Clark, Chicago, 6-1, 6-2, 6-3.

**PROSPECTS.**

With the passing of "Dutch" Wente, Antonio Gouvea, '18, is now looked upon by ardent followers of the racquet sport as the most probable successor to the Cincinnati star. Tony, or "Comet," as he is known in tennis circles, has a whirlwind, smashing style greatly resembling that of the great McLoughlin several years ago. Although comparatively a novice at the game, young Gouvea proved himself the "find" of the season by winning undisputed claim to the women's championship of the city.—News Item.
THE "R" MEN

FOOTBALL, 1916.
L. B. Anderson, Ex-'20
L. S. Bake, '18
A. N. Barnes, '19
B. F. Boring, '20
R. P. Buck, Ex-'19
R. S. Davis, '17
O. G. Floyd, '19
L. E. Gale, Ex-'20
P. J. Grafe, '18.
C. M. Gray, '20
G. B. Henry, '18
W. Hoff, Ex-'20
J. S. King, '20
J. E. Orr, '18
J. A. Wagner, '18
R. A. Werneke, Ex-'20
A. Yatsko, '18

BASEBALL, 1916.
L. S. Bake, '18
J. P. Brown, '16
J. H. Carter, '16
F. G. Coates, '17
F. J. Kline, '16
R. B. Larr, '16
M. J. McKeever, '16
A. E. Reinhard, '19
R. R. Stoltz, '16
R. Trimble, '16

BASEBALL, 1917.
L. S. Bake, '18
W. H. Meadows, '20
J. W. Mikels, '18
F. M. Pence, '20
A. E. Reinhard, '19
F. W. Rolshausen, '20
K. P. Thiry, '19
A. Yatsko, '18

MILITARY SERVICE, 1917.
F. W. Hild, '17
L. J. Heedwohl, '18

BASKETBALL, 1916.

L. R. Allen, '18
R. S. Davis, '17
O. G. Floyd, '19
L. J. Heedwohl, '18
D. M. Howard, '18
J. E. Orr, '18
A. E. Reinhard, '19
J. F. Reinking, '20
H. W. Streeter, '19

TRAVEL, 1916.

A. M. Binclack, '17
J. H. Carter, '17
W. S. Risser, Ex-'17
O. G. Floyd, '19

BASEBALL, 1917.
L. S. Bake, '18
W. H. Meadows, '20
J. W. Mikels, '18
F. M. Pence, '20
A. E. Reinhard, '19
F. W. Rolshausen, '20
K. P. Thiry, '19
A. Yatsko, '18

TRACK, 1916.

A. M. Binhack, '17
J. H. Carter, '17
W. S. Risser, Ex-'17
O. G. Floyd, '19

TENNIS.

1916.
W. C. Wente, '17

1917.
W. C. Wente, '17
R. J. Owen, '19

RESERVE.

Football, 1916.
J. A. Engelhard, '20
H. P. Kremer, '20
W. C. Woodling, '18

Baseball 1916.
A. N. Barnes, '19
K. P. Thiry, '19
A. Yatsko, '18

1917.
T. A. Brophy, '20
J. W. Hauck, '19
D. M. Howard, '18
G. W. Holding, '17
H. E. Stock, '20
The Engineer.
(With Apologies to Kipling.)
By ROBERT T. GEBLER.
You can rave about yer bloomin' Tommy Atkins
on parade
And yer lady-like lieutenants on the Mall.
You can talk about your gunboats, yer rifles and
yer camps
And yer heroes in the rain of leaden ball.
But the bloke I doffs me hat to
Didn't fight the sly mulatto
But he was in the battle just the same.
He's the bloke that planned yer bridges,
Built yer roads across the ridges,
To let Tommy Atkins march into the game.

With 'is transit or 's level he would work to beat
the devil—
The devil of a Kaffir, sir, I mean—
But the blokes as write the stories never pass 'im
any glory
And they never throws 'im on the movie screen.
Out there 'e is a plannin'
And a river 'es a spannin'
As 'e gets the place in order fer the fair;
But the 'eathen start a shoutin';
They've forgotten all about 'im
And the history won't say that he was there!

Yer millionaires cut capers, get their pictures in
the papers
And the public then begins a bloomin' 'owl
'Bout the squeducks 'en highways, the railroads
and the byways
An' big jobs like the Panama Canal.
But as I've often read it—
The bloke who gets the credit
Is not the dusty khaki'd engineer;
But the guys wot Pave the shillins
Get in first on all the killins',
Of the lad who turned the trick we never 'ear.

So I think when I am ridin' down to Dover, or a
gliding
In a taxi 'cross the bridge in Lunnon town,
Of the lads who built the town, sir, and the sewers
under groun' sir.
The sea wall and Suez and did 'em brown.
But they never sings 'is praise, sir
In the papers nowadays, sir;
'Er never gets the credit that's 'is due.
But the fellers with the money
Wouldn't get the praise and honey
If the engineers wern't there to pull 'em through.

Midnight on the Normal Campus.
She—"I wonder how late it is?"
He—"Come over to the sun dial and I'll light a match."

R. P. I.

At the Inter-Frat.
Dave—"That punch has gone to my head."
She—"It probably likes to be alone."

R. P. I.

A Chemist's Point of View.
Furry—"Seems to be some tin about this Ford of mine."
Seed—"Yep, they analyzed one once and found slight traces of tin."

R. P. I.

"At last," breathed the scrub, fondly pressing his
second Reserve letter to his heart, "at last I'm a
Four-R man!"

R. P. I.

Why Company B Won.
Reviewing Officer, to Van Buren, file closer
—"What are your duties?"
Shorty—"W-e-l-l, I'm standin' here right now."

R. P. I.

Rastus—"You all agoin' to jwine de army?"
Sambo—"Sure, I'se gwine to jwine de mili-
tiey.
Rastus—"I likes to ride a hoss; I'se agoin'
to jwine de Calvary.
Sambo—"Bo, you don'tanta jwine de Cal-
vary. When you all's up deah in front an'
dey blow de retreat, dat hoss'l be in yo' way!"

R. P. I.

With the Mosquito Fleet.
First Seaman—"What's that wriggling ob-
ject off there near the horizon?"
Second Ditto—"Guess it must be a nervous
reck."—Widow.

R. P. I.

"Mornin', Rastus; yo' al coming to the paci-
Fist meeting tonight?"
"I doan think so. I done misplaced my
razor."—Tiger.
A Good Sign.

Sponge—"I think that a street car hash just passed."
Blotter—"How yuh Know?"
Sponge—"I can shee its tracks."—Chaparral.

"Did you see those autos skid?"
"Sir, how dare you call me that?"—Puppet.

"My bhoy is getting a degree at Cornell dis June."
"Izzy?"
"No, A.B."—Widow.

"This," said the goat, as he turned from the tomato can and began on the broken mirror with relish, "this is indeed food for reflection."—Lampoon.

Preacher—"How is it I haven’t seen you at church?"
College Lad—"I ain’t been."—Awgwan.

"What’re you playing?"
"Chopin’s ‘Funeral March’."
"In what key is it written?"
"Dunno, skeleton key, I suppose."—Lehigh Burr.

Jim—"May I join the Mosquito Fleet father?"
Father—"No. Anything but aviation, son."—Widow.

Stranger (running into Cohen’s clothing store)—"Mr. Cohen, Mr. Cohen, your son Ikey was just run over by a train and had both feet cut off."
Cohen (excitedly)—"Ikey? Mein Gott, he just bought a new pair of shoes."—Penn. Froth.

"Where are you going?"
"Callin’."
"Where’s the stiff collar?"
"I’m not going to marry the girl today."—Record.

"What is it, do you suppose, that keeps the moon from falling?” asked Georgine.
"I think it must be the beams,” replied George softly.—Burr.

"What time is it, Roomie? I’m invited to a swell party tonight and my watch isn’t going.”
"Wasn’t your watch invited?"
"Yeh, but it hasn’t the time."—Longhorn.

"Shay, boss, I got ’nawful bun on.”
"Thash nothing. I feel like a whole bakery.”—Pelican.

Visitor—Who designed this ventilating system?
Stude—Oh! I guess it was some draftsman.—Nebraska Blue Print.

"Why don’t you water your horse?"
"Don’t have to, he’s a bay.”—The Engineer.

Maud—Miss Oldum thinks that hotel clerk just lovely.
Ethel—Why so?
Maud—He wrote opposite her name on the hotel register: Suite 16.—Boston Transcript.

Student—"Can’t we have some more heat in here? The temperature will soon be down to zero."
Prof.—"That’s nothing.”—Widow.

Qualified.

An application paper recently handed in to a civil-service examiner had the following to one of the questions:
Ques.—"Have you had any experience speaking before public gatherings?"
Ans.—"Two months work addressing envelopes."—Panther.

Father—"My son, I trust your aim in life is high?"
Son—"I guess so Dad. I’m only hitting the high spots.”—Widow.

Carl—"I decided not to get an automobile, after all."
Catherine—"Oh, did you?"
Carl—"Yes, someone else held the lucky coupon.”—Chaparral.
## JUNE TECHNIC ADVERTISERS

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<td>T. H. Boiler Works.</td>
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<td>Hornung Shoe Shop.</td>
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Traveler—"How much is my bill?"
Clerk—"What room?"
T.—"I slept on the billiard table."
C.—"Fifty cents an hour."—Purple Cow.

"That fellow will never earn anything but pin money."
"How so?"
"He runs a bowling alley."—Widow.

R. P. I.

Mrs.—"Henry, come hook up my dress."
Henry—"I couldn’t dear. You know you made me promise never to do anything behind your back."—Punch Bowl.

"Wish I was in your shoes."
"Why so?"
"Mine leak."—Punch Bowl.

---

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LEST the "ROSE" of the ROSE TECHNIC WITHER

Don’t cross over to the Ditches without registering in the 27th Rose Technic Battalion.

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City

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Located at
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“Are you ill? Let me see your tongue.”
"‘S no use. No tongue can tell how bad I feel.”—Lamoon.
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“Sure. They’ve been friends for years.”
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“I haven’t done a day’s work in two years.”
“You ought to be ashamed of yourself.”
“Oh, no; I’m night watch in a bank.”
—Gargoyle.
R. P. I.

“Isn’t you afraid of the ocean wild?”
Asked the bather by her side,
“Oh, no,” she answered, “don’t you see,
I know the ocean’s tide.”
—Tiger.

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SIXTH AND MULBERRY STREETS

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Hart Schaffner and Marx Varsity Fifty-Five Model

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TEN PER CENT REDUCTION TO POLY STUDENTS

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Compliments of

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CUT YOUR LABOR COST

1. Labor is scarce and expensive.
2. Compared with a year ago, a report in a large typical manufacturing district, showed that 26% more men were employed and 38% more wages paid.
3. It is hard to get enough labor; it is hard to get labor good enough; and the high price of labor threatens profits.
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It is more convenient and rapid than the precision potentiometer and more accurate than the laboratory standard ammeter and voltmeter. All measurements are referred to a standard cell and the potentiometer can be used successfully for commercial, standardizing and general laboratory work.

For rapid and accurate measurements the Central Station will find it indispensable.

*A bulletin descriptive of this potentiometer will be gladly sent on your request. Write for it now*

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Dallas, Tex. (So. West G. E. Co.)

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