In spite of its size and the enormous power developed by this reversing blooming mill motor it reverses many times a minute. Its maximum rating is 22,000 h.p., equivalent to the muscle power of 176,000 men.

“*The 100,000 Man*”

Of Napoleon it was said that his presence on the battlefield was equivalent to 100,000 additional men. “The 100,000 man,” his enemies called him.

Napoleon dealt in death. Big General Electric motors, like the one in the picture, lift heavy loads off human shoulders, and contribute to the enrichment of life.

**GENERAL ELECTRIC**
The Beginning of Georgia Tech

By Dr. M. L. BRITTAIN
President Georgia School of Technology

The request comes to outline the early days of Georgia Tech, and in particular to tell of its first two presidents, Dr. I. S. Hopkins and Dr. Lyman Hall. It is a pleasure to respond for I was thrown in close companionship with both men, and know intimately of their work in the state as well as at this institution.

Dr. Hopkins was president of Emory college the year I graduated in 1886, and there he planned and completed the first building in the state for the technical training of young men. The new movement was not altogether popular with some of the trustees, and was really the rather unpopular child of the president.

He was not only a profound scholar and thinker but in addition possessed rare technical ability. He was skilled both in woodwork and machinery, and it was frequently told in the student body that he could earn the wages of a master mechanic in the Atlanta machine shops as well as he could translate the Odes of Horace or the lines of the Iliad.

It was logical, therefore, when in 1885, under the leadership of Honorable N. E. Harris, the legislature appropriated $65,000 for a technical school, that Dr. Hopkins was made president of the new institution. The installation exercises were held in the opera house in Atlanta, October 8, 1888. Five acres of land had been purchased from the Peters Land Company and Mr. Richard Peters had given four acres additional.

The first picture on the following page shows the nine members of the faculty in these early days. Dr. Hopkins is in the center, and immediately on his left is Professor Lyman Hall, at that time head of the department of mathematics. Dr. W. H. Emerson, of the department of chemistry, is standing on Professor Hall’s left.

Dr. Hopkins continued as president until 1896. At that time, Lyman Hall had just completed an algebra, which was widely used in the state. He was captain also of the distinguished old company, long prominent in Atlanta history, “The Gate City Guard.” He
Who Can Name These Members of Tech’s Faculty?

The First Faculty at Georgia Tech, Showing President Isaac Hopkins, Founder, in the Insert at the Left, and Dr. Lyman Hall, Second President, in the Insert at the Right
was made president on the resignation of Dr. Hopkins, and continued in this position until his health failed and he died in the year 1905.

To succeed President Hall, Dr. K. G. Matheson, who was then professor of English, was elected by the trustees. The school continued to make progress under his leadership and new departments and new buildings were added. He served until April 1, 1922, when he resigned to become president of Drexel Institute.

Mr. N. P. Pratt, one of the members of the board of trustees, served as administrative executive, ad interim, for four months until the election of M. L. Brittain as the fourth president, July 14, 1922.

Picture number two, next page, showing three of the first buildings, gives a fair idea of the appearance of the campus in the nineties. By purchase and gifts during the last thirty years, it has been increased until it now comprises thirty-five acres. A fire destroyed the original shop building in 1891. There are now on the campus the following:

The Lyman Hall laboratory, academic building, electrical building, old shop building, Carnegie library, Whitehead Memorial hospital, Y. M. C. A. building, Knowles dormitory, Swann dormitory, the new power plant, the new mechanical building, Grant Field stadium, automotive building, military building, textile building, president's home, the new physics buildings, the ceramic building and other small buildings. Several of these and much of the machinery and apparatus have been given by generous friends. The Knowles and Swann dormitories, the A. French Textile building, Carnegie library, the Y. M. C. A., Joseph Brown Whitehead Memorial hospital and the physics building are prominent among these gifts.

Honorable Julius L. Brown left two-thirds of his estate to the school with the words, "For I believe the School of Technology is worth all the Georgia colleges combined." In addition to these gifts from individuals and corporations, the alumni and friends have subscribed a Greater Tech fund of more than one and a half million dollars.

Besides these large gifts, the school has been aided by hundreds of generous friends. The latest department established is that of ceramic engineering towards which nearly $40,000 has been contributed within the last few months. To head this department, A. V. Henry, Ph.D., from Ohio State University, has been secured and has already entered upon his work. With the large amount of clay deposits in this state, it is believed that this department will render a real service to Georgia. It is the first department of ceramic engineering to be established south of the Ohio river and one of the few in the United States. We expect it to lift the ceramic industry in Georgia from the negro and wheelbarrow status by which we get a few cents a pound for the raw material to the higher and more profitable standard of the valuable manufactured product.

The total enrollment for the first year was 130; for the last year 3,182, divided as follows:

College day courses, 1,904; night school of commerce, 452; evening school of applied science, 332; summer school, 405; rehabilitation non-collegiate, 419; total, 3,512; less duplicates, 330; total net enrollment, 3,182.

Naturally the need for strong training along commercial lines was early seen, and a strong department of commerce was established at Georgia Tech with an evening school with similar courses in the center of the city.

Another extension branch of the institution is seen in the Evening School of Applied Science. This is conducted on the Tech campus, and offers special courses in such practical engineering subjects as machine design, auto mechanics, etc.

This same spirit of energy, and progress has extended to the students in their athletic games, and has made the "Golden Tornado" widely known and appreciated. With the best athletic
THEN AND NOW

The Whole Plant and Student Body in 1888

Ceramics Building, Newest Unit of Many, 1924
field in the South, through the generosity of Honorable John W. Grant, Tech has fairly earned leadership on the football field as well as in engineering. From all over the state and South, visitors come to watch the warriors in gold and white in their contests with the leading teams of the country. Atlanta has always been particularly devoted to the institution. As one of the ladies, who writes for the social columns of a leading daily paper recently expressed it, "The whole heart of Atlanta grieves when anything wounds or distresses Tech." In every department the school has become the object of pride to the city and state, and Georgia Tech is, in reality, as has been frequently stated, "a technical school with a national reputation."—Oct. Number, Atlanta City Builder.

The Last Yard

It's the last yard that counts.
Twice the Germans were on the verge of taking the Channel ports, of taking Paris, of winning the Great War. They could not make the last yard—and
James G. Blaine lacked a few hundred votes of winning the presidency of the United States. If only he had said the right word at a certain critical moment! But the right word was not said. He could not make the last yard—and
The great horse, Epinard, has lost three international races within the last 60 days, each by a stride, by a nose, by a shadow. He could not make the last yard and he goes back home—but
Walter Johnson MADE the last yard. In the last moment of the last game of his great career, he made the distance and wins a final glory.
In all the battles of this world, victory belongs to those who have THE UNSHAKEN WILL TO WIN THE LAST YARD.

Indiana Alumnus,
Oct. 18, 1924.

W. L. BRYAN.

Come On, Tech!

Atlanta, Ga.,
Oct. 21st, 1924.

Mr. W. J. Milner, Sr.,
P. O. Box 1297,
Atlanta, Ga.
My dear Mr. Milner:
The attached check of $15.00 is in full of subscription from a lady subscriber. The payment in full at this time is for the reason that we won the Penn State Game.

Please notify the proper authorities that if we win the Notre Dame game that a check of like amount will be given us.

This lady states that she cannot bet on the games but she can subscribe when we win.

Very truly yours,

W. T. Perkerson,
Treasurer,
Greater Georgia Tech Campaign Fund.
On October 11th, Florida and Tech fought to a 7 to 7 tie in one of the most thrilling games played on Grant Field in many a day. It is a rare occasion to see the Tornado striving to the uttermost to ward off defeat that is ever imminent. And that is just what was happening the majority of the time that the Alligators were on the field.

Coach Van Fleet brought a team of veterans from Florida that had been concentrating every effort, forming every plan, and giving all of their attention all to one thing—to decisively defeat Georgia Tech. Every man on the Florida team is a star of the first magnitude and never was a team better primed for a game. This was the situation that faced the Tornado.

While the Tech team was in the best of condition for the game they were forced to play conservatively for the Florida game was just one in many.

In response to the starting whistle Wycoff kicked off over the Florida goal line. Then followed a punting duel between Newton and Wycoff. And every one present will tell you that those boys can punt. For the whole game each of them averaged forty-four yards.

After a few exchanges of punts Florida began to crave action and this same activity resulted in a score for Tech. The score came about in this fashion. Florida held the ball on her 35-yard line. Jones, Florida half, started on a run around right end and was tackled so severely by both Merkle and Williams that the ball bounced out of his embrace and Wycoff, who has an attraction for footballs, was hanging around for just such an event to occur, gathered up the ellipsoid and gayly galloped the twenty-five yards that separated him from the Florida goal line. Williams added the accessory point.

Then came the second quarter and Florida's tying score. Wycoff fumbled and Jones recovered for Florida on Tech's 25-yard line. Florida then started an infallible aerial attack that carried the ball within Tech's ten-yard line. On the first two plays Florida netted six yards and on the next two the Florida backs found the Tech line a stone wall. Tech punted out of danger and received the ball on the return punt. Craig Wilton fumbled and Jones, who also has a hankering for footballs, again recovered for Florida on Tech's 17-yard line. Florida, having found the ground a place inconvenient for traveling again resorted to the atmosphere. On the first pass, Wilton obligingly kept the ball off the ground until Florida's receiver was ready and then the ball bounced from Wilton's fond embrace to that of the Floridian. Another pretty pass, Newton to Brown, put the ball on Tech's 2-yard line and first down. Only one down was needed, however, for on the first play Jones flipped the ball far out on Tech's right end to Newton, who was over the goal line. Newton also added the extra point.

This ended the scoring for both teams. The half ended and it was Florida's in everything but the score. In the third quarter neither team gained a decided advantage. This quarter might be called a draw.

The fourth quarter was Tech's by a slight margin. Harris and Farnsworth were sent in to resuscitate the backfield and for the first time Tech assured the offensive. Short end runs and short off-tackle plays resulted in four first downs for Tech and it seemed for a few minutes that victory was on the way. When Florida held Angley was sent in to drop-kick. But a few more plays carried the ball to Florida's 15-yard line and Florida again tightened. Tom then tried his drop-kick and missed by only a few feet. Florida took the ball on her twenty-yard line and made a first down on the first play with a pretty end run. But it was too late to win a football game. The whistle sounded the knell to victory for anybody.—Technique.
Tech 15-Penn State 13

Opportunity rapped exactly four times at the door of the Golden Tornado, and at each rap there was a swarm of eager Yellow Jackets ready to make good use of her visit. This alertness on the part of the Jackets gave them a 15 to 13 victory over Penn State, on the memorable date, Oct. 18th.

After two heart-rending defeats at the hands of Penn State the Tornado and its followers had begun to believe that the old Nittany Lion was invulnerable. Doped to lose by a margin of two touchdowns or more the Jackets swarmed out on Grant Field and for more than three quarters played the Northern invaders off their feet. By an exhibition of the hardest and most accurate tackling ever seen at Tech Flats, the Southerners broke the confidence of the Penn State team and brought about a series of fumbles that proved extremely costly to the Staters.

Let the chanters of that much heard refrain "If that game had lasted five minutes longer," say what they please. But let us say that that game did not last five minutes longer and that today Tech stands as one of the few Southern teams who have won the distinction of defeating an Eastern team with as high a rating as Penn State.

Tech won, but not until Penn State had staged one of the bravest and most thrilling come-backs in the history of football. With all but nine minutes of the last quarter gone, 15 points in the rear and all hope apparently lost, the State team started a terrific drive, that resulted in two touchdowns before it had finished.

Not as an alibi, but in justice to the Tech team, it must be said that only one first string man, Monk Nabelle, was in the game at the time. Merkle was out, Godwin and Carpenter were out, Glenn was out as also were Captain Gardner and Usry. Before these pillars of strength had been removed State had rammed the Tech forwards in vain.

The whole Tech line was superb. Captain George played one of the greatest games of his life, Nabelle and Merkle starred at ends. These two gentlemen proved to be a very uncomfortable combination to the Penn State interference. Johnny Glenn, Walt Godwin, Joe Usry, and "Six" Carpenter filled their positions with no mean ability as was shown by the successful way in which State's charges through the line were met.

Again Wycoff played his usual brand of brilliant defensive work. Doug was here, Doug was there, in fact he was everywhere, making brilliant tackles, breaking up passes, and playing a defensive game that can be paralleled by only the best in the country.

On the offensive for Tech, Ivan Williams was the stellar light. For the first time he outdid Wycoff in advancing the ball. He also kicked the two field goals that aided so materially in Tech's victory.

The star for the Lions proved to be a combination of Lafferty, Michaleiske and Gier. It was these gentlemen who started the seventh inning rally that almost had a tragic ending for Tech.

In paying the well earned tribute to the various stars of the game, let us not overlook Coaches Alexander, Wood and Hansen. For it was through the untiring efforts of these three men that Tech was able to accomplish so glorious a feat as she did last Saturday.—Technique.
Ga. Tech-Penn State Action Picture

The Forward Pass That Cost Penn State Seven Points—Note the Gold and White Stockings Buzzing 'Round
Crimson Tide Rolls Back Tornado

By Don Howe

With a capacity crowd looking on, and filled with confidence at the victory of the week before over Penn-State, the Golden Tornado was slowed down into a gentle breeze by Coach Wade's aggregation of pigskin carriers on Grant Field, October 25, by a score of 14-0.

This defeat was the first Tech has suffered since 1919, when Auburn triumphed over the Jackets. It all goes to show that such things will happen, and that none of us are able to win every time.

How did they do it? They did it by hard, fast football; by superb blocking; by a perfectly coached, smoothly coordinated machine. Those two speed demons, Mack Brown and Dave Rosenfeld were simply too fleet for the Techsters. Time after time they went around the ends for long gains; time after time they broke through the line and were stopped only by the secondary defense. That whole Alabama team was primed for this game, and though doped to lose, they landed in Atlanta with the sole idea of returning to Tuscaloosa with the Jackets' gore. They played the best game they have played this season, or any other season for a long time.

Not as an alibi, but as a simple statement of facts, let it be known that Tech's team was not up to standard. It was a vastly different team that overthrew Penn State than that which faced Alabama. Though they fought well, the drive, the aggressiveness that characterized them the week before was not evidenced. It is a fact that a team cannot stay up at its peak all the time, and Alabama caught us when we were off our stride.

Alabama made some of her best gains through aerial work. Both their touchdowns were made through the use of passes, directly and indirectly. Tech also completed some pretty passes and twice worked the ball down the field to within the five-yard line, but were unable to put over the final drive for a touchdown, a five-yard penalty causing the disaster in the last of the first march.

Hard as it is to relate, for the first time in five years we were decisively beaten by a Southern team on home territory, and we have no alibi. Alabama played a hard, clean game and deserved every point they got. The refereeing was especially good, decisions being made fairly and impartially. We take off our hats to you, Alabama.

Sam E. Levy, Ga. Tech '17

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414 Stewart Ave.,
Ithaca, N. Y.
Oct. 4, 1924.

Mr. R. Jack Thiesen,
Care Georgia Tech Alumnus,
Georgia Tech,
Atlanta, Georgia.

Dear Thiesen:

For some days past I have been unable to rid my mind of a snappy old air which I heard an orchestra play recently.

Also, for some years past since I left Tech I have been trying to formulate in my mind the real reason for my lack of enthusiasm in college sports as I find them elsewhere—have feared it meant that I am getting old.

Tonight I have put the two together and here is the result. "Try it over on your piano" as the ad puts it. The air would make a good Tech song, if you could get somebody to put some real words to it.

I enclose also a check toward my subscription to the Alumnus, though I am not sure that it is for the correct amount. A paper I stop my work to read.

With best wishes to greater Tech,
Sincerely,

J. Hall Skeen.

"As the Echoes Ramble On"

Air—"Oh! Susanna"

I have tread Cornell's fair campus,
   With its famed Cayuga blue,
I have sat in the Bowl at Yale,
   And I've watched the Harvard crew.
I've dropped in down at Princeton
   Where they groom their famous men,
I have seen the games at Pittsburg
   And the Relays great at Penn.

Chorus.

But for that grand old Spirit
   That thrills right up the spine,
I come back home to Georgia Tech
   Below the Dixon Line.

Chorus.

I have seen big teams in action,
   The pride of East and West,
Seen the Army get the Navy's Goat,
   And Center at her best.
I have been the rounds right well now,
   Heard their songs and lore of old—
I have honored the Blue and the Crimson
   But I love the White and Gold.

Chorus Again

For—"If I had a son Sir,
   I'll tell you what he'd do,
He would yell like Hell in Georgia
   Like his daddy used to do."

Oct. 4, 1924

J. Hall Skeen.

Good "ole" Skeen, B.S. in E.E., 1919, now an instructor at Cornell. Make his spirit contagious. The Glee Club has adopted his song—some of you would do well to adopt his patriotism.
Georgia Tech Club of New York

New York City, October 3rd, 1924.
Mr. R. Jack Thiesen, Secretary, National Alumni Association, Georgia School of Technology, Atlanta, Georgia.

Dear Mr. Thiesen:

The Georgia Tech Club of New York had a very enthusiastic dinner meeting, Friday, September 26th, at the Traffic Club of the Waldorf-Astoria, where the dining room was decorated with many Tech banners and pennants.

At this meeting officers for the coming year were elected as follows: Jonathan Lucas, Class of 1916, President; Davenport Bryan, Class of 1910, Vice-President; F. J. Johnson, Class of 1924, Secretary and Treasurer; G. M. Hill and H. B. Evans with the officers were elected as Governors. It was proposed to adopt an amendment to the By-laws making the office of Secretary and Treasurer two separate offices, and to increase the board of Governors to the officers and six active members, instead of the officers and two active members. This amendment will be voted on at the next meeting which will be held about the middle of November.

One of the features of this meeting was the welcome extended to the 1924 graduates, seven of whom were present. After the Club extended its official welcome to the new members, Pinkney Daves, Alf Carroll, and Frank Johnson, (all 1924 graduates) gave short talks on the activities at school. The older Alumni were quite pleased to hear the up-to-date news from their Alma Mater.

The meeting then turned into an open discussion to find out what this club could do to help the school through Alumni Club activities. Dean Hill said that he has seen newspaper articles referring to Bobby Jones of Harvard. We think that Bobby Jones is more of a Georgia Tech man than Harvard, and would like to have that fact recognized in such articles if it meets with his consent. I was instructed to ask you to find out from Bobby if he would be willing to have his "write-ups" specify that he is Bobby Jones of Georgia Tech. If he will consent the New York Club will use its influence to have this correction made. Please advise if you can get his consent, and we will take it up with the leading sport writers of this section.

A resolution introduced by Dean Hill, was passed asking the Athletic Authorities at Tech to have the "Golden Tornado" play in New York in 1926. We are working strong for this game.

At this time the meeting was held up a few minutes to give a "Great Big Drum Yell".

Mr. Lucas expressed the desire of the club to be very active in alumni affairs and activities. We want you to call on this club to assist in any alumni work and we will gladly co-operate to the fullest extent.

At the end of the meeting the secretary was instructed to send a night letter to Coach Alex and the team expressing our best wishes for the opening game and a successful season.

I am enclosing a list of the men whose mail was returned by the post office, if you know the correct addresses of any of these, please inform me. In a few days I shall complete my corrected list of men in this vicinity, and I shall send you a copy. Any time you hear of a Tech man, student or alumnus, coming to New York, please give him my address and phone number, and give me his address so we can go after him and help him co-operate with the national association. I know such work will be helpful to you and to me.

With the kindest personal regards and best wishes for a successful year in Alumni activities, I am

Very sincerely yours,

Frank Johnson,
Secretary and Treasurer.
Room 305 No. 5 Beekman St.,
Phone Cortlandt 6572.
Tech Man Prince of Globe Trotters

By George M. Sparks

Refusing promotion from drill sergeant to a commission on General Walter A. Harris' brigade staff, Merian C. Cooper, of Jacksonville, Fla., preferred to enter Georgia Tech in 1917. So thoroughly did he apply himself while here he later won every honor offered in fields of daring aviation exploits, and upon the publication of his latest book, "The Sea Gypsy," is acclaimed by the New York writers the Prince of Globe Trotters, his travels and exploits rivaling Sinbad the Sailor.

His latest book, published by Putnam and Company, is the picturesque account of the voyaging of this young adventurer through the Orient and South Seas with a motley crew of Malays, Lascars and Hindus picked up along the way. Among the strange sights encountered during his recent travels, as outlined in "The Sea Gypsy," was the "Island of Ten Thousand Murderers," the Adamans islands used by Great Britain as an Indian Penal Colony.

As a Mexican Border war correspondent the writer had followed the exploits of Merian C. Cooper with considerable interest and much "live copy" to the press of the country. I remember searching him out the day he was offered the high rank by General Harris.

"No—I am going to Georgia Tech," said he, "for my ground work in aviation. I do hate to leave Murphey, Jake, Sid, and all the rest to fight it out in the infantry, but I believe the air above gives me a bigger field of operation in my efforts to curb the influence of German Imperialism."

And so it did. Serving with gallantry in the service of Uncle Sam in the World War until captured by the Germans in an effort to save the life of his Ohio pilot, he later became a member of the Kosciusko Squadron, Poland's air defense against the Bolsheviks in Russia.

Cooper became the ace of the squadron and kept the Bolsheviks in constant terror by his sweeping raids and breadgiving service to surrounded Warsaw. His low flying and destructive firing caused the Bolsheviks to place a big price on his head, dead or alive.

In one of these swooping raids his engine went bad and he was forced to descend in their midst. They recognized him at once as Cooper, the dreadful.

Even on the Mexican Border at old Camp Cotton he gave little attention to such minor matters as laundry, and at Georgia Tech such matters were mere trifles of the day and night. This carelessness at last was his virtue, for on the morning of his capture he had borrowed a shirt from a friend with the name of the friend very neatly sewed in the neckband of the shirt.

By this means Cooper was able to keep his identity secret, and after months of imprisonment managed his escape. In his Jacksonville home is a little scrap of cloth, a torn piece of underwear, which upon close scrutiny one can read something about being safe, and signed by Cooper, his mother's maiden name being used as his signature. The scrap of cloth was sent his father by a woman prisoner, whom the Bolsheviks were transporting to Norway. She had been asked by Cooper to have Americans there mail to his father in Jacksonville.

Also in his father's home may be seen a mammoth petition of gratitude signed by 50,000 citizens of Poland for his services in bringing them bread in their dire distress.

Cooper had attended Annapolis for four years, when within a few weeks of graduation he had rumpused out. He declared himself then, he would some
day make his government proud of his service. Many a night I have seen him crouch over a dimly lighted cot in the lonely border country and scribble telegrams, the length of which depended on his friend’s pocketbook, the messages begging officials in the Navy Department at Washington for a chance to again smell the salty air in the garb of any sort of swabby deckman.

Strict Navy regulations forever barred his reinstatement in the navy, but his friends knew then that of all the men who were destined for everlasting adventure, Cooper would lead the list. When soldiers were cross, sulky or even daring to utter feelings against those in authority Cooper would always begin singing “Don’t Bite The Hand That’s Feeding You.”

In his own life, he has done for several governments the very content of the tune he liked to whistle morning, noon and night.

Before his adventurous trip to the Adamans he joined the nomadic Bakhtiari in exploring the hitherto unknown Kaarda Mountain range. He said that the six weeks spent on this trip exceeded in vividness any of the lurid days amid the Bolsheviks.

There were 250,000 people and several hundred animals in this emigration, which is an annual affair, though Cooper and his two companions were the first white people to ever take part in it. Even when torrential rains fell or blinding snows attacked them, these savage nomads were as unprotected from the weather as their animals. At times the dust was so stifling they not only had to breathe but also to drink through their handkerchiefs.

Jack Thiesen, secretary of the Georgia Tech Alumni Association, need have no worry about Merian C. Cooper qualifying in the most active of his loyalty alumni, for at all times he possesses all the manly phases of those illustrious ones who have made the North Avenue institution a place of first rank among the best.

After each adventure, Merian C. Cooper returns to New York, where he re-lives his adventures and sets them down for the public to enjoy in newspaper, magazine and book form. He has promised his friends a visit to his old haunts here, if he can ever find time between the next adventure and the book.

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Tech Men Dispose of Large Textile Mill Holdings

Mr. D. C. Collier, B.S. in T.E. 1911, has resigned as Treas. and Gen. Mgr. and Mr. J. C. Collier as Chairman of the Board of Directors of the Carter-Collier Co. (formerly Collier Mills, Inc.), with plants at Barnesville and Macon, Ga.—having sold their stock holdings to the Wm. Carter Co. of Boston, Mass.

Mr. J. C. Carter has recently been nominated on the Democratic ticket as Senator from the sixth district of Georgia, comprising Bibb, Lamar, Pike, and Monroe counties.

Mr. D. C. Collier sailed on November 1st for England and the Continent and will be away for about three months.

The Colliers have not made known their plans for the near future; suffice it to say that the family is too active to stay out of harness very long and it’s our guess that there will be more new mills in Georgia soon.
Mr. Matthew S. Rice

The many alumni of Georgia Tech and other friends of Matthew S. Rice will regret to learn of his death on the morning of October 5th at Augusta, Ga.

There was no more popular young man in Augusta than Matt Rice and his death will bring the deepest of sorrow to his wide circle of friends in Augusta and throughout this entire section of the country.

Matthew Stanislaus Rice was born in Augusta November 5, 1898, the son of Mr. and Mrs. P. H. Rice. His early education was received at Sacred Heart College; he completed the high school course there in 1915. Entering Spring Hill College, Mobile, he graduated in 1919 with a Bachelor of Arts degree. During the war he was sent to the officers training camp at Fort Sheridan, Illinois. The year following his graduation Mr. Rice attended Georgia Tech, following that up with graduate work at the Catholic University of America, Washington, D. C., where he was awarded the Master of Arts degree in 1921.

In addition to his scholastic record, Mr. Rice was renowned as an athlete. He was always keenly interested in athletics not only for the sake of the sport itself but as a means for physical and moral training. Since returning to Augusta he devoted every moment of his spare time to the interests of the Shamrocks, an athletic organization of boys of high school age which he founded himself.

A real man passes his torch to others—his life will endure through time.

New Orleans Tech Club Report

New Orleans, La.,
September 9, 1924.

R. Jack Thiesen, Secretary,
The Georgia Tech Alumni Assn.,
Georgia School of Technology,
Atlanta, Georgia.

Dear Mr. Thiesen:

On Saturday, September 6th, we had most probably the best meeting ever held by the New Orleans Georgia Tech Club. There were some twenty-five members present and we were also honored by the presence of the Sporting Editors of the New Orleans papers as well as a former Techite, Mr. Frank Pruitt.

Mr. Keith of the New Orleans Times-Picayune made a very fine talk and assured the club that it would receive more news as to the athletic program of the school in the future.

Mr. Pruitt made a very fine talk as to the prospects of the 1924 team as well as other activities around the school.

Mr. Porter of the Porter Clothing Company agreed to give information to anybody calling during the football season as to the scores of the various games.

Another step forward was that of obtaining boxes for the Tech Club at the various Tulane football games this season and also in having the club meet twice monthly during the season.

Before closing this meeting officers were elected for the coming six months. Alfred Porter was elected President, Russel Micheal was elected Vice-President, C. S. Newton, Secretary, and J. A. Goldman as Treasurer.

Yours truly,

C. S. Newton,
Band Great Credit to School

By Don Howe

Tech's band this year looks better than ever before. Many old men are back, and new men from the freshman class brings its strength up to around sixty-five pieces.

During the game against Florida the Ramblers flashed some new stuff. Dressed in their new uniforms, and led by Frank Roman, they paraded all over Grant Field, turning loose some snappy music, and drilling with a smoothness and precision that was a delight to behold.

Between halves of the Penn State the band formed a perfect "T" on the field and cut loose with the most spirited songs that that famous battlefield has witnessed in many a day. All during the football season the musicians have delivered the goods, and have shown the world that a Tech band supports its team.

A nice bit of the "retort courteous" was shown by these loyal musicians when the team left early Thursday morning, Oct. 30th to meet Notre Dame at South Bend, Ind., on November first.

The alumni and students were fostering a movement to send the band to South Bend and the faculty was petitioned accordingly; the wise ones, however, ruled that too many freshmen were in the band and that it would be hard for them to make up the loss of work that would result from such a long journey. Undaunted and ever loyal, though, the gold and white parad- ers were up with the frost and "ram- bled" their warriors on with good-bye, good luck, and victory!

To Frank Roman, who has for so many years led our bands, goes credit for turning out such a splendid bunch of musicians. He has worked faithfully and patiently with the Gold and White Band that as a college activity has become second to none in the country.

Auto Research Data

It cost the average automobile owner in the United States last year $10.78 for automobile tax, according to Prof. F. C. Snow, of the Highway Department of Georgia Tech, while in Georgia the fee averaged $14.12 for passenger cars and $16.86 for trucks. The department also found that in 1923 the states collected $188,613,074 for automobile licenses with 81 per cent, or $153,226,636, of the amount being spent for roads under the direction and supervision of state highway departments.

Considerable research work by students in the department has been made and it was found that thirty-five states and the District of Columbia collect gasoline taxes. In these states there are 1,954,886 miles of rural highways or 66 1/2 per cent of the rural highways of the country.

Fifteen states levy a tax of two cents a gallon; eight states, one cent a gal- lon; nine states, three cents a gallon; two states, two and one-half cents a gallon; and one state, four cents a gal- lon.

The Georgia Tech Highway Department further gives the information that 58 per cent of the gas tax of the United States is used for highways under the direction of state highway departments. Taking the eight states that have a one-cent tax per gallon, the average amount of gas used per car per year is 450 gallons, giving an income of $4.50 per car. Assuming 6,000 miles per year as the average mileage of a car it figures out that the tax per car per mile in these states is 0.075 cents— or it would cost a car owner in gasoline toll 71/2 cents per 100 miles.
President Brittain has written only briefly of the institution. We wish he might have taken more space to have told us more in detail of the work that is now being done at Tech. We sometimes hear of institutions and of men who have a great past or are certain to have a great future, and that is all well and good; but here we have an institution whose present is so wonderful that we can scarcely think of the past or of the future.

The one crying need of Tech is money. It is the same story which we must admit is true of all our educational work in Georgia. The state can invest a dollar in Tech now which will be reaped in manifold blessings in the years to come. The fine thing about a dollar invested in Tech and in these other worthy institutions is the fact that the blessing not only comes back to us but reaches out to bless every citizen in our nation.

Let us be grateful for the wise and able men who worked for the establishing of the institution and whose devotion and sacrifice have brought it to the present high day. May we not be inspired by their service to take up the torch and to carry on in this work that shall never end.

Resolutions Adopted By the Georgia Tech Club of New York September 26, 1924

BE IT RESOLVED: That The Georgia Tech Club of New York earnestly invite and request the Athletic Authorities of the Georgia School of Technology, to schedule a Georgia Tech Football game to be played in New York in the 1926 football season, and

BE IT FURTHER RESOLVED: That this club offers to assist in every practicable way with the New York arrangements, publicity, and entertainment.

(EDITOR’S NOTE: We play Penn State in New York City during the fall of 1925—so look out resolutions, we’re coming; primed for bacon.)
Birmingham, Ala.,
Oct. 28, 1924.

Captain George Gardner,
Georgia Tech Football Team,
Atlanta, Ga.

Dear George:

Congratulations to you and your gang for the sportsmanlike manner in which you have accepted last Saturday’s defeat. Not a whimper nor an alibi have we heard and our hats come off to the “guts” which can take such a licking and come back heads up.

You fellows on the field were the ones who really had your noses rubbed but those of us looking on were of course anxious to see you win and took a sort of soaking on the bean ourselves. Be that as it may, that game is history now. You learned some valuable lessons and if we know anything about your mettle, you’ll profit from them.

Where you have thousands watching you with an intense interest, it is inevitable that some few thin skins and lilly livers will howl but what the hell do you care for them. The point is that no Tech team has ever quit and none ever will—take it for what it is worth that everybody is watching you closer than ever and all have the utmost confidence that you’ll come through.

So up and at ’em. Tech’s record stands for itself and nothing we could say would add to or detract from it. All we want you to know, you and the gang and all the coaches, is that the handful of us over here are still with you one hundred per cent. If you don’t believe it—try us out.

Sincerely,
TECH ALUMNI ASSOCIATION OF BIRMINGHAM.

By C. E. Porter, Jr., President.

New Basketball Court Nearing Completion

The new Tech basketball court is near completion, after a delay of several weeks. Work has been suspended on the court in order to enable the workmen to concentrate their efforts on the completion of the concrete stands.

The new court, when finished, will be a great improvement over the old one. The players will now be able to practice even in the most disagreeable weather.

In past years there has been very little interest shown in basketball at Tech. There were no seats for the spectators. But the new building will have a seating capacity of approximately twenty-five hundred people, and it is predicted that interest in basketball will be greatly augmented during the coming season.
**Ellington-Brower**

Interest centers in the marriage of Miss Buford Ellington and Mr. Hugh Brower which was solemnized Wednesday evening at 8 o’clock at the home of the bride’s parents, Mr. and Mrs. Carl Henry Ellington on Elbert street, October 24.

**Fraser-Carpenter**

A marriage of widest social prominence and great interest to host of friends was that of Miss Mildred Davis Fraser to Mr. Guy Carpenter, Jr., of New York, which was solemnized October 7, at All Saints Episcopal Church, Rev. W. W. Memminger officiating at the impressive ceremony.

**Lockhart-Davis**

**Lockhart-Watkins**

An announcement of unusual interest to a wide circle of friends is that of the wedding of Miss Helen Lockhart, charming daughter of Mr. and Mrs. Malcolm Lockhart, of Decatur, to Thomas Harlan Watkins, also of Decatur, and Miss Elizabeth Lockhart, her elder sister, to Victor Manget Davis, solemnized in the Decatur Presbyterian Church on October 15.

**Merritt-Becknell**

A marriage of interest to their many friends and relatives throughout Georgia, Florida and South Carolina, was that of Miss Louise Branan Merritt and Mr. LaFayette Montgomery Becknell, which was solemnized Tuesday afternoon at Park Street Methodist Church on October 7.

**Myers-Parker**

Mrs. Sara E. Myers announces the marriage of her daughter, Viola Hardy, Mrs. Edward C. Belmont, to Mr. J. Lawrence Parker, M.E. ’15, August 30th, 1924, at Brooklyn, N. Y.

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**Tech’s Enrollment Leads Southern Schools**

Georgia Tech probably again leads the schools and colleges of the southeast in early fall enrollment of 2,380 students, according to a statement by administrative officers, who asserted that more than 300 students were refused admittance in one single department because of insufficient maintenance funds. The senior class of 1924 numbers 288, it was said.

Regular collegiate enrollment, 1,867; evening school of commerce, 305; evening school of applied science, 185; rehabilitation students, 348; listed as extra summer school students, 125. The government is discontinuing aid to students disabled during the World War, it was stated.

The following is the enrollment figure in the various departments: Department of electrical engineering, 595; school of commerce, 374; co-op courses, 283; civil engineering, 163; chemical engineering, 159; mechanical engineering, 132; architecture, 105; general science, 39, and graduate students, 4.
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.

ARKANSAS
Arkansas City—F. B. Hight.
Bauxite—J. F. Gibbons.
Benton—G. A. Smith, Benton Ice and Coal Co.

Brinkley—W. M. Bruce.
Clarksdale—Guy Woolford.
Clarksdale—L. W. Copeland.
Draughton—H. E. McIntyre.

Eldorado—H. T. Knapp.

Helena—Robt. B. Van Dyke, Lewis Mill and Supply Co.


Hot Springs—I. B. Boyer, 716 Oak St.

Huttig—Francis W. Scott.
Malvern—J. R. Longmont.
Nashville—S. T. Dowty.

Pine Bluff—R. S. Cherry; J. F. McInture.
Russelville—O. P. Stark.

Texarkana—A. A. Tennyson, Box 8.

CALIFORNIA

Calif. Tel. Co.
Manlo Park—P. G. Wales.
Ocean Park—A. D. Partridge, Lulsa Hotel.

Riverside—A. S. Mead, 660 Savent St.

San Pedro—Hunter McConnell.
Santa Monica—Albert Stanley, 994 6th St.
Santa Paula—H. R. Wilson.
Whittier—L. G. Evans, 417 Penn Ave.

COLORADO
Boulder—Chas. A. Vandyke, Western Light and Power Co.


CONNECTICUT
Danbury—C. D. Downing, Downing and Bethel Gas and Elec. L. Co.

Hartford—S. F. Jeter, Hartford Steam Boiler Insr. Ins.; A. C. Struther, 51 Ashford St.

New Haven—W. N. Stakeley, Yale University, Box 1255; T. K. Cureton, Yale Univ.

New Milford—G. W. Hayes, Broadview.

Stamford—T. F. Adkin, 98 Grove St.

DELAWARE
Wilmington—C. C. Kiplinger, 1803 Washington St.

DISTRICT OF COLUMBIA

FLORIDA
Alachua—John K. Langford.
Apapka—H. V. Starbird.
Arcadia—C. A. Byrd, Sou. Utilities Co.
Ashville—D. A. Finlayson.
Blounton—J. H. Grayson.
Benifay—S. I. Dean.
Brentwood—R. F. Harkey.

Clermont—E. R. Kreider.
Cocoa—H. B. Daniel; L. E. Fay.
Courtenay—R. L. Roche.
Davenport—Duncan Mills; M. V. Moore.
Dunnellon—D. B. Kilber, Jr.
Deland—J. L. Inglis, Inglis Const. Co.

Eustis—W. H. Arnold; J. D. Wingfield.
Fernandina—A. Stull.
Fort Lauderdale—C. W. Humphries.
Fort Myers—H. J. Wood, Box 483.
Gainesville—G. E. Grady; F. A. Wrench.

Hastings—R. H. Mattox.
Havana—L. R. Munroe.
(Florida to be concluded in Dec. Issue.)

Addresses Recently Verified

G. P. Bartlett, B. S. in Ch. E., '28, is chemist with Coca-Cola Co., 21st and Grand Ave., Kansas City, Mo.

Robert G. Dorpre, class of '11, is now located in Canton, Ga.


R. B. Ingle, class '11, is Mgr. Fulton Fuel and Light Co., Fulton, N. Y.


L. B. Mann, B. S. C. E., '07, is a member of the firm Gilson, Mann and Cox, Patent Attys., 52 W. Jackson Blvd., Chicago, Ill.

Robt. A. Morgan, B. S. T. E., '09, is agent for Maginnis Cotton Mills, New Orleans, La., 2414 Peters Ave.

F. W. Shropshire, class '14, is Asst. to the Vice-President Gulf Refining Co. of La., P. O. Drawer 107, Shreveport, La.

J. Hall Skeen, B. S. E. E., '19, is an instructor at Cornell Univ., Ithaca, N. Y., 414 Stewart Ave. (Read his song in this issue!)

I. W. Summerlin, B. S. M. E., '16, is mechanical engineer for Atwood and Nash, Inc., University Heights, Chapel Hill, N. C.

Ben F. Summerson, B. S. M. E., '10, Real Estate, Farm Lands and Selected Cotton Seed Planter and Distributor.


J. G. Wilbourne, class '22, is residing at the Highland Plaza Apts., Birmingham, Ala.

Prof. R. S. King submits this interesting list of Georgia Tech men who are connected with the Waish & Weidner Boiler Co., of Chattanooga, Tenn.;

S. H. Daniels, class '96, Vice-President and Sales Mgr., Chattanooga.

Percy Jackson, class '99, Branch Office Mgr. Shanghai, China.

B. W. Holtsclaw, class '01, Asst. Chief Engr., Chattanooga, Tenn.

M. T. Glenn, class '05, Engineer, Return Tubular Boiler Dept.

L. R. Jackson, class '06, Branch Office Mgr., New Orleans, La.

J. T. Roberts, class '20, Branch Office Mgr., Memphis, Tenn.

J. W. Mason, Jr., class '20, Branch Office Mgr., Houston, Tex.

Geo. S. Brown, class '20, Sales Engineer, Chattanooga, Tenn.

J. R. Kruse, class '21, Sales Engineer, Chattanooga, Tenn.

Henry Reeves, class '24, Engineering Dept., Chattanooga, Tenn.

S. R. Parry, Jas. A. Peacock, Co-operative Students, Engineering Dept.

Atlanta Alumni Recently canvassed


E. F. Huff, B. S. M. E., '07, is connected with the Carter Electric Co., 21 Haynes St.

A. D. Kennedy, B. S. E. E., '03, President Davidson-Kennedy Co., Manufacturers Oil Mill Machinery, 872 N. Ashby, now erecting new plant corner Jefferson and Hornday Sts. to be ready first of the year.

Robt. B. Logan, class '08, is associated with Edwards and Sayward, Archts., 511, No. 101 Marietta Bldg.

Wm. S. McLeod, class '04, is Examiner with Commercial Union Co., 601 Hurt Bldg.

J. A. McMurtry, B. S. E. E., '19, Sales Engr., Crane and Co.

P. H. Nichols, B. S. E. E., '19, Sales Representative Johns-Manville Co., P. O. Box 885.

P. O. Strobing, Jr., resides at 18 Avery Drive.

H. A. L. Strobing, B. S. M. E., '13, is living at 9 Buena Vista Ave.


H. C. Walraven, class '21, is Mgr. Alemite Co., 125 Ivy St.

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.

Incorrect Addresses

Out-of-Town Alumni: C. L. Fife
Clifford Attredge Felder Furlow
W. P. Barrow Samuel Freeman
M. V. Blais J. L. Joplin
W. O. Bassett Wm. Keenan
Clarence Burton Hayne Lamar
R. L. Evans R. Lowndes
J. C. Greer

J. W. McCullough W. F. Moses
W. D. Peteat Irving Reilly
R. G. Sanders T. M. Sewell
E. D. Sledge

J. E. Smith J. J. Twitty
L. G. Watters P. T. Wentworth
Richard Wilhelmi Eugene Winkle
Allan G. Woodruff
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For Further Information, Address

THE REGISTRAR

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