Coach Alexander Honored -- Research
Evening School -- Dining Hall -- A Great Banquet
Dunlap and Jones Lead Tornado -- Conference Rulings -- Schedules
A Reduction in Long Distance Telephone Rates

An Advertisement of the American Telephone and Telegraph Company

On January 1, 1930, there is effective a reduction in various long distance telephone rates in the Bell System which on the present volume of calls means a saving of more than $5,000,000 a year to the telephone-using public in the United States. This is the fourth reduction in long distance rates within a little more than three years. On October 1, 1926, they were reduced by $3,000,000. On December 1, 1927, a reduction of $1,500,000 went into effect. On February 1, 1929, there was a reduction of $5,000,000.

These reductions are in accordance with the aim of the Bell System to continue to furnish the best possible telephone service at the least cost to the public. Earnings must, of course, be sufficient to permit the best possible telephone service at all times and to provide a reasonable payment to stockholders with an adequate margin to insure financial safety. Earnings in excess of these requirements will either be spent for the enlargement and improvement of the service, or the rates for the service will be reduced. This is fundamental in the policy of the management.
COACH ALEX—He rates nationally—most of us have known that for some time. Despite a lean year every now and then, his average ranks among the highest and despite this average, his modesty and leadership is unexcelled—and he's a Georgia Tech graduate withal.

An inside on The Man of the Flats may be had by reading his banquet speech which appears further on in this issue. On December 30th, the National Football Coaches' Association elected Coach Wm. A. Alexander, of Georgia Tech, as President of their body for the coming year, and the members of that association know men. Rather than express our personal views on the importance of this election, note what Ed Danforth has to say on it in the December 31st edition of the Atlanta Constitution:

"W. A. Alexander, of Georgia Tech, has been elected President of the National Football Coaches' Association. "Coach can extend no higher honor than that; it is a tribute from the profession that is at once a professional estimate of The Man's ability."

"Many a time and oft, Atlanta newspapermen have been asked by folks here at home 'How does Coach Alexander rank nationally; is he well known, etc., etc.? They patiently have tried to convey the idea that Coach Alexander was one of the leading coaches in America and that he stood very high in the councils of the profession."

"Fortunately Georgia Tech officials knew it. And they stuck to Coach Alex through the lean years and the fat years."

"Home town fans being closely in contact with Coach Alex lack perspective in estimating his ability and his standing. His election should clear all that up. The Man deserves all the honors that have come his way."

The alumni of Tech appreciate the foregoing and other tributes to Coach Alex and we hasten to add that some of the alumni have always been among the officials who "knew it" and that the alumni practically as a whole have always been behind him and have known him not only as a coach but as a friend and a fellow alumnus of Georgia Tech.

THANKS, Your secretary and the officers of the National Alumni Association desire to thank the many of you for your very fine Christmas and New Year cards and other kind wishes for the coming year.

The thoughts addressed to you in the December Alumnus were most sincere and it is our hope that the real feeling we attempted to express was conveyed to all.

We also wish to thank you for whatever degree of success the National Alumni Association has attained. It is hard to sing out anyone for direct words of praise; yet, we would be remiss in our duty if we did not acknowledge with appreciation the genuine assistance given to us by those of you who continue to be active, year in and year out, and the unsoldish cooperation of the officers and other members of the executive board of the Alumni Association, together with our student friends and office staff, all of whom aided us so materially throughout the year.

Thanks again to all of you and good luck.

THE RIGHT It is encouraging to report that little or no grumbling has been heard as the result of a poor year, as a whole, in athletics. The attitude of the alumni in this respect is one upon which they are to be congratulated.

With the exception of the executives and officers, the Athletic Association invited only those to the football banquet who had actually worked with the teams or had entertained them, as it was decided to leave the matter of attendance up to those who wished to attend regardless, in accordance with an announcement in the December Alumnus.

The banquet was an enjoyable though serious occasion which augurs well for the coming year.
Research and Future Developments

An alumni movement for the stimulation of research work at Georgia Tech is assuming definite proportions at this time for one of the major departments, at least. Announcements of the plans will be carried at a little later date.

Quite an important project is also planned in the near future along the lines of campus activities which, when revealed, will be a source of pride to the students, alumni and faculty alike.

At this time the Auburn Engineering Research Station of the Alabama Polytechnic Institute at Auburn, Alabama, our close neighbor, is conducting twelve major projects of investigation. The work at Auburn has already taken on national and international importance.

A new method of chemical analysis sensitive enough to detect the presence of one part of a compound in ten billion parts of water, discovered by Dr. Fred Alliston, head professor of physics at the Alabama Polytechnic Institute, Auburn, was explained by him Saturday, November 30, to members of the American Physical Society in session November 29-30 at the University of Chicago.

Details of the research and an explanation of the process will be given when a complete report has been published by Dr. Alliston.

Two full-time and eight part-time investigators are conducting engineering research at Auburn on problems important to Southern industry.

The December issue of the Auburn Alumnus contained the following article on the great work of the Research Station:

“A comprehensive program of research work designed to be of maximum service to the people of Alabama—and of the South—has been started by the Engineering Research Station of the Alabama Polytechnic Institute. Upon recommendation of Pres. Bradford Knapp the program was approved by the Board of Trustees in February, 1929. Since that time 12 research projects have been started, according to Dean John J. Wilmore of the school of engineering who is acting director of the station.

“A liberal appropriation was made by President Knapp. At present two full-time and eight part-time workers are employed in research. The work is being done in connection with teaching and other lines of engineering work at the Alabama Polytechnic Institute. Presidnet Knapp is a strong advocate and supporter of all lines of research work pertaining to the welfare and advancement of Alabama. Provision was made by him for four research fellowships with a view to training students for research and directing their attention to its opportunities.

“Project number one on the research list of the new engineering experiment station is a study of the corrosion of metals due to electrolytic action induced by moving water. This is being done by Prof. C. R. Hixon and O. F. Quinelle. The purpose is to investigate the relation of electrolytic currents to the corrosion of metals. This study is of much concern to the hydro-electric industry of Alabama.

“Prof. Arthur St. C. Dunstan, head of the department of electrical engineering, is investigating the pitting effect of moving water on metals. He is endeavoring to find a fundamental basis and theory to explain some of the peculiar pitting effects which have been observed.

“Stresses in a reinforced concrete building are being investigated by Prof. John A. C. Callan and Prof. C. M. Suffah of the department of civil engineering. They are checking the relation between the calculated stresses and the actual stresses and deflections in the Ross Chemical Laboratory while it is under construction.

“In cooperation with the United States Bureau of Standards, the Federal Phosphate Company of Anniston, and the University of Alabama, the possible manufacture of xylose, a form of sugar, from cotton seed hulls, peanut hulls, and other waste products is being studied at Anniston. The aim is to point the way to the economic and profitable production of one or more products from these low grade materials. Max Bradshaw and Fred Acree are employed by the Alabama Polytechnic Institute and are devoting their entire time to this work at Anniston. Considerable progress has been made.

“Dr. C. A. Basore, Auburn chemist, is making a study of the utilization of the residue after the extraction of xylose from cotton seed hulls, the purpose being to convert waste materials into useful products. Substantial progress has been made in this work.

“In connection with this Dr. Basore is studying the possible utilization of residue for feed and for fertilizer. The value of the residue depends not alone upon analysis but digestibility as a food and value as a fertilizer.

“A study of the economic factors of the manufacture of xylose from agricultural waste is being made by Prof. J. E. Com of the department of economics. This study includes a survey of costs of manufacture, cost of raw materials and other economic factors concerned.

“As soon as the new Ross Chemical Laboratory and the Textile Engineering buildings are finished the research work in textile chemistry will be started.”

It is interesting to note that Robert and Company of Atlanta are the consulting engineers on Auburn's Textile Engineering Building. This great firm of Georgia Tech graduates, principally, has won and merits its international reputation and we are proud to know that it is taking part in the progressive work at Auburn.
COACH ALEXANDER ELECTED PRESIDENT
NATIONAL FOOTBALL COACHES’ ASSOCIATION

At the annual convention of the National Association of Football Coaches in New York City on December 30th, William A. Alexander, Georgia Tech, was elected president of the association, succeeding Hugo Bezdek, Penn State. J. F. (Chick) Mehan, New York University, was made vice president, and Clarence W. Spears, University of Minnesota, second vice president. W. H. Cowell, University of New Hampshire, is the new secretary and treasurer.

Coaches named to sit as an advisory committee with the football rules committee are: Robert C. Zappke, Illinois; Glenn Warner, Stanford, and J. B. Sutherland, Pittsburgh.

The report of the rules committee of the Coaches’ Association marshalled an array of facts and statistics against the extra point after touchdown. Searching of records for the 1928 season showed the committee that an average of seven plays was necessary to score each point registered during the season and it seemed out of proportion to have one play yield one point after touchdown.

The two other changes proposed classifying penalties so that if two fouls were called on the same play, one major and the other minor, instead of the ball reverting to its original position the difference between the two penalties be assessed. The other proposal would have given a team in possession of the ball within five yards of the sidelines the option of putting it in play 15 yards from the sideline with the loss of a down.

It was decided by a decisive vote, however, to leave the rules unchanged.

Coach Dan McGugin, of Vanderbilt, declared that criticism of college athletics found in the recent Carnegie report will be answered by the steadily increasing high standard of scholarship among athletes. The Vanderbilt coach suggested that coaches should be responsible only to administrative heads of colleges and universities.

A. G. Sampson, Tufts, reporting for the committee on ethics, urged that football coaches refrain from distrust of opponents. Some feel it necessary, he said, to approach officials before a game to urge that they look for violations of rules the opposing team may commit.

ALUMNI PROMINENTLY MENTIONED

Thomas Fuller, E.E., 1906, has been appointed new district manager in charge of the Southeast territory, with headquarters in Atlanta.

E. George Butler, Tech 1907, President of the Savannah Chamber of Commerce, has been awarded the Lucas Trophy for the most outstanding service to his city during the year 1929.

As president of the Savannah Chamber of Commerce, Mr. Butler put on a successful drive for a greater Savannah through a greater Chamber of Commerce.

THE EVENING SCHOOL OF COMMERCE

In Atlanta's environment—with the big business of the country as a workshop and a field for business observation—the Georgia School of Technology has one of the most thoroughly established Evening Schools in the country.

Employing the same teaching staff as the School of Commerce of the regular day school on the college campus, the Georgia Tech Evening School of Commerce is in every way giving practical instruction to hundreds of young men and women who during the day are employed in Atlanta's fast moving business world.

The Evening School of Commerce has three chief aims: to give to the young men and women of Georgia, who thru unfortunate circumstances are unable to attend college during the day, a high standard of collegiate training in commerce; to inculcate into the mind of the student the principles of citizenship and a high code of moral and business ethics; and to turn back to the state the type of citizen who is straight thinking in all lines and who has developed effective leadership.

With a faculty selected from the larger colleges and universities of the country and from the business executives of Atlanta, the Georgia Tech Evening School of Commerce is especially well equipped to train men and women for the following:

- Accounting
- Advertising
- Banking
- Business Economics
- Business Ethics
- Business English
- Business Publicity
- Business Law
- Business Psychology
- Commercial Art
- Credits and Collections
- Typewriting
- Public Speaking

The School is located at 1005 Forsyth Street, N. W., just across the street from the Rhodes-Haverty Building, in the heart of the downtown district. It is within a few minutes walk of the leading business houses and the main street car lines.

The second and third floors in this building have been conveniently arranged so as to provide comfortable class rooms and also adequate rest rooms for both men and women.

The entrance requirements of the Evening School of Commerce are made broad and flexible, only fundamental subjects being definitely required. These requirements are made upon the supposition that high schools are local institutions in which the courses should be adapted to the needs of the individual localities, and that college entrance requirements should be such as to take the output of the schools, rather than to determine the nature of the work offered in them.

All candidates for admission must be at least sixteen
years of age and must furnish satisfactory evidence of being qualified to carry the desired work.

Students who contemplate working toward a degree must, in addition to the above requirements, present 15 units of entrance credits from an approved secondary school. However, students are accepted without high school credits.

Registration for the second quarter began at 12 o'clock Thursday, January second, and will continue throughout the day and evening to and including Friday, January 17. Students who enroll after that date will not be granted college credits for the course, without the special consent of the Director of the School.

Students are required to register at the office and fill out proper blanks before attending classes.

A complete bulletin of Georgia Tech's Evening School of Commerce may be obtained by applying to the Director, 106½ Forsyth St., N. W., Atlanta, Ga.

DINING HALL IS FINEST IN SOUTH

"Georgia Tech now boasts of the finest college dining hall in the South and one of the best in the country," thus reads an article in "The School Board Journal," a national publication of improvements and activities of colleges, which is recognized as the foremost authority on that subject. This journal devoted five pages of that issue to photographs and a description of the Tech Dining Hall.

The Dining Hall serves between 1500 and 1800 students daily from the middle of September to the first of June. An outstanding feature in the selection of service is that only experienced cooks and waitresses who have been examined personally by a doctor are employed. The Tech Dining Hall is the only place in the city of Atlanta which requires its cooks and waitresses, in fact, all help, to be examined and inspected by a doctor. Everything possible in the preparation of a meal is done by machinery with which every modern and up to the minute dining hall is equipped.

The kitchen of the Tech Dining Hall has been planned to meet definite needs. Natural lighting has been provided from three sides. A mechanical ventilating system, with an electric suction fan on the roof, insures a constant circulation of fresh air. This is facilitated by the absence of solid partitions dividing the kitchen into service divisions.

The preparation and storage departments are grouped around ranges, roasting ovens, steamers, vegetable and soup cookers, and salad pantry. A complete bake shop, with electric ovens and gas candy stoves is provided. Two separate glass and dish-washing departments have been arranged to eliminate the congestion and to care for the separate sections of the dining hall. Special corridors and entrances facilitate easy passage between the kitchen and the counter corridors and have a tendency to prevent confusion. Gas is used for fuel in the ranges, electricity for the bake ovens, and steam is used wherever possible.

A model ice plant, with complete refrigeration for seven ice boxes and the cafeteria counters has been located in one corner of the storeroom. The plant provides for an additional capacity of one ton of ice each day, and includes a brine-operated ice cream plant. The refrigerators, with the exception of the salad refrigerator, are of the built-in type, and are of large capacity due to the southern climatic conditions. A special built-in refrigerator has been installed for garbage, which reduces obnoxious odors to a minimum.

The tentative floor plans were outlined by Mr. J. W. Jeffries, steward of the dining hall, with the assistance of the Wright Hotel Company at Atlanta, and the final plans were prepared by Mr. Jeffries and a representative of the John Van Rang Company at Atlanta. The design of the dining hall was carried out by the members of the architectural department, under the direction of Mr. Harold Bush-Brown, the architect, assisted by Mr. J. H. Gailly, associate architect.

The cost of the building alone was approximately $147,000, with an additional appropriation of $25,000 for equipment.

Alumni and other friends of the institution have taken no small part in this need project, as the property on which the building stands was purchased by the Greater Tech Expansion Fund and payments of over $30,000.00 have been made by the Greater Tech Fund for Kitchen and Dining Hall equipment.

RADIO LEAGUE HAS TECH BRANCH

The American Radio Relay League is a national amateur organization which consists of amateur broadcasting and receiving stations which relay and send to a person any messages from almost any point in the United States and Europe. This service is free of charge and is of great value in establishing quick communication with far distant points. For instance, whereas a letter would take thirty-five days to reach the Philippine Islands from Atlanta, a radiogram would reach there inside of twenty-four hours.

The Georgia Tech Radio Club is a branch of this organization. It was founded at Tech about 1920 and has been in active operation ever since that time. The Club maintains a 75-watt amateur transmitting station operating under the call letter W4YA. This station has picked up messages from South America, Africa, Europe, Australia, New Zealand and other distant points. There are at present twelve licensed members of the Club with about fifteen others preparing themselves for the necessary tests that must be taken in order to secure a license.

The members and their amateur station call letters are as follows: B. B. Buchanan, President, W4PAY; C. H. Marsh, Vice-President, W9ASA; J. H. Eubanks, Secretary, W4SI; B. Akerman, Chief Operator, W4AEE; C. M. Gray, W4SE; F. M. Greene, W4EM; D. G. Hubbard, W4AD.
Volume VIII.

SOUTHERN CONFERENCE APPROVES LEGITIMATE SCHOLARSHIPS

Ed Hamm Eligible—Meets and Dates

The annual meeting of the Southern Conference, held in Baton Rouge, La., Dec. 14, brought forth several very important results. Dr. N. W. Daugherty, of Tennessee, was named president of the organization to succeed Dean S. V. Sanford of the University of Georgia. Dean Sanford withdrew his name as a possible candidate for the office, having been president since the organization of the S. I. C. in 1920.

Another important result was the stand of the Conference on so-called scholarships for athletes. The resolution approved by the Conference and introduced by Coach Byrd of the University of Maryland, is as follows:

"Be it resolved that the Conference as a whole as and as individuals members has no objection to athletes receiving legitimate aid from the institution in which they are enrolled but reiterates its absolute opposition to any form of subsidizing, especially created for athletes as a class.

"Be it further resolved that the Conference hereafter append as addenda to Section D, Rule, Article 13, of the by-laws, of the Southern Conference, which shall be an interpretation of the rule, the following:

"First: An athlete may hold any scholarship that is formally established by the institution in which he is a student and which is controlled and awarded by regularly controlled authorities.

"Second: An athlete may hold any scholarship that is open to students who are not athletes.

"Third: An athlete may benefit from any loan fund that is regularly administered by university authorities or by a formal committee recognized and sanctioned by the university authorities.

"Fourth: An athlete may hold any position for which he received a reasonable emolument provided such position is recognized by the university authorities and be not reserved solely for athletes.

"Fifth: Any athlete may receive pay direct from the Athletic Association of his institution for work that he does for that association provided he is paid at a reasonable rate not to exceed 50 cents per hour for each hour of service actually rendered.

"Sixth: No athlete, whose way through the university is being paid directly by an alumnus, or who is the beneficiary of any loan fund not known to or recognized and approved by the university, or who holds any position not open to other students shall be eligible to represent any school in the Southern Conference."

Ed Hamm was declared to be eligible for another year's competition on Tech's track team, having been forced out of school on account of an operation last spring. The Conference basketball tournament will again be held in Atlanta beginning February 28, 1930, and the annual track

MARRIAGES AND ENGAGEMENTS

Bates-Hawes

Mr. and Mrs. T. Towar Bates, of New York City, announce the engagement of their daughter, Bertha, to Mr. Albert Lee Hawes, of Elberton, Georgia, the date of the marriage to be announced later. Mr. Hawes graduated from Tech in 1922, taking the degree of B.S. in Arch.

Horton-Spier

The marriage of Miss Marcia Ford Horton, of Decatur, to Mr. William Paul Spier, of Atlanta, took place at the First Presbyterian Church on December 12, 1924. Mr. Spier is a graduate of Georgia Tech, with the degree of B.S. in E.E., 1920.

Porter-Brooks

Of cordial interest to many friends was the marriage of Miss Sophia Porter and Mr. Robert Welch Brooks, which was solemnized on November 16, 1929, at the home of the bride's parents in Thomson, Georgia. Rev. H. O. Fowler performed the ceremony. Mr. Brooks was a student at Georgia Tech in 1922.

Taylor-Merry

The marriage of Miss Marian Leckhart Taylor, of Cambridge, Mass., to Mr. Edwin Ray Merry, of Atlanta, was solemnized in the Epworth Methodist Episcopal Church of Cambridge, on November 30, 1929. Mr. Merry graduated from Tech with the degree of B.S. in Arch., 1920.

Chester-Murray

A wedding of great interest to their many friends was that of Miss Bee Chester and Mr. Edward Alexander Murray, which was solemnized at St. Luke's Episcopal Church in Atlanta on December 14, 1929, the ceremony being performed by Rev. High Moor. Mr. Murray was a student at Georgia Tech in 1924.

and field meet will take place in Birmingham, beginning on May 16th.

The cross-country meet, held in Chapel Hill in 1929, will again be held at the University of North Carolina. The golf tournament will take place at Birmingham, sponsored by the Shades Valley Golf Club. The University of Virginia was selected as the site for the annual boxing tourney and March 1 was chosen as the date. Wrestling championship matches will take place at the Virginia Military Institute just before March. Tulane University will be host for the annual tennis tournament on May 11.

In addition to the election of Dr. Daugherty as president, A. W. Hobbs, of North Carolina, was re-elected vice president, and Dr. W. D. Funkhouser was re-elected secretary and treasurer.

The Conference, in closing its tenth annual session, was the guest of the Louisiana State University at luncheon. Chapel Hill, N. C., was selected as the 1930 meeting place.
DUNLAP AND JONES ELECTED TO LEAD 1930 TORNADO
COACH ALEX MAKES GREAT TALK

The 1930 Golden Tornado will be led by Earl Dunlap as captain and Tom Jones as alternate captain. They were elected at the annual football banquet held at the Atlanta Athletic Club on December 19, 1929.

The election was a signal for a genuine ovation at one of the most inspiring and sincere Tech banquets in the history of the school. Dunlap and Jones are two of the best players in the Conference, as well as two of the best liked men on the Jacket squad.

Chip Robert acted as toastmaster, and the banquet became an opportunity for nearly every man present to pledge himself anew for the glory and honor of the White and Gold.

The talk made by Coach Alexander was especially inspiring and courageous, bringing the guests swarming about him at the conclusion of the banquet.

"Work, study, keep your body clean, cultivate true friendships, keep the right sort of company and apply yourself to all your tasks," he said. These in addition to his frank discussion of the season made his address a distinct feature. He read it in order that there might be no misunderstanding and in order that he might not forget any of his points.

"There has been much said about our team which lost six out of nine games," he said. "Our defeat have been explained by the papers and our friends. I do not think we have attempted to explain them.

"I want to go into a few things which influenced us this season. I want to tell what was wrong and why.

"It is true that our reserves were weaker and fewer than they have been in some time; it is true that there were no men good enough to replace Pund, Durant, Wadley, Lumpkin, Drennon and others, and yet that did not make the difference between the success of last season and the losses of this.

"There was too much patting of our backs after our return from California last year; there was too much sweet music and too many stories of how good we were. That made us forget how tough our opponents were going to be. It caused us to underestimate them.

"I believe that the faculty should drop men who are deficient in their studies. I would have no respect for one who did not. Yet there are some few faculty members who do not believe in intercollegiate athletics. I do not believe that they should, for that reason, exact their pound of flesh.

"Some of our men did not study. A football man cannot ask favors. Until he comes to consider it as much of a disgrace to be dropped from the team because of failure at studies as to be dropped for poor tackling we cannot get anywhere.

"Some of our men reported in September in poor condition. The substitutes didn't seem to realize how important it was to report in condition. They seemed to think that because they were on the field with Stumpy and Misell the way was clear.

"Injuries handicapped us. Mike Chambers was able to get the starting lineup on the field each Saturday but we thought too much about injuries that at the end of the year it was hard to get the men off the rubbing table.

"I want to go into a few things which influenced us this season. I want to tell what was wrong and why.

"It is true that our reserves were weaker and fewer than..."
"Many people thought the officiating was poor. That is a matter of opinion. It is just hard luck when the decisions go against you. I must accept responsibility for the officiating. I selected them and passed on each official.

"The coaching staff, all of us, made some mistakes. I think we fell victims of the sweet music of those who told us how good we were. We failed to make practice a diversion for the men instead of work.

"All of us underestimated some of our opponents.

"As for the team, there was a lack of team work on offense and defense; there was a lack of team work in thought and spirit.

"There can never be an easy team unless the men are buddies on the field and off; there can never be team work unless the men refuse to be influenced by outside activities; if they let school politics interfere, if they regard practice as drudgery, instead of pleasure, if they feel sorry for themselves.

"I think we should feel glad that the team fought. It was never routed.

"I want to urge this for the men that are coming back; I want them to study and pass their work.

"Pick the right friends in Atlanta.

"Exercise and keep in condition.

"Cultivate real friendship.

"Commence to worry right now about our first game next year, the one with South Carolina.

"Get ready for the work. Be in condition so practice won't seem like work."

Toastmaster Robert Read expressions of regret from Lowry Arnold, "Big Bob" Jones, and Major John S. Cohen, all of whom were unable to be present. Harrel Rusk, retiring captain of the team, introduced Earl Dunlap and Tom Jones, both of whom received an ovation. Dr. M. L. Brittain, president of Georgia Tech, expressed his admiration of the team, as did Red Barron, Jacket star of a few years ago, and who also urged the players to study and keep in condition.

Short talks of a serious nature were also made by Everett Strupper, Buck Flowers, Al Loeb, Vance Maree, Jim Brooke, Frank Speer, Doug Graydon and others.

**BASKETBALL SCHEDULE**

January 10: South Carolina here.
January 11: Clemson here.
January 18: Georgia here.
January 22: Tennessee in Knoxville.
January 25: Georgia in Athens.
February 1: Vanderbilt here.
February 4: A. A. C. at A. A. C., here.
February 7: Vanderbilt in Nashville.
February 8: Kentucky in Lexington.
February 12: Alabama at Tuscaloosa.
February 15: Clemson in Clemson.
February 17: Auburn in Auburn.
February 19: Auburn here.
February 22: Georgia here.
February 28-March 4: Southern Conference tourney here.
Modern Synchronization of Theory and Practice

To bring industrial practice ever closer to theoretical perfection, engineers today are turning more and more to optical science. Specially-developed optical instruments have brought almost unbelievable precision in the control of the raw materials, processes and finished products of countless industries.

The Hydrogen-Ion Colorimeter illustrated above is only one of the many special instruments built by Bausch & Lomb for industrial engineering. Bausch & Lomb will gladly employ their wide experience to solve your problems by means of special optical instruments.

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CLEVELAND CHARLOTTE, N.C.

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TRACK SCHEDULE

April 5: University of North Carolina at Chapel Hill.
April 11 and 12: Sixth annual Southern relays.
April 19: Clemson at Grant Field.
April 26: Southeastern A. A. U. track and field meet.
May 3: Georgia at Grant Field.
May 10: Auburn at Grant Field.
May 16 and 17: Southern Conference meet at Birmingham.

Tech is to have the biggest track and field season in its history next spring, it was learned recently from an announcement by Coach Hal Barron, track mentor at Georgia Tech.

Featuring the eighth holding of the annual southern relay carnival, the gigantic event sponsored by Tech, the slate offers a close second, in drawing power and in real class, to the Southern A. A. U. track and field meet, scheduled for Grant Field for the first time since 1924.

The Tech carnival, which was stretched to a two-day event last year and which proved a great success under that plan, will be continued this next season. It is expected that some 800 athletes from all over the country will be in Atlanta for this event.

The Southeastern A. A. U. games will attract approximately 150 of the best amateur athletes in this section and should provide a big afternoon for the fans.

Coach Hal Barron has received invitations from the Millrose Athletic Club, in New York, and the Meadowbrook Athletic Club of Philadelphia, to send relay teams to the annual meetings sponsored by them early in February. Barron stated Tuesday afternoon that it was possible that both invitations would be accepted and that he would send a relay team and Captain Ed Hamm to the East if the present program was followed.

Hamm, who underwent an operation at the start of last season and who was forced out of competition on that account, will be in his final year when spring rolls around, and has high hopes for a successful season. Holding the world's championship in the broad jump, he hopes to add to his laurels.

Four dual meets with conference foes of long standing and the conference meet, to be held in Birmingham, fill out the slate planned for the Tech tracksters.

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NEW YEAR'S BENEFIT GAME

(Continued from preceding page)

first downs to five for the Blues, two of the latter's first downs by the aerial route, however, went for touchdowns.

The Blue margin of victory was in its aerial game; they made 134 yards through the air with two get-aways to the losers' 74 with one pass tallying.

The names of all players on both sides would have to be mentioned in order to laud those who starred, in particular; they were all too good to be left out—an actual fact. The colleges they represented should be very proud of them for their stellar work and unselfish services to such a great cause.
BIRTHS

Dr. and Mrs. Michel G. Mali announce the birth of a baby girl, Helen Mary, on December 9, 1929. Dr. Mali graduated from Georgia Tech in 1922, with the degree of B.S. in E.E.

TECH TANKMEN BEGIN HARD WORK

The Georgia Tech swimming team, Southern Conference champions for a number of years, have opened the 1930 season with hard practice at the Athletic Club in Atlanta. Many of the stars of last year's squad have graduated, but the outlook is promising for another successful season.

Captain-elect C. Y. House, Frank Maier, Fleming Cooper, Jack Cabbage, Van Brown, and Bob Pancoast are among the veterans returning with several promising swimmers from last year's freshman squad. Red Hollemann, Southern Conference record holder of last year, is to coach the varsity this year, and is already on the job. Mike Chambers, Georgia Tech trainer, is to train the men. Freshman tryouts will be held shortly, and a number of freshmen are expected to answer the call.

COMPOSITE OF FRESHMAN SEASON

The Georgia Tech freshman football team, under the tutelage of Coach Clay, completed a fairly successful season this year. Their record, while not unblemished, shows the famous Tech fight and they should send up some mighty valuable material for the varsity of next year. The freshman line seems to be very strong, and the backfield material is exceptional.

The Tech fresh opened the season with a win over Red Barron's Monroe Aggies, a tough prep school team. The score was 19-0, and during the game several rats stood out as promising candidates for the Tornado. The work of the line, and the running of the backs showed plenty of preparation for the season.

Tech battled the Auburn freshmen on their own field in The Levellest Village, and came back holding the short end of a 7-0 score. The field was a mass of mud, and the first half was a punting duel. The work of Neblett, Cain, and Harrison was brilliant in the Baby Jacket line, while Cain and Holland bore the brunt in the backfield.

The South Carolina freshmen were the next to battle the Tech fresh, on Grant Field. This game, played on a muddy field, was a scoreless tie, neither team being able to gain against the other's line. The high spot of the game came in the final period, when, with the ball on Tech's four-yard line, four attempts through the line gave South Carolina a total of one yard. Corn, Bennett, and Cain showed promise for Tech, with Correll and Freeman doing the same for the visitors.

A mere week before the engagement of their big brothers, the Tech freshmen and the Georgia Bullpups battled on Grant Field for a mythical championship. The Georgia Rats completely outplayed the Tech yearlings, to the tune of 32-0. The heavy line of the Athenians, coupled with their excellent running attack, was entirely too much for the Techsters. A very cold day, with much fumbling, was on hand, and only a few hundred spectators were present at Grant Field. The running of Ebberhart and Mell for Georgia was brilliant, and the Tech line, seemingly strong for a freshman forward wall, was outclassed all afternoon by the Georgia line. This game concluded the season's efforts for both teams.

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