Steinmetz

The spirit of Dr. Steinmetz kept his frail body alive. It clothed him with surpassing power; he tamed the lightning and discharged the first artificial thunderbolt.

Great honors came to him, yet he will be remembered not for what he received, but for what he gave. Humanity will share forever in the profit of his research. This is the reward of the scientist, this is enduring glory.

Emerson tells how the mass of men worry themselves into nameless graves, while now and then a great, unselfish soul forgets himself into immortality. One of the most inspiring influences in the life of a modern corporation is the selfless work of the scientists in the laboratories, which it provides for their research.

If you are interested to learn more about what electricity is doing, write for Reprint No. AR391 containing a complete set of these advertisements.
Your Spirit for 1925

What about your spirit for 1925, Alumni? Is it going to be of the cooperative kind, that which brings out the best in all of us, or is it going to lapse into the rut of disinterest for the coming year, one which gives promise of being the most prosperous of any we have welcomed in now since the close of the war. We sincerely believe that all of you are of "the stuff that men are made of," and though the old belt may slip occasionally, 1925 will see the pulleys adjusted and the gears meshing properly; this, with the application of the power of willingness to work and to serve will bring you every success we know, though you may enjoy it quite often without the flare of trumpets, in the quiet of your heart and home.

We ask no credit for trying to serve you, it is a pleasure, an honor, and the duty of one alumni to another, in fact, if we have done even the least of good our reward is truly great.

With these thoughts in mind, may we not ask just a little more co-operation from ever so many of you who are with us always, in spirit, we know, but from whom we seek action and plenty of it with the advent of good times and a big year.

Toward the close of the month and extending into February, perhaps, we shall send out letters to many of you from whom we have not heard for some years; at least, not in the past one. These letters will have our return address plainly marked upon them and if they are not returned to us within a reasonable length of time, we shall confidently assume that they have reached their destination.

The letters will ask you principally for a record of yourself and others whom you know and on whom we have no information. Every former student of Georgia Tech should be receiving the Alumnus; if he isn't and if you know of him, that's the other man we want.

Of course, the National Alumni Association is not an eleemosynary institution—whatever that is—and cannot progress very far without your active cooperation in a number of ways; so "put out" a little with us this year, men, take a little of your time and a two-cent stamp and let us hear from you immediately upon the receipt of our letter; then you will have co-operated with your association and your Alma Mater and you will feel ever so much better for having done so—try it.
"Dr. Herman Schneider of the University of Cincinnati, Ohio, many years ago inaugurated what is known as co-operative engineering education. Conditions were favorable for such courses at Cincinnati and after a long and thorough trial the scheme was found to be a big success. The idea was gradually taken up at other places, varying the application of the plan to suit the local or special conditions. Some attempts were made on a small scale to apply it to different branches of railway engineering, but not with any great degree of success. The Georgia School of Technology offered courses in co-operative engineering as early as 1912, but it was not until a year or two ago that it enlisted the interest of the Central of Georgia. Today that railway has 74 co-operative students in the mechanical, electrical and signal departments.

The standard engineering courses of the Georgia School of Technology, as at most other engineering colleges, cover four years. The students in these courses have a certain amount of shop or field work in the college and have the usual long summer vacations. When graduated they find it necessary to begin at the very bottom of the ladder in the industries—in other words they are long on theory and short on practice. It is rather discouraging to many of these young men to have to start in at the same place as the regular apprentices who are four or five years younger.

The co-operative engineering courses, on the other hand, are planned to allow the students to alternate at short intervals between the college and the shop; they require five years, or a year longer than the standard engineering courses. The co-operative engineering students also work 11 months a year, instead of nine, shortening the summer vacation from three months to two weeks.

What does this accomplish? Several things. The student gets the practical work along with the theory and mental training and is better able to understand and appreciate both. It tests the boys out early; they soon find whether or not they are fitted for engineering work. If not, they can transfer to some other course for which they are better suited, thus saving time and unnecessary expense for both the student and the institution. The co-operative student or "Co-op," as he is called, earns money one-half the time, thus making it possible for many young men to go to college who would otherwise not be able to finance their courses. They are paid 32 cents an hour for the first six months; this is increased two and a half cents an hour at intervals of six months. The co-operative courses practically double the capacity of the college, since twice as many boys can be accommodated with the same equipment in any one college year, one-half being in the college, while the other half is in the shop. This statement must, of course, be modified somewhat since the co-operative course is five years long instead of four. When the co-operative student is graduated he has a splendid practical and theoretical training and can hold down a responsible position, rather than have to start at the bottom of the ladder.

It is necessary for the college to remain open for the greater part of the summer, thus necessitating special arrangements with those faculty members who have the co-operative students in charge. Our colleges and universities represent vast investments and from the economic point of view it is advisable to have them function throughout the entire year, thus keeping the investment working continuously. The continuity of shop operation is not affected, since each student has an alternate who replaces him in the shop when his partner returns to
ON THE JOB

Co-operative Students at the Savannah, Ga., Shops
the college, or when he takes his vacation.

To become a co-operative student on the Central of Georgia it is first necessary to meet the entrance requirements of the Georgia School of Technology. These are rather severe and up to the standards of the best engineering schools. They may well be so, for while the college has 90 co-operative sophomore students out of a total of 450 in that class, and 120 co-operative students in the freshman class out of a total of 650, it has been forced to turn away several hundred applicants for entrance in the co-operative engineering courses. If, after a student has been accepted by the Georgia School of Technology, he wishes to enter the service of the Central of Georgia as a co-operative student, he must pass a physical examination and meet the other requirements of the railroad.

In general, the young men alternate between the college and the shop at intervals of four weeks. It is necessary to modify this arrangement somewhat at certain times of the year to provide for the college examinations and allow each student to have one week of vacation at Christmas or New Year, and two weeks' vacation during the summer months. This is so arranged, however, that there is a normal force in the shops at all times. Experience of the Georgia School of Technology and other places where co-operative engineering courses have been tried, indicates that although the co-operative engineering students have about two and a half years of shop experience in their five-year course, they cover practically as much theory, and far more intelligent-ly, than do those in the four-year standard engineering courses. The work in the shop gives them the much needed practical experience and develops their physique; their contact with the work shop and industry gives them a better poise and more ease and assurance than is true of the average college student. The courses in the practical work on the railroad are designed to familiarize the boy with the work of the department in which he is enrolled and to give him a good all-around training in its methods and practices. Incidentally, also, the co-operative students at Georgia Tech are giving a good account of themselves in the college activities and athletics, in spite of their absence from the college one-half the time, and the fact that their shop work is often far removed from the college, or even Atlanta.

Although the Central of Georgia has only entered the second year of its experiment with the co-operative plan, it has co-operative engineering students covering four college years. This is because several students who started their co-operative work in other industries three or four years ago, have been transferred to the Central of Georgia. There are now four boys in the fourth or junior year, eight in the third or pre-junior year, 34 in the second or sophomore year, and 28 in the first or freshman year. Of these 74 students two are employed in the signal department, 16 in the electrical department and 56 in the mechanical department. The principal shop facilities of the Central of Georgia are at Macon, Savannah and Columbus. Of the 74 students 44 are assigned to Macon, 20 to Savannah, 8 to Columbus and 2 to Cedartown. A boy from Macon, or living near that place, will of course be assigned to Macon for his shop work, thus allowing him to live at home or reasonably near it for approximately one-half of the time. The co-operative students, as employees of the railroad, are entitled to free transportation, thus making it inexpensive to go between the college, the shop and their homes. They are classed as regular railroad employees and therefore have all of the benefits of such employees, including group insurance and pension rights.

Three or four of the regular apprentices who showed promise and could meet the college entrance requirements have been transferred to the co-operative engineering course with credit for the practical experience which they previously had in the shop.
A Group of the Central of Georgia Co-operative Students on the Campus of the Georgia School of Technology.
The college maintains the usual records for the co-operative students and sends copies of these reports to the railroad officers at intervals of six months. The railroad maintains an unusual form of record, which is reproduced in the illustration. It gages or checks the boy's character and ability by comparing reports from several foremen in different departments over a five-year period, the young man's ability and his capability of holding a responsible position should be clearly evident.

To stimulate greater interest in the railroad work and also the school life, the Central of Georgia co-operative students have formed a club known as the Tech Right Way Club, named jointly for the College and the Central of Georgia employees' magazine. It holds semi-monthly meetings at the college and monthly meetings while the boys are at work, either at Macon, Savannah or Columbus. The first part of the day of these monthly meetings is usually devoted to an inspection of the facilities at the place where the meeting is held. Officers and foremen are invited to attend the meetings of the club and to address it.

The co-operative engineering course has the hearty endorsement of President Downs. This is shared by his associates and particularly by Superintendent of Motive Power, C. L. Dickert, in whose department most of the boys are enrolled. The work is directly supervised on the railroad by A. P. Wells, engineer of tests, and on the part of the college by Prof. E. H. Flath. As in the case of the railroad, it has the most enthusiastic support of the president of the college, Dr. M. L. Brittain. The Georgia School of Technology also has two co-operative civil engineering students on the Southern Railway, two mechanical engineering co-operative students on the Atlantic Coast Line at Waycross, Ga., and 12 mechanical engineering co-operative students on the Atlanta, Birmingham & Atlantic at Fitzgerald, Ga."

The Alumnus wishes to thank the Railway Age and Mr. J. D. McCartney, assistant to the President Central of Ga. Ry. Co., for the foregoing article. The complete list of companies employing "co-ops" is as follows:

A. B. & A. Railway Co., Fitzgerald .......... 12
Armstrong & Bros. Co., Atlanta ............. 2
Atlanta Plow Co., Atlanta .................. 2
Atlanta Sheet Metal Work, Atlanta .......... 4
Atlanta Terminal Co., Atlanta ............. 2
Atlanta Terra Cotta Co., College Park ..... 2
Atlanta Utility Works, East Point ..... 1
Atlanta Water Works, Atlanta .............. 2
Atlantic Steel Co., Atlanta .................. 14
Austin Bros. Bridge Co., Atlanta .......... 4
Bailey-Burruss Mfg. Co., Atlanta ........... 2
Barge-Thompson Construction Co., Atlanta 4
Bibb Mfg. Co., Columbus ................... 2
Camp, E. V. & Associates, Atlanta .......... 2
Columbus, Ga., City of, Columbus .......... 2
Central of Georgia Railway Co., Savannah, Macon, Columbus and Cedartown .......... 72
Columbus Power Co., Columbus .............. 12
Cone's Electric Shop, Rome .......... 2
Experimental Lab., Georgia Tech .......... 2
Fulton Bag & Cotton Mills, Atlanta ......... 1
Georgia Railway & Power Co. ............... 49
Finnigan Boiler Co., Atlanta .............. 3
Glover Foundry & Machine Co., Marietta .. 4
Lullwater Manufacturing Co., East Point ... 2
Marbut Lumber Co., Atlanta .............. 2
McCrary Construction Co., Atlanta .......... 2
Murray Co., Atlanta ....................... 2
Mutual Foundry & Machine Shop, Atlanta ... 4
Parker Electric Co., Atlanta ............... 2
Roberts Engineering Co., Atlanta .......... 2
Southern Bell Telephone Co., Atlanta ..... 1
Southern Railway Co., Macon .............. 2
Southern Saw Works, Atlanta .............. 2
Spalding Foundry Co., Atlanta ............ 2
Tenn. Coal, Iron & Ry. Co., Birmingham ... 6
Thomaston Cotton Mills, Thomaston ........ 2
Walsh & Weidner Co., Chattanooga ......... 2
Warren-Webster Heating Co., Atlanta ........ 2
Western Electric Co., Atlanta ............. 6
Westinghouse Electric Co., Atlanta ........ 4
Willingham Tift Lumber Co., Atlanta ....... 2
Other Companies Employing 1 student each ........................................ 11

It is interesting to know that a number of the above employers and supervisors in other companies are Tech men. The "Co-op." Dept. is requesting the cooperation of all alumni in its work.
GEORGIA TECH ALUMNUS

CENTRAL OF GEORGIA RAILWAY COMPANY

Report on Co-Operative Students

Name of Student

Name of Student's Alternate

Date

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>A 90 - 100</th>
<th>B 80 - 99</th>
<th>C 70 - 79</th>
<th>D 60 - 69</th>
<th>E Below 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest in Work</td>
<td>Enthusiastic</td>
<td>Quite Interested</td>
<td>Average Interest</td>
<td>Average Lacks Interest</td>
<td>Disinterested</td>
</tr>
<tr>
<td>Application</td>
<td>Very Industrious</td>
<td>Good Worker</td>
<td>Steady Erratic Lazy</td>
<td>Slow to Learn</td>
<td>Proficient</td>
</tr>
<tr>
<td>Ability to Learn</td>
<td>Quick Learner</td>
<td>Reluctant Learner</td>
<td>Slow to Learn</td>
<td>Dense Learner</td>
<td>Proficient</td>
</tr>
<tr>
<td>Self Reliance</td>
<td>Excellent Self-reliant</td>
<td>Confident Learner</td>
<td>Inaccurate Learner</td>
<td>Careless Learner</td>
<td>Proficient</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Exceptionally Accurate</td>
<td>Average Inaccurate</td>
<td>Inaccurate Learner</td>
<td>Careless Learner</td>
<td>Proficient</td>
</tr>
<tr>
<td>Speed</td>
<td>Very Rapid</td>
<td>Average Slow</td>
<td>Slow to Complete</td>
<td>Unreliable Slow</td>
<td>Proficient</td>
</tr>
<tr>
<td>Reliability</td>
<td>Trustworthy</td>
<td>Reliable</td>
<td>Irregular Unreliable</td>
<td>Unreliable</td>
<td>Proficient</td>
</tr>
<tr>
<td>Initiative</td>
<td>Excellent</td>
<td>Good</td>
<td>Fair</td>
<td>Initiative</td>
<td>Initiative</td>
</tr>
<tr>
<td>Judgment</td>
<td>Exceptionally Good Judgment</td>
<td>Good Judgment</td>
<td>Ordinary Judgment</td>
<td>Fair Judgment</td>
<td>Initiative</td>
</tr>
<tr>
<td>Conduct</td>
<td>Exceptional</td>
<td>Gentlemanly</td>
<td>Well Behaved</td>
<td>Troublesome</td>
<td>Troublesome</td>
</tr>
</tbody>
</table>

Days worked

Department worked in

Type of work done

Additional remarks

Signed

Dept.

This form is to be used in grading the co-operative students of Georgia School of Technology on their co-operative work, and is used in connection with the University card record system of shop work.

It is requested that the space representing the degree or percentage of the character of the student be checked (X) within the block designating the percentage. The man who has the most intimate knowledge of the student's work should indicate the grade.

DEFINITIONS OF CHARACTERISTICS

INTEREST IN WORK refers to the spirit in which a student tackles a job.

APPLICATION is the willingness with which the student grasps new principles or seems at home on a new job.

SELF-RELIANCE is the useful confidence a student has in his own ability to do the work.

ACCURACY is the ability to turn out work which meets the set standard in all respects.

SPEED is judged by the rate of the student's production.

RELIABILITY is the employer's confidence that a student will do the thing expected of him.

INITIATIVE is the ability of a student to think and do for himself.

JUDGMENT is the ability to size up a situation and then pick the right course.

CONDUCT is the attitude taken by a student toward his superiors, his fellow workmen and other people with whom he comes in contact.

NOTE: After this has been made out, please forward to Prof. E.H. Follett, Co-operative Department, Georgia School of Technology, Atlanta, Ga.

Report Form Used by the Railroad for Co-operative Students
Captain Wycoff

Doug Wycoff, all-American fullback, was unanimously elected captain of the 1925 Golden Tornado by his team-mates at the annual football banquet held at the Biltmore. This election to the captaincy climaxes a great season for Doug and shows the esteem and appreciation of the team for this great star. Walter Godwin was elected as alternate to Captain Wycoff, at the same meeting.

Coming to Tech in 1922, a product of the Little Rock High School, Wycoff was the outstanding player on the freshman team. In his sophomore year he continued to display the fine quality of playing and was chosen captain of the composite all-Southern, an honor, very few if any other sophomore player ever won. His work against Notre Dame and V. M. I. was characteristic of an all-American.

In the past season Wycoff was a terror to all opponents of the Tornado, demonstrating in more ways than one that he is a factor to be reckoned with by any team. Beginning the season with the Oglethorpe game, Doug played full time in every game during the season, thus justly earning and deserving the title of "Sixty Minute" Wycoff, a name given him by many sport writers in the South.

Wycoff is the first backfield player to be elected captain of the Tornado since "Red" Barron in 1922, and no doubt will be one of the most brilliant and capable leaders ever seen on Grant Field.

Walt Godwin, of Barnesville, Ga., alternate captain, was one of the best guards in the South. Walt played quarter the first year he was on the varsity, but was shifted to guard at the beginning of the last season, and in that position displayed such ability that he missed selection as all-Southern by only a few points.—(Technique).

Work Begins on New Chemistry Building

In keeping with our extensive building program, the Chemistry building is shortly to undergo a change. The "shacks," as the weather boarded dormitories are commonly known, are being torn down. All the buildings between the present Chemistry building and Fowler street are to be removed.

An addition will be built to the present building which will extend to Fowler street and run back the length of the present building. The style of architecture, that of Jacobean, will be in keeping with the new Physics building.

Modern in every respect, this new unit which has been so carefully planned will be a great forward stride in the development of a greater Georgia Tech. A main entrance will be placed at Fowler street and another one at the intersection of the old building.

The basement floor of the new building will contain an organic laboratory. On the ground floor will be a large lecture room which will seat about two hundred men in addition to laboratories for the freshmen.

On the second floor will be a laboratory for quantitative analysis, and offices for the professors.

The work has already started and it is hoped will be completed for school next fall. With our new Physics building and Chemistry building Tech will be soon ranking foremost among the colleges for equipment and buildings.
DOUG WYCOFF
All Southern—All American
Constitution Offers Trophy to Winner of Tech-Georgia Football Series

Mr. Clark Howell, editor of The Atlanta Constitution, announced at the football banquet that the Constitution would offer a $500 trophy, to be awarded to the winner of the three game football series between Georgia and Tech which begins next fall.

The offer by Mr. Howell came as a total surprise and received the hearty endorsement of alumni and officials of both institutions. Though a graduate of the University of Georgia, Mr. Howell is a trustee of both Georgia and Tech. With the resumption of athletic relations between the two schools, the action of The Constitution is predicted to add materially to their friendly rivalry.

Dr. Brittain in commending the offer, said, "I very heartily indorse the spirit in which the offer is made, and particularly its appeal that the games scheduled between Georgia and Tech be conducted on a basis of gentlemanly sportsmanship. This echoes the sentiment of the student body of the Tech and I am sure the University boys feel the same."

In behalf of the University, Dr. S. V. Sanford, faculty director of athletics, said in a letter to Mr. Clark Howell, "You have always been the strong friend of both institutions, and the staunch supporter of their athletic activities.

"That the teams of both Georgia Tech and University of Georgia will give a good account of themselves and that the members of the teams and the students of both institutions will display the highest type of sportsmanship, I do not doubt. Wherever the victory may fall it will be worthily won and gracefully worn."

The game scheduled for November 14, 1925, has already excited much comment and speculation. It is estimated that a record crowd will be present. One Georgia alumnus suggested that Atlanta make "a Roman holiday" of each of these games. The new stands to be constructed at the south end of Grant Field will increase the total seating capacity to 45,000. The Constitution's trophy has but augmented the already keen interest in the coming contests.

Tornado Leads With Composite Gridders

For five years now the wearers of the white and gold have led the field in all-Southern football honors, having placed nine men on the composite mythical eleven in that time. The University of Georgia comes second with eight, and Vanderbilt third with five—then Auburn, 4; Florida, 4; Alabama, 3; Center, 3; and Mississippi College, 1.

Red Barron tops the individual players since 1920, with three years to his credit. The other Tech players made places in that time as follows: Al Staton, 2; Doug Wycoff, 2; and Bill Finch, Oscar Davis, Judy Harlan, Buck Flowers, Claire Frye and John Staton, one each.
In Memory of Dr. Emerson From the Faculty

In August of 1888, William Henry Emerson was elected head of the Department of Chemistry at the Georgia School of Technology. During the thirty-six years that followed—until the morning of Thursday, November 13, 1924—his major life interests moved within the boundaries of that institution. What this fact meant to the school is not easy to estimate. The Georgia Tech is a fabric woven of the many personalities that have had their part in shaping it; but no one personality has so generously and positively determined its standards and ideals as has that of Dr. Emerson.

His was an unusual personality, such as any community has the privilege of knowing but once or twice during a generation. He chose as the motto to be engraved upon the corner-stone of his Chemistry Building the words "IN THE FIRST PLACE I WOULD PUT ACCURACY." It was a motto that was graven upon the corner-stone of his own being. Accuracy is truth translated into the language of science, truth so far as it may be apprehended by the human intellect. His judgments and conduct were inflexibly adjusted to this standard. It was, however, an accuracy perceived in relation to the larger issues of life,—which is Wisdom; and conceived in relation to a consciousness of human frailty,—which is Tolerance. He approximated as nearly as is humanly possible the ideal of utter justice.

His scholarship was ripe and sound. Within his special field, of Chemistry, it was meticulous in its thoroughness; the one fault toward which he was uncompromising was intellectual dishonesty or pretense. This scholarship, however, extended far into other, and unrelated, areas of knowledge, to a degree that was a source of continually renewed surprise among even his most intimate associates. This reticence respecting his attainments was merely one manifestation of that exquisite modesty which permeated his every relation in life.

The watchword of his life was Duty. He expected every man to do his duty; most of all, he demanded this of himself. He pushed this conscientiousness often to the point of doing himself grave physical hurt. Yet the example of performance that he lived is a precious and durable thing; and through him we are able to believe "In the noble and great who are gone; Pure souls honored and blest By former ages, who else Seemed but a dream of the heart, Seemed but a cry of desire."

He has left us. It is as if the central column of the building had fallen. And deeply we grieve for him. If we realize anew and with peculiar poignancy the rare privilege that was ours in being permitted to associate and work with him, this is not a new knowledge: we appreciated him, we realized this privilege, while he was yet with us. And so now

"Loftily lying Leave him—still loftier than the world suspects, Living and dying."

Respectfully submitted,
GILBERT H. BÖGGS, Chairman,
W. VERNON SKILES,
WILLIAM GILMER PERRY,
Committee for the Faculty.
November 28, 1924.

TO THE GEORGIA TECH NATIONAL ALUMNI ASSOCIATION

The Georgia Tech National Alumni Association is in receipt of the following card from Mrs. Emerson and family:

"Mrs. W. H. Emerson and family deeply appreciate your kind expression of sympathy in their recent bereavement."
Twenty-three Men Get Football Letters

At the 1925 football banquet, given at the Biltmore Friday night, December 12, twenty-three men were awarded letters as a recognition of their faithfulness and ability as football players. But before getting down to the serious business of eating, the team chose their leaders for next year, captain and alternate captain.

The banquet was held after the election, and it was a football banquet from start to finish. There were plenty of eats, and gold footballs, sport writers, and football talkers, nothing being omitted that might have added to the sportsmanlike atmosphere of the place.

Dr. M. L. Brittain was toastmaster of the evening. Many of the Yellow Jackets demonstrated their ability in public speaking, and Mr. Clark Howell furnished much spirit for the occasion by offering a fine trophy for next season's stellar contestants, Tech and Georgia. This offer was the spark that started a discussion of the great game between Tech and Georgia, and there was much evidence of the fine spirit which will prevail when these two great southern teams meet to vie once more for honors.

The members of the team did not forget Coach Alexander, and many fine tributes were paid to the man who so successfully guided the Tornado through the past season. Monk Nabelle, as the representative of the football team, presented Coach Alec with a suit of clothes, and John Staton presented Wycoff with a present most suitable for a warrior who was a star in all the games of the past season. The present was a wood-mounted action picture of the great Wycoff in a most characteristic football pose. Nor were the seniors, who had played their last game for Tech, unmentioned. They were all presented with gold T cuff links by Dr. J. B. Crenshaw, and though merry, they were all impressed by the fact that they had to leave the team for which they had given so much, and the Jackets all around them were brought to the realization that they had lost seven men that had been of great strength and aid during the past few years of Tech football. Captain George Gardner was presented with a Tech captain's gold ring by Coach Alexander.

The seven men, who were bidding farewell to the football squad, were: Captain George Gardner, Monk Nabelle, Fred Moore, Bip Farnsworth, Roy Huf-fines, Johnny Glenn, Joe Usry.—(Technique).

Letters Awarded to Cross Country Team

Since the beginning of school the men interested in Tech's cross-country team have been practicing diligently, and as a result they produced a record which teams of future years will find difficult in equalling. Coach Griffin should be, and no doubt is, proud of the record of his harriers. Now that the season is over the proper recompense for their labor is awarded to nine men on the team. This reward comes in the form of a sweater with the Tech cross-coun-

try letter attached.

Men to gain the distinction of becoming wearers of the "T" include: Captain Mitchell, Saks, Goodburn, Fichett, Stebbins, Davies, Boyle, Daves, and Roberts. The above mentioned are to be congratulated for their performances during the season and with only two or three men lost by graduation, the team of next year should be more experienced and better equipped to make their batting average a thousand for the season.
Houston, Texas, Alumni Organize

Houston, Texas, Dec. 8, 1924.

Mr. R. Jack Thiesen, Editor,
Tech Alumnus,
Atlanta, Ga.

Dear Thiesen:

It gives me great pleasure to let you know that we Tech boys here in Houston got together at the Rice Hotel for the first time on Tuesday night, December 2nd. We had as our guest, Coach J. W. Heisman.

Although it was a very impromptu meeting, there were fourteen there and we all had a most delightful time. Coach Heisman gave us a most interesting talk. I am enclosing a clipping giving the names of the men at the meeting. In addition to these men I have the names of ten other Tech men here.

The fellows are all very enthusiastic over the idea of an organization here of Georgia Tech Alumni Club and I have been appointed Secretary to get all the necessary information to put it through. If you will kindly forward the required data and also any other information or suggestions which you could make, same will be greatly appreciated.

I have been receiving my Alumnus regularly and thoroughly enjoy it. Personally, and as representative of the Tech Club of Houston, I want to congratulate you and your staff on your wonderful success in putting the Tech Alumnus through as you have. We all wish you continuous growth and success.

Hoping to hear from you soon and with best wishes to all the boys, we are

Sincerely yours,

W. M. FULLER.

Clipping titled "Alumni of Tech Honor Heisman" reads as follows:

"The Georgia Tech Alumni Club honored Coach John W. Heisman with a dinner at the Rice Hotel Tuesday night. It was at the Atlanta school that the Owl coach first gained national recognition. After the dinner Mr. Heisman made a short talk, expressing his pleasure and appreciation of the mark of esteem which had been shown him.

A permanent Georgia Tech Club will be formed, it was decided. W. M. Fuller is secretary of the new organization, and any Tech men in Houston or vicinity who were not at the Heisman dinner are requested to get in touch with Mr. Fuller at P. 2176.

"The following Tech men were present Tuesday night:


(Fine work, Houston; we always have known you to be progressive. Come on other cities!)

Former Instructor Dies in California

John A. Bailey, formerly a well-known Atlantan and instructor at Georgia Tech, died November 10 in Los Angeles, according to information received here recently.

Mr. Bailey's death followed an operation necessitated by an illness which had wrecked his health, it is said.

During part of the time Mr. Bailey lived in Atlanta he was in the real estate business, but on account of ill health moved to Los Angeles about one year ago. He was well known here and a leader in civic and business affairs.

Funeral services and interment were held in Los Angeles.
Grant Field to Have One of the Largest Stadiums in the Country By Next Fall

Improvements which have been authorized for Grant Field will, when completed, give Tech one of the finest athletic fields in the country. The board of directors of the Athletic Association at their last monthly meeting decided to complete the concrete "U" and to make many other changes to improve the field.

When the project is completed the south ends of the east and west concrete stands will be joined by a rounded connecting stand. This will cost over a hundred thousand dollars, and will be paid for from the gate receipts of the games for the next few years. The capacity of the concrete stands will be increased so as to seat 36,000 people. Temporary wooden stands can be erected at the north end of the field to complete the bowl, and the seating capacity raised so as to accommodate nearly 45,000 spectators. Tech will then have the largest stadium south of Baltimore, and one of the ten largest in the entire country. Work will be started as soon as plans can be drawn, bids received, and contracts let.

Several other improvements have been sanctioned by the board for the betterment of Grant Field. These include the completion of the dressing rooms under the east stands, the building of boxes at the bases of the east and west stands to increase their seating capacities, and the reconditioning of the quarter-mile cinder track which runs around the gridiron. The baseball diamond will be moved to the lower end of the field, and the football field shifted south some fifteen yards. Wooden stands will be placed near the diamond to accommodate baseball fans.

The entire gridiron will be newly turfed and allowed to grow unhampered until next fall. It is then proposed to have the teams practice on another field so that grass should grow on Grant Field throughout the year, and it should present a pleasing appearance to the crowd of football enthusiasts who collect next year to watch the performances of the Golden Tornado.

Tech's Track Schedule Has Seven Meets

By FRED MOORE

Georgia Tech track schedule as announced by Coach George Griffin for 1925 is one of the most attractive ever arranged for the winged Jackets.

The dual meet with University of Georgia on Grant Field May 2, and the Southern Relay Carnival, also to be held on Grant Field, April 18, are the high spots of this most interesting menu.

The Jacket track season officially opens April 8, when the athletes of Tech gather for the annual field day. Competition between the classes is very keen on this day and a large percentage of the student body takes part. Many athletes for the varsity team are discovered during these annual affairs.

The southern relays, instituted at Tech three years ago, form the biggest sporting event of the kind in the south and is growing in popularity each year. Last spring over 500 athletes, representing forty colleges and prep schools, participated in this meet and many records fell by the wayside. Among these was the American javelin throw formerly held by Angier, of University of Illinois.

Priester, of Mississippi Agricultural and Mechanical, threw the Finnish toy
a distance of 205.04 feet, bettering the record by over a foot. Homer Whelchel, of Tech, led until the final throw, when Priester got away a good one. These two went to the Olympic games in Paris as members of the American team and gave a good account of themselves.

The third date on the Tech schedule is a triangular meet in Baton Rouge, La., with Auburn and Louisiana State as the other participants. The Jackets have always met Auburn in a dual meet in the past, but it has been several years since they have competed against the Bayou Tigers. Louisiana State University has an excellent track team and year in and year out they are perhaps as good as Mississippi Agricultural and Mechanical.

The dual meet with Georgia is the real feature of the track season, as it has been several years since these two rivals have met in a dual affair. The state meet at Emory has been practically a meet between these two teams, so it was decided to eliminate the other participants and engage in a dual meet rather than enter the state contest.

Another dual meet with Clemson also promises to be a headliner. The Tigers have been coming to the front rapidly in track and last spring they entered several crack teams in the relays. Robinson is one of the best sprinters in the south and should give Tech's best a good run in the dashes.

The Southern Conference meet at Sewanee and the Southeastern Amateur Athletic Union meet on Grant Field bring the track season to a close. The Jackets will not have much chance of taking off first honors at the conference meet, but they should be one of the strongest contenders in the Amateur Athletic Union contest.

The complete schedule is as follows:

April 8—Field Day, Grant Field.
April 18—Relay Carnival, Grant Field.
May 2—Dual Meet, University of Georgia, Grant Field.
May 9—Dual Meet, Clemson, Grant Field.
May 15-16—Conference Meet, Sewanee, Tenn.
May 23—Southeastern A. A. U. Meet.

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Anent Camp's All-American

In the December 30 issue of the Atlanta Journal, Morgan Blake, sport editor, in one of his articles makes the following statement:

"Wycoff, McBride and Layden, regarded by ninety-five per cent of the grid experts as the three leading fullbacks of the country, were all overlook-
ed by Walter Camp. They didn't make a place on any of the three teams selected. The fullback on the second team was Crowley, halfback of Notre Dame, who will be surprised to learn he has such a reputation as a line backer. Strader, of St. Mary's, is placed at fullback on the third team."

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Thanks, Alumni

Your secretary wishes to take this method of sincerely thanking his many fine friends among the alumni for their splendid Christmas expressions to him by greeting cards and letters—all of which makes living very much worthwhile.
The "Y" Jacket

On December 20, volume 1, number 1, of the "Y" Jacket made its appearance on the campus. This is a publication, or four-page bulletin rather, gotten out by the Tech Y. M. C. A. Mr. Cashion, the popular new "Y" secretary, and the editorial staff deserve all credit for the good work that they are doing in this connection.

The bulletin is full of newsy Y. M. C. A. information and contains many other items of interest. It will fill the need for a publication of its kind at Tech and we are pleased to quote from it in the following article:

Christmas Tree Given to Buttermilks

Nearly two hundred little "buttermilks" around Tech crowded into the Y. M. C. A. chapel Wednesday afternoon, December 17, at 3:30 to enjoy the Christmas tree which Bip Farnsworth's Boys Work Committee had prepared for them. The huge tree was placed upon the stage, and around the base were piled the packages of presents and candy which were to be given.

Bip welcomed them in a short introductory talk and then introduced Dr. Memminger, of the All Saints Episcopal Church, who told the children something of the real meaning of Christmas. Miss Ruth Paden recited "Twas the Night Before Christmas," and then the real business of the afternoon as far as the small guests were concerned started. Roy Huffines made a very realistic Santa Claus, and handed out packages to each kid in the long line which formed and passed by the platform.

This work was made possible through the generosity of the merchants of the city and the funds collected from the students by a tag day on the Saturday preceding. Fifty dollars was collected by the tagging, which went a long way in paying the expenses of the affair. Much of the fruit and candy was donated by merchants of the city.

The small boys around Tech have been organized into a club for the Boys Work Committee for the purpose of turning their sometimes destructive energy into something which will help them to improve themselves. Many of them, in fact practically all of them, come from families of very moderate means, and the conditions under which they live are not of the best. Their interest has been aroused by means of free admission to football games and events similar to the Christmas tree, and it is hoped that by the end of the year real headway will have been made in transforming them from a bunch of little roughnecks into good citizens in the making. Much credit is due to Farnsworth and his committee for their excellent work in this connection.
Weddings and Engagements

Elyea-Minchener

The recent announcement of the engagement of Miss Dorothy Elyea, daughter of Mr. and Mrs. Charles L. Elyea, of Atlanta, and Mr. Calhoun Emmet Minchener, son of Mr. B. E. Minchener, of Montgomery, Ala., was one of great social interest throughout the South.

Kimble-Gray

Interest centers in the announcement of the marriage of Miss Sara Adair Gray, daughter of Mr. and Mrs. H. A. Gray, of Carrollton, to Mr. Francis Marion Kimble, Jr., which was solemnized at the First Methodist Church, Carrollton, Ga., Saturday evening, December 20, at 8 o'clock.

Little-Beall

Centering wide social interest in Atlanta and Charlotte, N. C., and the South, was the recent marriage of Miss Lucille Agnes Little, of Charlotte, N. C., to Mr. John Collier Beall, of Charlotte, N. C., formerly of Atlanta.

Seals-Ballard

A wedding of great social interest was that of Miss Annie Lois Seals and Mr. Durwood Lee Ballard, which was solemnized at 6 o'clock Wednesday afternoon, December 17, at the First Methodist Church, Waycross, Ga.

Vaughan-Lester

A marriage of unusual interest was that of Miss Katherine Raynor Vaughan and Mr. George Nelson Lester, Jr., which was solemnized Saturday, December 20, at 5:30 o'clock at the North Avenue Presbyterian Church, Atlanta.

Reports We Like to Hear—Congratulations

2710 Cathedral Ave., N. W.

Mr. R. Jack Thiesen, Sec'y.,
Ga. Tech Alumni Assn.,
Atlanta, Ga.

Dear Thiesen:

I am proud to report the arrival in my family of an eight-pound baby boy on Sunday, December 14th, Mark Cooper Pope III. All is going well with both mother and baby.

I will have him ready for Tech as soon as possible.

Regards and a Merry Christmas to you and all Techites.

Sincerely,
MARK C. POPE, JR.,
B. S. in E. E. Class, 1918.

And Another

Bill Fincher, standby and former all-American Tech grid star, is the proud father of a newly arrived daughter—you can bet she'll wear the white and gold.

Another Interesting Letter

GENERAL MOTORS ACCEPTANCE CORPORATION
Atlanta, Ga., Dec. 20, 1924.

My Dear Mr. Thiesen:

Thank you very much indeed for your letter of November 29, to which you attached my alumni membership card.

In the December issue of “Georgia Tech Alumnus,” I notice you request the present address of B. R. Adams. “B. R.” is now with G. M. A. C., Charlotte, N. C., in the capacity of “field representative.”

Incidentally, D. E. Walraven, of the class of ’22, is also with G. M. A. C., Charlotte, in the capacity of cashier.

Please believe me in that I am very much interested in the Alumni Association and will do anything within my power for the best interests of the association or the “ol’ Alma Mater” whenever the occasion arises.

Sincerely yours,
CARLTON G. GEORGE,
B. C. S., ’23.
New York Georgia Tech Club

C. Adamson, Jr., Raymond Whitecomb Co.
T. B. Adkins, 98 Grove St., Stamford.

W. G. Allen, 253 Broadway.
C. B. Amorous, the Locomobile Co., 16 W. 61st St.
L. K. Anderson, Jr., 620 Broadway.
J. T. Anthony, 39 Church St.
G. W. Barnwell, City Chemical Co., 525 N. 3rd St., Camden, N. J.
J. E. Biggs, National City Company, 55 Wall St.

O. Blake, 78-80th St., Brooklyn.
O. W. Bowen, 709 W. 169th St.
W. R. Boyd, 315 W. 97th St.
P. C. Brooks, 39 Church St.

D. G. Bryan, 132 E. 44th St.
R. W. Bryan, Room 1206, 270 Madison Ave.
Newton A. Burgess, 141 Broadway.
Guy Carpenter, Jr., 88 Maiden Lane.
Alf L. Carroll, Central Y. M. C. A., 55 Hanson Place, Brooklyn.
J. C. Chappell, 30 Church St.
L. C. Collier, 60 Wall St.
H. T. Collins, A. O. Schoonmaker, 30 University Place.
C. M. Colon, 223 Riverside Drive.
F. E. Conklin, Bay Side Blvd., Long Island.
Thos. L. Corwin, Western Electric Co., 463 West St.

P. G. Davies, 53 W. 11th St.
A. C. DeLorme, 126 Sterling Place.
A. D. Diego, Consolidated Gas Co.
G. W. Duncan, Cons. Textile Corp., 88 Worth Street.

R. G. DuPre, Room 5031, 120 Broadway.
T. J. Elrod, Continental Travel Club, No. 235 Fifth Ave.
H. B. Evans, 150 Lafayette St.
L. R. Fleck, 25 Astor Place.
R. S. Fleet, 27 E. 125th St.
C. W. Franklin, United Elec. Lt. & Power Co., 130 E. 15th St.

Guy Garrard, 350 Broadway.
L M. Gill, 318 31st St., Woodcliffe-on-Hudson, N. J.
G. R. Glenn, 49-51 Wall St.
W. R. Glisson, Holmes Electric Co., 139 Centre St.
R. F. Golden, 180 W. Fairview Ave., South Orange, N. J.
H. C. Grouse, 120 W. 32nd St.
R. A. Halliburton, 45 Broadway.

F. H. Hardin, N. Y. Central R. R., Grand Central Terminal.
D. W. Harris, 60 Wall St.
Wm H. Hawkes, 30 Church St.
G. A. Hendrie, 501 Fifth Ave.
A. W. Hill, Geo. H. Burr & Co., 120 Broadway.

Dean Hill, 17 Madison Ave.
G. M. Hill, 58 W. 59th St.
W. C. Holmes, 440 Fourth Ave.
Edgar H. Hubert, 29 W. 39th St.
E. M. Jackson, Douglastown Sta., Long Island.
Percy Jackson, 2033-11 Broadway.
W. H. Jackson, Douglas Manor, Long Island.
F. J. Johnson, Room 305, 5 Beekman St.
G. G. Jones, 223 Riverside Drive.
Wm. F. Keenan, 1546 Hancock St., Brooklyn.
John G. Kinimer, Johnson & Higgins, 49 Wall St.

Edgar Kobak, Electrical World, 36th St. & 10th Ave.
D. W. Landers 195 Broadway.
W. Langston, 165 Broadway.
F. Loughran, Jr., Alex Hamilton Inst., Astor Place.

W. V. Lovell, Eng Dept., NELA, 29 W. 39th Street.
Jonathan Lucas, H. L. Doherty Co., 10 Bridge St.

Everett Martin, 134 W. 32nd St.
S. W. Mays, 25 W. 43rd St.
F. F. Merrian, 463 W. 113th St.
G. J. Merritt, 165 Broadway.
H. H. Miles, 1328 Broadway.
E. J. Mitchell, 30 Church St.
Arthur Murray, 801 Madison Ave.

Eddie O'Brien, 2628 27th St., East, Sheepshead Bay, L. I.
M. Ohlman, 116 Nassau St.
W. F. Osborne The Texas Co., 17 Battery Place.

J. L. Parker, H. L. Doherty Co., 10 Bridge Street.

A. W. Perryman, Y. M. C. A., Box 414.
Ralph W. Reynolds, N. Y. Edison Co., 44 E. 23rd St.
W. A. Reynolds Lunkenheimer Co., 129 Lafayette St.
P. M. Rice, Jr., 280 Broadway.
J. W. Robinson, 195 Broadway.
W. A. Robinson, 101 Park Place.
J. K. Rockey, Amer. Tel. & Tel. Co., 195 Broadway.

A. H. Rosenfield, 618 W. 113th St.
A. A. Sawtell, Pathe Exchange, Inc., 1300 Broadway.
A. L. Schlesinger, 55 W. Grove St., Lynbrook, N. Y.
B. W. Seawall, The Texas Co., 17 Battery Place.
H. Segal, 16 W. 11th St.
G. W. Semmes, Semmes & Akerlund, 30 E. 42nd St.
M. H. Slaughter, Western Electric Co., 463 West St.
Eric W. Smith, Ray D. Lillibridge, Inc., 111 Broadway.
F. H. Smith, Goode Radio Stores, Myrtle Ave., Ridgewood, L. I.
F. P. Sneed, 1165 Park Ave.
P. V. Stephens, Room 305, 5 Beekman St.
B. Strauss, 200 W. 56th St.

J. J. Strickland, 60 Wall St.
J. W. Sutcliffe, 539 W. 141st St.
F. P. Taylor, 198 Halsey St., Brooklyn.
J. H. Thiessen, 608 W. 188th St.
J. F. Towers, 116 Broadway.
W. A. Troy, Amer. Cotton Oil Co., 65 Broadway.
W. O. Teague, F. R. Cruikshank & Co., No. 1 Liberty St.
R. B. Van Wormer, 297 Fourth Ave.
Earl Walton, 10 Van Nest Place.
W. L. Wooten, Grantex Co., 171 Madison Avenue.

With the Alumni

IMPORTANT

With the October issue of the Alumnus we began the publication of our geographical mailing list in alphabetical order; this will be continued until the list is completed. At the same time we shall carry the names of those whose addresses are verified during the month along with the names of the Atlanta Alumni whom we are now canvassing.

Check us up on your address, advise us as to your class and degree, or class from which you withdrew, your business address, capacity, and connection, whether married or single, honors in school and since, and war activities in civil or enlisted life.

Please do this at once for there is an enormous amount of work to be done in this connection and you can help very materially by spending two cents and giving us a few minutes of your time.

We have the complete information on a number of you, but we want it on all of you—repeating won’t work any hardships. Furthermore, we want to find those on whom we have no record.

GEORGIA

Aaron—Chas. S. Aaron.
Acworth—H. D. Humphries; B. L. McMillen, Jr.
Adrian—G. L. Blissett; T. J. James.


Ashburn—W. G. Shingle, Ashburn Bank; S. K. Smith, Water & Light Plant.
Atappulga—D. D. Smith.


Incorrect Addresses

We would appreciate the correct addresses of those listed under this heading and of those who are not getting the Alumnus regularly during the school year. Everyone is wanted; all former students of Georgia Tech are eligible.

Atlanta Alumni:
- Edwin P. Almond
- C. C. Applegate
- Homer Ashford
- Wm. R. Bedell
- T. P. Branch, Jr.
- W. H. Brimberry
- A. E. Constantine
- W. T. Cox
- D. O. Doughtery
- C. S. Gardner
- Thos. Gardner
- L. A. Hamilton
- J. L. Hall

Buchanan—G. R. Newton.
Buena Vista—F. G. Butt, G. R. Lowe; W. B. Short.
Bullochville—J. A. Aycock.
Butler—J. L. Wilson.
Byromville—H. B. Chapman; Mrs. A. A. Joiner.
Byron—B. L. Avera.

Corrections.

G. A. Chalker, Jr., President Chalker, Lund and Crittenden, Contractors, West Palm Beach, Fla., was incorrectly listed in the December Alumnus as C. A. Walker under the same city. We regret the error and wish to make correction as given.

Addresses Recently Verified

Mark C. Pope, Jr., B. S. E. E. '18, 2710 Cathedral Ave., N. W., Washington, D. C.

Atlanta Alumni Recently Canvassed


Note—There are enough names of Tech men in a number of the foregoing cities for you to form real live Tech clubs; so it is up to that old spirit in you men to put over the job. Why not have a noon-day luncheon together now and then, at least once a month, and get your club to functioning. The National Association will be only too glad to send you all the information you desire as to organization and the good you can do for Tech, her teams, and yourselves.
Sam E. Levy, Ga. Tech '17

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For Further Information, Address
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