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A THIS COLUMN is going to be a tribute, pure and simple—a tribute long overdue. If this sort of thing is boring to you, we suggest you get on with the rest of the magazine. But, it is something that we feel must be said.

On the page opposite is a list of the awards won by this magazine in the 1960 National Publications Competition sponsored by the American Alumni Council. The fact that for the second year in a row, this magazine is numbered among the “Top Ten” of this country’s some 1200 alumni magazines is naturally a great source of pride to us.

We would like to again thank the members of the staff (and they’re all on a part-time basis, incidentally) for their beyond-the-call efforts that have made these honors possible.

But this year, we would also like to direct a special note of praise to a group of craftsmen who really make the difference in this magazine being rated with the best or just another alumni magazine. We are referring to those seldom-praised, often-damned people who man the composing room, pressroom, and bindery of the printing company which produces this book.

* * *

THIS ORGANIZATION — Higgins-McArthur Company of Atlanta—is run by a Tech man, Kent Higgins, CE ’25. But, if it were headed by a Georgia man, we would still be doing business with this house. For this is a company which believes in the quality concept of printing.

It is no accident that Higgins-McArthur was the only printing house in America to produce two of the “Top Ten” alumni magazines this year—The Emory Alumnus, which deservedly won the Sibley Award as the best of the alumni magazines, and this magazine. Since we moved to Higgins-McArthur four years ago, the magazine has received a total of 12 awards in competition with the best in the business. Again this is no accident. Prior to that move, The Georgia Tech Alumnus had never scored in the competition.

* * *

THIS ARTICLE on Dodd in this issue is full of some rather astonishing statements. We will be more than disappointed if it doesn’t stir up the local and national press when it hits the sports desks. Most of the quotes in this article are appearing in print for the first time. Maybe, we should have titled the article, “Dodd lets his hair down.”

* * *

YOU MAY NOTE a change or two in this issue, especially in the back of the book. In order to bring you more campus news, we have initiated a section called “The Georgia Tech Journal” which will include “News By Classes,” “Club Notes,” and “Faculty and Administrative News.”

We have also set up a new section in the “Class Notes” called “Faces in the News.” The success of these new ventures depends on you. If you have important news about yourself please send it on to us, with a picture of yourself if possible. This, along with your company’s press releases is the only way we can keep up with your promotions, marriages, etc.

* * *

THE ARTICLE on Dodd in this issue is full of some rather astonishing statements. We will be more than disappointed if it doesn’t stir up the local and national press when it hits the sports desks. Most of the quotes in this article are appearing in print for the first time. Maybe, we should have titled the article, “Dodd lets his hair down.”

* * *

George Griffin is in a quandry. He received a letter from an ANAK member complaining of the poor design of the ANAK tie. The writer suggested a new design and offered $50 to purchase the new cloth. George’s problem is that he can’t decipher the man’s signature. He’s all for the tie change but needs the $50 to buy the material. Will the kind man please send his name to George (in typewriter this time).

Bob Wallace, Jr.

Tech Alumnus
THE GEORGIA TECH NATIONAL ALUMNI ASSOCIATION

is pleased to announce that its official magazine

The GEORGIA TECH Alumnus

has been cited as one of the

Top Ten Alumni Magazines

in the 1959-60 Publications Competition

sponsored by the American Alumni Council

In addition, The Alumnus received the following awards

(1) Special Recognition Award for its March, 1960, issue.

(2) Honorable Mention in the category of Appearance.

(3) Honorable Mention in the category of The Institution.

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2. RAMBLIN'—a long-overdue tribute and a large amount of trivia occupy this space.
5. EDITORIAL—the editor puts out the word about the newest part of homecoming and offers a challenge to Tech's thinking alumni.
6. THE TALL GRAY FOX—Robert Lee Dodd lets down his hair and comes out with some rather startling statements about the game, football.
13. GEORGIA'S ECONOMY—some more hair-letting-down, this time by industrial development man, Dr. Kenneth C. Wagner.
16. SUMMER INTERLUDE—fifty executives return to college to undergo a rigorous program.
20. TWELVE FOR THE BRASS RING—Ed Danforth calls the 1960 SEC race, a wild one.
22. THE GEORGIA TECH JOURNAL—a new section for the magazine containing news of the Institute, the Classes, and the Clubs.
31. ELECTION OF OFFICERS—vote.

Officers of the Georgia Tech National Alumni Association

Joe L. Jennings, '23, Pres.          R. A. Siegel, '36, VP
Morris M. Bryan, '41, VP  Frank Willett, '45, Treas.
W. Roane Beard, '40, Executive Secretary

Staff
Bob Wallace, Jr., '49, Editor
Bill Diehl, Jr., Chief Photographer
Mary Jane Reynolds, Editorial Assistant
Tom Hall, '59, Advertising  Mary Peeks, Class Notes

THE COVER

For the camera buffs, the new picture of Bobby Dodd which graces this issue was made with a Leica M-3 with a 125mm lens. It was taken in Dodd's office with existing light using the new Tri-X film. The picture was unposed and is to us one of the best we have ever seen of Tech's Gray Fox. For more about Bobby Dodd see page 6.

Cover Photo—Bill Diehl, Jr.
IE ALUMNI INSTITUTE: a step in the right direction

It is generally agreed by university and college administrators that one of the major functions of any alumni organization should be the continuing education of the alumni.

In the past, the Georgia Tech National Alumni Association has attempted through special articles in the magazine to carry on a campaign of alumni education. But, there never seemed time enough or interest enough to really organize a strong “continuing education” program for Tech alumni.

This year, the Alumni Association will take its first definite step in this direction by scheduling an Alumni Institute for October 20 and 21 in conjunction with the annual Homecoming Weekend. This Institute will feature two special two-day seminars—“The Engineer in Management” and “New Perspectives for Man and for Science.” These seminars will be run concurrently but entirely independent of each other.

The candid sessions that make up these two seminars will be directed by some of the best faculty members on the Tech campus. The sessions will be conducted in layman’s language and will feature open discussion by alumni registrants and the faculty members.

The special seminar on “The Engineer in Management” will be geared to explore the new concepts in organization, planning, control, motivation, collective bargaining, and creative thinking for the engineer who participates in management. And, it is designed to help alumni understand the new theories in the management field in order that they might recognize, understand, and deal with the fundamentals and growing problems of business survival in the sixties.

But it is the seminar on “New Perspectives for Man and for Science” that should stir your imagination. One of the most unusual and important programs ever staged on the Tech campus, this seminar is designed to develop some of the important ideas and philosophies of this century that have shaken man’s old concepts of society and science. Imaginative subjects with fascinating titles dot this seminar’s program schedule: *A Look at the Years of Determinism, Uncertainty, The Role of the Unconscious in the Creative Arts, Spengler, Toynbee, and the Great Alternatives*, are but a few of the lecture titles.

You may find out more about the Alumni Institute by writing Tom Hall, Associate Secretary of the National Alumni Association, Georgia Tech, Atlanta 13. The cost is low—$15.00 per person. And the classes are limited to only 50 registrants per seminar.

If just the alumni who have complained that the Alumni Association’s major interest seems to be athletics and the other extracurricula activities apply for these seminars, they should be filled up in less than 24 hours. It’s now up to you.

Bob Wallace, Jr.
The man moved down from his perch atop the recently rebuilt wooden tower, leisurely strolled across Rose Bowl Field, eased up to a group of sweating athletes, and started talking. "Look at the tall gray fox," mused an astonished ex-halfback observing the proceedings. "Now what in hell do you reckon brought this on. In my four years here as a player, I never once saw him come off that tower except to go to the showers or to sit and talk with reporters. He always just called out his instructions in the old days. Now look at him. Personalized instruction, yet. Things sure are changing around here." The ex-halfback was right. Things have changed about Robert Lee Dodd. Now beginning his 30th season at Tech and his 16th as head coach, the erect, rapidly-graying Tennessean is face to face with the biggest crisis of his life. And few creatures on this earth short of a wounded bull can rise to meet a crisis with the fierceness of Bobby Dodd. He has been an out-and-out competitor since he first learned to shoot a marble in Galax, Virginia. He has no intention of changing now. This crisis that he now faces is made up of many small crises: His coaching staff has undergone an almost 90% turnover in the past four years. Tech's toughened academic policies have taken their toll during the past year. Disciplinary cases have axed even more of his boys. His recruiting problems have been magnified by the Institute's up-graded entrance requirements. And the rest of the conference gets tougher and tougher. In an exclusive interview with Alumnus Editor Bob Wallace, Dodd candidly discussed the problems brought about by this chain of events. "The coaching losses are now the least of my worries," he said. "In this business, if you are doing a good job, you expect the turnover. We have been extremely lucky in the matter of replacements. Marvin Bass, our new line coach, has been called the best young line coach in the South by no less of an authority than Earl Blaik. Charlie Tate is an enthusiastic and extremely competent teacher and the boys love him. Jack Griffin has developed into an excellent administrator and has taken over many of the administrative duties handled by Ray Graves before he departed to Florida. As a Tech alumnus, he understands the philosophy of education here and this will help. Dick Inman is coming fast as are several of the other younger coaches. The only problem in this area is that it takes a spell before everyone learns our particular way of doing things. I'm satisfied with this phase . . . Concerning the tougher Tech curricula, he waxed philosophically, "We knew it was coming. In fact, you'll recall that I endorsed it. The first couple of quarters were rough on us because we didn't move fast enough in convincing the boys that they would have to put out a little more to survive. At the beginning of the spring quarter, we installed a compulsory study hall for all freshmen and for upperclassmen with point averages under 2.0. It is well supervised and meets four nights every week during the school year. The boys are surprisingly enthusiastic about it. We also instituted a no-cut policy among grant-in-aid boys at the same time. If they miss study hall or cut classes over the three allotted ones, they work out with Buck Andel (continued)
Robert Lee Dodd talks about facing the biggest challenge of his long, happy career.
THE TALL GRAY FOX — continued

Dodd with Tibbetts and Gann: "If these two hold up, we could have a fairly good season. They hold the key."

Dodd with Tate: "Charlie's a good one. He's one of the best teachers we've ever had on the Tech staff."

at 6:00 A.M. We haven't had much trouble with cuts since. As a result of these moves we had a better overall average this past spring quarter than during any year that I can remember. I think we might have this thing licked now."

Dodd readily picks up the blame for the loss of athletes to disciplinary problems. "We had become a little too lax with the boys, and some of them mistook our soft-control program for carte blanche. By the time we realized what was going to happen and tightened up, it had already happened. Since then, we have spent a lot of time with all of the grant-in-aid boys pointing out that any slip on their part will reflect on Georgia Tech and the team as well as on themselves. It's hard to explain to boys just a year or two out of high school that publicity is a two-way street. And if you're in the limelight for your good efforts, you'll also be in it when you turn out a bad effort. We have urged our natural leaders to take a more active interest in student affairs. We don't want the time to come ever when the athlete is considered an animal at Georgia Tech. I think we got through to them. I don't look for much trouble on this score for the coming year."

If Dodd doesn't look for trouble in the first three phases of his crisis, he expects it in the final phase. Tech's toughening entrance requirements have cut his 1960 freshman grant-in-aid squad down to less than 30 boys. "Until a lot more of the State's high schools start bringing up their standards, we are going to be in trouble. We used to get a few good boys out of Mississippi (the best high school recruiting ground in the South) but Old Miss' and LSU's recent good years have pared that market down for Tech. We didn't get a boy from that state this year. Alabama and Auburn have done the same thing to the State of Alabama. This means we have to go into territory that is relatively new to us to get the type of boy we must have at Tech. With no national grant-in-aid program, we have no protection in these new areas. We sign a boy and Annapolis, West Point, Duke, Princeton or some other top school eventually gets him. Last winter we signed nine boys in West Virginia, all good students and a couple of them great prospects. What happened? West Virginia had a coaching change, and now we'll be lucky to get five of them this month. Oh, what I wouldn't give for a national grant-in-aid program."

There is one more thing that enters into Dodd's excitement about coaching this year: his enthusiasm for a 5'8" 160-lb. quarterback named Stan Gann. A product of Northside High of Atlanta, Dodd calls the sophomore, "the best quarterback prospect at Tech in many a year. It we only had some depth at halfback and at end, this could be a good year," he adds. "Everywhere else we are in good shape. But injuries such as we had last year could destroy this team. This is the smallest squad we have had since the end of World War II. But then, that's what we are paid for—coaching. And, this year, we will have to do lots of that."
Dodd with Gann: "This boy has received more publicity and more attention than any back we have ever had. And, he's yet to play in a varsity game. But, he has the knack of throwing right, and if he comes through, we'll have a wide-open game this year for a change."

Dodd with Gann again: "I hope that all of this attention hasn't spoiled Stanley's attitude. But, I doubt it. When he makes a mistake he feels it just as we do."

DODD ON WININGDER: "LOOK AT THAT #25 REACT. HE'S A SOPHOMORE BUT BEFORE LONG HE'LL BE A GOOD ONE."
A man's philosophy of life is marked by his words

On pro football —
"I can hardly see how the college coaches can make such a big thing about the pros invading their campuses searching for talent. Look at the way we all treat the high schools. "
"The pros have always been considerate about the way they handle us. But we must reach an agreement with them about signing boys who will play in bowl games. The way I read the rule, a boy becomes a pro the day he signs his contract. This puts us (the colleges) in the position of playing pro football players in a college game. I think it can be ironed out without too much trouble.
"When the pro leagues come to Atlanta we'll feel the competition at the gate. I don't think it will bother us for the first four or five years, but if the colleges don't go back to two-platoons (limit the squads to 40 dressed men like the pros if you must), we will all be fighting a losing battle at the gate."

On the recruiting problem —
"We approached the best back in Georgia's high schools this year. He said he was interested in Tech. We told him that he must take plane geometry to get in school. He signed up for the course at his high school and then dropped it after three days. He then told us that he could go to college without that 'stuff' and he was a good high school student."

On today's football players —
"Modern football is far superior to what we used to play, and today's players are better all-around athletes."

On relaxation —
"If you like to play golf, don't coach. I used to shoot in the low 70's but I gave it up. People see you on the golf course when your team is in a losing season and they come up and say you ought to be spending your time coaching. That's why I took up fishing."

On injuries —
"Improved protective equipment reduces serious injuries to the vanishing point. But the game may put more players on the hospital list for shorter terms than ever.
"For one game scrimmage last spring we had 22 unable to dress out. At the same time, Ray Graves at Florida had 29 walking wounded one weekend. We had most of ours able to play in the final spring game, but there were times when our squad was very thin.
"Reasons for the trend are the game is faster and collisions are harder, and the blocking is sharper as coaches more and more stress speed and downfield blocking.
"Perhaps the reason that blocking is proving to be more crippling are the spread sets and slot sets that give players new angles to block from the side. More often than otherwise a player never sees what is coming until he is dumped. Blockers pop in from the side after the player has committed himself.
"Basic physical weaknesses also add to the growing number of ankle and knee hurts. Boys rarely walk any distance these days. They are under the wheel of an automobile whenever any distance must be traveled . . . distance meaning a block and a half. Their legs are not stringy and tough—do not react smoothly when hit hard."
Fishing is the only real relaxation for me. You can really get away from it all on a lake or river. And few people watch you.

"The season's still a month away and this phone has already started ringing off the hook. This is the part I dread about fall."

These are my top boys now. Jack Griffin (R) is handling a lot of the administrative work that Graves worked on for years. He has a real knack for it. Marvin (Bass) is a real find. We think he is a top-flight man.

Another indication of the coming of fall: The Tall Gray Fox's desk is piled high.
Tech photographer Harley D. Ferguson’s national award-winning photograph of the Lenox Square Rich’s store front: large shopping centers like Lenox Square are another indication of the changing economy of the State and the efforts of the large population centers to serve as a central location for shopping for entire sections of the state.

by Kenneth C. Wagner, Head
The Industrial Development Branch
Georgia Tech Engineering Experiment Station

SOME LITTLE KNOWN FACTS ABOUT GEORGIA’S ECONOMY

On the following pages you will find the full answers to these questions on the economy of this State

1. How long has manufacturing been Georgia’s Number 1 employer?

2. How many years has it been since manufacturing employment in Georgia hit its highest peak, then dropped off again?

3. How far behind the United States has Georgia’s population growth rate fallen in recent years?

4. Why has Georgia’s population increase been so low relative to the over-all growth of the United States?

5. Why is it misleading to say that Georgia is gaining on the United States in per capita income?
The head of Tech’s highly-successful Industrial Development Research Group puts down the true facts on today’s Georgia

The drastic changes which have almost up-ended Georgia’s economy are reflected in the questions on the preceding page. In the 15 years since World War II, a major realignment of key segments of the State’s economic structure has taken place.

The economic revolution sweeping through Georgia has moved so swiftly it has been almost impossible even for researchers to keep pace with the startling changes which have been taking place. It is easy to see some of the effects—the thousands of farm workers displaced each year, the high school graduates who must leave home to seek employment elsewhere, the more than 100 counties which have been steadily losing population. But most Georgians little realize how vast and important the changes have been.

Misconceptions

Important misconceptions therefore exist—misconceptions which are likely to distract us from critical problems and thereby seriously impair the State’s economic progress. Many vitally important facts are available, however. The answers to the questions listed at the beginning of this article, for example, reveal some of the key changes which have taken place and point up some of our most urgent problems.

1. Manufacturing employment passed agriculture as Georgia’s No. 1 employer in 1949—more than 10 years ago! (See Figure 1) Latest figures show that in 1959 more than 27.5% of the State’s workers drew their pay in manufacturing plants. A fraction more than one third that figure—a little over 9%—now earn their living principally in farming. This percentage for 1959 is based on the Georgia Department of Labor study referred to in Figure 1. The 1957 figure given in that study has been projected to 1959 by assuming a drop of 9,500 per year during 1958 and 1959. The actual loss averaged 9,600 per year from 1940 to 1950 and, using Department of Labor figures, has far exceeded that number each year from 1951 on. Both trade and government now employ more Georgians than does agriculture.

Farm Employment

As recently as 1918, 55% of Georgia’s workers were employed in agriculture. Farm employment actually reached its peak in 1910, and has been dropping ever since. In the last 20 years an estimated quarter of a million farm jobs have disappeared as farms have mechanized and increased their efficiency. Where only one out of every eight persons employed is now needed to feed our population, in 1910 three farmers were required to feed every two workers not on the farm.

Farming remains important, but it cannot provide the jobs needed for the thousands still leaving agriculture each year, plus the thousands of young people who must have jobs as they complete high school and college. New jobs—especially the more highly skilled and higher paid jobs needed to keep our young people in Georgia—must be created in manufacturing and the jobs which come with manufacturing.

Manufacturing Drop

2. Unfortunately, manufacturing employment in Georgia hit its peak in 1956 and in 1959 just regained that level. We have not been gaining enough new plants to offset the employment losses suffered, particularly in textiles and transportation equipment.

Our rural counties, in particular, will continue to lose population if we do not intensify our efforts to develop the State’s vast industrial potentials. Many counties have already suffered such heavy losses that only a Herculean effort could revitalize their economies.

3. Georgia’s population growth rate has dropped below the U. S. average as a result of our failure to create enough new jobs. We now rank 16th in total population after ranking 13th just 15 years ago. While we gained an estimated 342,000 people between the 1950 Census and 1958, Florida has added over 1,744,000! The U. S. as a whole has gained an average of 14.9 per cent during the eight-year period, while Georgia added just 9.9 per cent and Florida gained 62.9!'

Income Lag

4. In terms of the dollar gap that still exists between per capita income in Georgia and in the U. S., we have not made a measurable gain for many years. It is true that we have moved up percentagewise. But we remain almost precisely the same number of (constant 1958) dollars behind the U. S. now as we were 30 years ago. In effect, we must—as the Red Queen told Alice in Wonderland—run twice as fast just to stand still.

One reason for Georgia’s low per capita income has been the fact that we have lagged so far behind the rest of the U. S. in moving from a predominantly agricultural to an industrial economy. Using Census figures, agricultural employment in Georgia remains precisely double the percentage of the U. S. as a whole. While in Georgia, 55% of

ABOUT THE AUTHOR

Dr. Kenneth C. Wagner has been director of the Industrial Development Branch of the Engineering Experiment Station since it was founded some four years ago. He has an A.B. degree from Augustana College, a M.A. from Wisconsin and his Ph.D. (economics) degree from the University of North Carolina.
the work force remained employed in agriculture as late as 1918, in the U. S. the number had dropped to 55% as early as 1865 or 1866. In effect, our employment shifts are bringing us more up to date and in better balance with the rest of the country.

To put it another way, declining agricultural employment is an indicator of the growing economic maturity of any relatively undeveloped area. Income goes up as manufacturing employment rises and as agricultural employment drops.

To replace the lost farm jobs, Georgia needs to expand and diversify its manufacturing. In particular, we need to develop high wage, high value added industries—electronics, metalworking, chemicals, plastics and others.

**Importance of Manufacturing**

Perhaps worth noting is the fact that the statistics cited above, as surprising as they may seem to some, tell only a small part of the story. Manufacturing's total importance to the economy of the State can be measured in a number of ways. The value of manufacturing output is one such measure. In 1956, this amounted to $4,209,000,000. The value of farm output during the same year was just $751,000,000—less than one-fifth of the manufacturing total.

To look at it another way, most of the State's more than 1,000,000 jobs can be considered to be dependent—either directly or indirectly—on manufacturing. In addition to the more than one out of four who are now engaged directly in manufacturing, tens of thousands more transport, warehouse, or sell manufacturing products. A sizable percentage of utility employees depend for their jobs on manufacturing plants; thousands more in finance and the services also are dependent on manufacturing.

Most of the State's farm employment similarly is dependent on manufacturing. There would be no reason for raising cotton if it were not for the textile plants and other manufacturing operations which put the cotton to use. Similarly, the numbers of manufacturing employees and the city populations which have grown with manufacturing consume a steadily increasing amount of our farmers' products. Without these growing markets our farmers obviously would have no need to produce the volume of many crops they now raise. Those who supply the fertilizers, insecticides, and farm equipment required to produce the crops also, following this logic, are dependent on manufacturing for a livelihood. The same is true for those who finance the farmer's operations.

In all, probably somewhere between 75 and 85 per cent of the State's 1,123,800 employees are dependent, in one way or another, on manufacturing. When looked at in this way, manufacturing's contribution to the economy of the State assumes overwhelming importance.

**Percentages Distort**

It makes little sense to use such percentages, of course. Pursuing the same logic, virtually 100% of all employment in the U. S. can be considered dependent on mining, since it provides the raw material for everything metal. Similarly, it can be argued that more than half of all those employed in Georgia are dependent on agriculture. However, such percentages can easily be used to distort the seeming importance of a particular segment of the economy. If computed precisely, with exactly the same definitions and assumptions used for each sector, such percentages might provide a useful measure of the comparative importance of various types of employment.

There actually is no point in computing such figures, however, since the direct measures which are readily available—actual employment, actual value of output, and so on—indicate the relative importance of various segments of the economy. Moreover, it is both treacherous and misleading to place much importance on such calculations, particularly where they are used out of context and without proper reference to their relation to the entire economy.

**Danger and Problems**

The greatest danger involved in using such figures is, of course, that they can so easily divert our attention from the significant—and even urgent—problems confronting the State:

Our young people continue to leave Georgia to seek jobs elsewhere.

Thousands of farm workers continue to pour into our cities or leave the State in search of suitable employment. Many thousands more remain under-employed on our farms, keeping per capita income low.

New manufacturing payrolls—the major source of jobs needed to strengthen the State's economy—are not being generated rapidly enough. More branch plants, more "home-grown" industry, more expansion and diversification of established firms are all necessary.

**New Industries Important**

Of special importance if we are to upgrade our work force, increase our income, and generally strengthen Georgia's economy are the "new type" industries, which we have not been getting in sufficient numbers. Electronics, plastics, chemicals, and other high-wage industries have been coming to the Southeast, but we have not gotten our share in Georgia. At least two new-type synthetic fiber plants have located in every state touching Georgia—but none is to be found here. North Carolina and Florida have been securing major electronic and instrument manufacturing plants, but none has yet located in Georgia. In other major categories as well we lag behind.

**Potentials Ahead**

Great progress has been made in recent years. We need only to look at the number of new plants which have come to Georgia to see that. The rapid rise in per capita income—from $310 in 1939 to $1,412 in 1956—is further testimony to our gains. But we have not been gaining rapidly enough.

If we are to keep from losing more of our young people, especially, our attention must be directed not to past gains but to the important work which remains to be done. Even the brief look taken above at a few little known facts concerning Georgia's present economy serves to point up our needs. Georgia's greatest potentials indeed lie ahead.
SUMMER INTERLUDE

Fifty executives return to college for a month

LAST MONTH ON THE CAMPUS, 50 utility executives (they like to call themselves “Ramblin’ Execs from Georgia Tech”) underwent one of the nation’s most rigorous and unusual advanced management training courses.

Designed specifically for executives of privately-owned electric utilities, the four-week course (August 1-August 26) featured outstanding instructors in all the professional-management areas, including organization theory, human relations and economics. The demanding schedule called for lectures, discussions and workshops eight hours a day, five and a half days a week, with some 3,000 pages of assigned reading squeezed into the student executives’ “spare time.”

The executives—selected by their companies to go back to college for this advanced training—were intensively exposed to some of the best minds in the country: teachers like A. J. G. “Judge” Priest from the University of Virginia Law School; Dr. Paul Pigors from Massachusetts Institute of Technology, author of standard texts on indus-

Continued
trial relations; Dr. Harry Guthmann, expert in finance from Northwestern University; Purdue's Dr. C. H. Lawshe, leading industrial psychologist; North Carolina State's outstanding economist, Dr. Ernst Swanson; Tech's internationally-known economist, Dr. Walter Buckingham, and ten other highly-qualified instructors.

An engineering university such as Tech might seem an unusual location for a course in advanced management. But the nature of the utilities industry and the backgrounds of the executives make this course well suited to the technical atmosphere. The utilities are greatly dependent on engineering skill, and about two-thirds of the course enrollment is made up of men originally trained as engineers, who have advanced through supervisory and administrative levels to management positions.

Georgia Tech's School of Industrial Management has a special interest in the scientific and technical industries, and in those men who are faced with the problems of professional management. As the course supervisor, Professor George E. Maddox of Tech's I. M. School, said, "more and more, management and engineering are becoming interrelated fields. The advances in new technologies such as automation and electronic computers are making significant changes in the practice and theory of management."

As a supplement to their classroom work on modern methods, the executives attended one all-day training session at Georgia Tech's Rich Electronic Computer Center. Here they engaged in a "business game" using Tech's 1MB 650 Computer. The machine served as the judge of the men's abilities to make swift and accurate financial decisions.

Although a spirited atmosphere of college life was present, the men were not exactly roughing it. Their dormitory rooms featured extra furniture and maid service, and classes were held in the carpeted, air-conditioned conference rooms of Tech's modern library.

The course was started eight summers ago by Tech's Engineering Extension Division under the sponsorship of the Southeastern Electric Exchange, an association of privately-owned electric utility companies in the South. It has been highly successful every year since then, and has attracted companies from as far west as Texas and Oklahoma, and as far north as Pennsylvania and New York and from several foreign countries. This year's class included utility executives from 15 states, and the District of Columbia.

The subject matter of the course work emphasizes primarily the fundamentals of general management. But a large part of the time is also devoted to public utility law and regulation, public utility accounting and finance, and other areas of practical knowledge. Lectures and reading assignments in the humanities further broaden the executives' training. In this year's course over 3,000 pages of reading assignments kept the members of the class of 1960 busy most of their spare time.
During the special Speed Reading course held each afternoon, a class member ponders a number flashed up on the screen.

TECH PROFESSOR SHERMAN DALLAS OF THE IM SCHOOL GETS ENTHUSIASTIC DURING ONE OF HIS SESSIONS.

At every break, at every meal, and even during the classes, the emphasis is on discussion as these three pictures indicate.

But, there is still time here and there for a man to catch up on his rest by relaxing.
The sellout crowds will be the rule again at Grant Field. But there are still some single tickets left for the Auburn game in Birmingham and the Georgia game in Athens. The cost per ticket is $5.00. The limit is two tickets per alumnus. Order directly from the Georgia Tech Athletic Association, 190 3rd St. if you haven’t ordered for these games. Please make your check out and mail it with your order.

TYPY MAY HAVE BEEN overlooked in the rush, but 1959 was a year of Big Men in the Southeastern Conference. For the second time, four of the bretheren made the Top Ten of the Associated Press. Furthermore, five landed in the middle of bowls. Chances are our lads will not finish in such a display of fireworks this trip.

Mississippi was ranked No. 2 and Louisiana State No. 3 nationally. They were paired for a rematch in the Sugar Bowl, an unprecedented tribute to their class. Georgia, the 9-1-0 champion of the league was ranked No. 5 and appeared in the Orange Bowl. Alabama made No. 10 and hit the new Liberty Bowl at Philadelphia. Our league landed four in the first ten in 1952. The Yellow Jackets barely missed the Top Twenty, but wound up in the Gator Bowl.

On spring form, a nebulous concept, every entry seems to have held its edge or improved. That the faithful will be bumping each other off from week to week looks like a good guess. If our side can land four teams in the AP Ten, it will mean that the SEC has clinched top rank among the big conferences.

On what they showed in their Sugar Bowl outing, Mississippi looks like the team to beat this trip. The Rebels lost talented veterans, but they showed so much depth in mauling LSU that it would be a mistake to overlook them in the first bracket. They have speed and talented operatives like Jake Gibbs, George Blair, Hoss Anderson, Johnny Brewer, Bob Benton and Dick Price. They would be favored over any team on their schedule. The team that does NOT play Ole Miss has percentage going for it.

Auburn and Georgia will field two heavyweights that figure to be up there in the brawling... and neither plays the mighty Rebels.

Auburn fell back with the others by losing three games, but the Plainsmen are deep and muscular and have a passing attack going for them now that could haul them back up front again. Bobby Hunt, the tall quarterback, can run and pass. Ken Rice is All America material at tackle and Ed Dyas is a stand out at fullback.

The Bulldogs return most of the men who won for them last year. Francis Tarkenton is the best quarterback in the league and Fred Brown one of the best runners. Pat Dye is an All-Star lineman and Bobby Walden is the best kicker in the region. The defending champions will have a hard time repeating for the squad lacks depth, but as long as the starters can go they can beat anybody.
Right in the middle of the league are Georgia Tech, Louisiana State and Alabama. The Yellow Jackets showed this spring they could move the ball well on the wings of Stan Gann's passing and the running of people like Billy Williamson and Tommy Winingder. The line is big and mean with two possible All-Stars Captain Gerald Burch and Alt. Captain Taz Anderson at ends. Four real good tackles are Billy Shaw, Ed Nutting, Larry Stallings and Russ Foret. Where Maxie Baughan, everybody's All-American center roamed are two chaps who are ready to go. Willie McGaughey is a fine offensive blocker and Bobby Caldwell is as sharp a defensive center as any Sophomore the Flats has seen in modern times. Chances are the Engineers will not be as tough in the secondary defense, but they may make it up by a fresher attack and the usual good kicking game.

Louisiana State watched Billy Cannon and 20 team chums march out of the gate, but they still have a solid core of bruisers who played on the three team system and saw more than average action under fire. Mickey Mangham is a fine end and Wendell Harris can carry the mail. The schedule is not too tough and they have lots of momentum.

Alabama lost only one game (tied two) and wound up a year ahead of schedule in a bowl at Philadelphia. They lost few of the men who won games for them and have Pat Trammell, Bobby Skelton and Billy Piper to move behind a hard hitting line in which Billy Neighbors is outstanding. The Tide could out-count a lot of them at the finish. The schedule is no problem. After opening with Georgia, the highway is smooth and broad with frequent roadside parks.

Tennessee, Florida and Kentucky could be the spoilers of the season. They were neglected in the spring forecasts but figure to improve on their 1959 record. Tennessee has more depth this trip and will need it playing Auburn, Alabama, Tech, Mississippi and Kentucky. Billy Majors, a man now, heads a cast of 25 letter men. Jim Cartwright, blocking back and Bunny Orr are above average. Cotton Letter is a fine end. The tackles are the weakest spot.

Ray Graves will field his first Florida team and spring practice indicated they will be tough to beat but are not deep in backs. Danny Royal is a good tackle; Bobby Dodd, Jr., is a sophomore quarterback and the others have reputations to make. The schedule is not too formidable.

Kentucky has been beaten by a schedule far too rugged for ordinary men to handle. This time they take on, in succession, Tech, Mississippi and Auburn. Then after a breather with Marshall, they must absorb LSU and Georgia. That sort of jousting is not calculated to lead to dancing in the streets and bowl games. Cal Bird and Charles Sturgeon are good backs at the command of Jerry Eisaman but losses were heavy in the line. As usual they expect to finish strong and beat up Tennessee, a dream not without substance.

Vanderbilt usually finishes in the middle of the conference and promises another stout team. Coach Art Guepe still has Russ Morris at quarter, but lacks veteran halfbacks and ends. However the line is well anchored and can hold its own with any of them. In the last two years the Commodores finished fifth and sixth. The murderous opening sequence: Tennessee, Alabama, Mississippi and Florida may be more than they can digest comfortably.

Mississippi State's squad was shaken up in the spring and Coach Wade Walker feels better about the outlook. Quarterback is a problem, but in the line Tom Goode, Walter Suggs, Dave Kelly and Frank Hutson look good. New boys will get plenty of chances to break in.

Tulane recently has been dropped into last place in the spring handicapping, but the Greenies always manage to beat clubs—supposedly superior. Reserves are scarce but they can give any team fits as long as they last. Quarterback Phil Nugent could make any team in the league. Terrebonne and Mason can step out. Andy Pilney always has an interesting team and this one will be no exception.

Advance ticket sales presage a highly successful season at the gates and a keen interest in the game. At Tech for instance the Tennessee and Alabama games already are sold out and the others are approaching the SRO point.

Be sure the alert coaches will make the most of the "wild card" substitution rule. They can send one man in and withdraw him at will. It makes it possible to "two-platoon" quarterback and center and even another post if needed. The game needs a return to the full two-platoon, unlimited substitution system like the pros. The rules makers seem to be trying to save face by giving a bit of leeway from year to year. It is a question how long the one-ring circus of college football can compete with two-ring show the pros put on. Sooner or later, the college rules body will give in to save their own game from bankruptcy.

YELLOW JACKET-CONFIDENTIAL, Ed Danforth's intimate on the scene report on the Georgia Tech football team goes into its tenth season, more popular with Tech men than ever, the next best thing to a seat on the 50-yard line in the West Stands.

GET YOUR 1960 ORDER IN NOW

Tech men scattered far and wide . . . Djakarta, Indonesia . . . Bangkok, Thailand . . . Salvador, Brazil . . . Air Force bases in England and the Pacific . . . keep up with the Engineers through these colorful letters. The Kentucky letter will be forwarded to you on September 19.

Order your YELLOW JACKET-CONFIDENTIAL now to start with the Kentucky Letter followed by 9 regular game Letters.

Enclosed is my check for $4 (by air mail $5).

Make check payable to Yellow Jacket-Confidential, P.O. Box 1126 Atlanta 1, Georgia
ADMINISTRATIVE CHANGES were the major items of news interest on the campus during the summer months. On July 1, President Harrison announced that the director of the engineering experiment station would report to the dean of faculties rather than to the president. This was done according to the president to "continue the trend toward closer correlation of the research activities of the Station with those of the instructional departments."

To assist in carrying out the increased responsibilities of the dean of faculties, former Tech regents professor (M.E.) Dr. Mario Goglia was lured back to Tech from Notre Dame where he had served as dean of engineering for the past two years. Goglia's new title is associate dean of faculties. His responsibilities include working with all divisions (engineering college, general college, engineering experiment station, and graduate division) who now report to the dean of faculties. Dr. Goglia is already hard at work familiarizing himself with the problems faced by these divisions.

Another change announced on July 1 was the appointment of Joe W. Guthridge as assistant to the president, director of development, and executive secretary of The Tech Foundation, Inc. Guthridge came to Tech two years ago to take over as placement director when Fred W. Ajax was moved up to director of public relations. He was formerly dean of students at Virginia Polytechnic Institute. In his new duties, he will be concerned with planning and promoting a program of financial assistance to Tech.

Appointed placement director to succeed Guthridge was A. P. "Neil" DeRosa, IE '54. DeRosa took over the Tech placement system on July 25. He was a senior industrial engineer with American Sugar Refining Co. in New Orleans for five years after graduation, and joined the Tech staff after a stint as executive director for the industrial development campaign of Pike County, McComb, Miss.

Big Changes in Dean's Office

A BIG TURNOVER in the dean of students office was brought about late in the summer when Associate Dean John J. Pershing accepted the position of dean of men at Emory University. Pershing joined the Tech staff in 1945. He was the first president of the Tech faculty club and was honored by the students in 1954 through the dedication of the Blue Print. In 1958, Pershing was awarded a special plaque by Tech students for his encouragement of student activities. Dean George Griffin commented on losing his righthand man, "We regret to lose him, but we can't stand in the way of a man's promotion." The new position, effective September 1, will mean a full deanship for Pershing.

Stepping into the post as associate dean of students at Tech was James E. Dull, an assistant dean before the promotion. Dull will continue to direct the dormitory coordination and will also be responsible for the orientation of new students, and will be, in effect, the dean of women for Tech's 50 coeds. Student discipline will be handled by Dean Griffin rather than by his associates.

Named new assistant dean of students was George J. Budig who will oversee student activities and fraternities and work with the publications board in administering student publications. Budig, a 1958 graduate of Miami University (Ohio) has just returned to civilian life after two years active duty with the U. S. Marines. A native of Newport, Kentucky, Budig was a student and church leader while in college. He assumed his new duties, August 22.

New AF ROTC Commandant

A NEW AIR ROTC COMMANDANT has been named for Tech's Air Force unit. He is Colonel Donald S. Dunlap, a native of Pennsylvania and a 26-year veteran in the service. He joined the Tech staff on August 25 replacing Colonel W. R. Robertson, Jr., who has been transferred to Albrook Air Force Base in the Canal Zone as base commander.

Professor Schutz Returns

CIVIL ENGINEERING PROFESSOR Dr. Frederick W. Schutz, Jr. has returned to the campus after taking part in the "Year-in-Industry" program sponsored by the E. I. duPont de Nemours Co. in Wilmington, Del. During his year with DuPont, Professor Schutz expanded his knowledge of the use of electronic computers in the solution of structural engineering problems. In addition, he became more familiar with the training required of young engineers so that they can readily adjust themselves to computer usage. He said he was leaving DuPont with a new image of the construction industry. Schutz joined the Tech staff in 1955 and was named a full professor in 1958.

Tech Men Honored by ASCE

TWO TECH STAFF MEMBERS, Carl E. Kinds­vaater, regents professor of civil engineering, and R. W. Carter, former research engineer on the campus, have been awarded the coveted Norman Medal for the second time in five years. The medal is the oldest and most important award made by the American Society of Civil Engineers.

The award was made for their joint research paper on "The Discharge Characteristics of Rectangular, Thin-plate Weirs," published in 1959 in the Transactions of the ASCE. The paper was based on work carried out in Tech's hydraulics laboratory and was partially supported by the U. S. Geological Survey.

Major Case is Dead

MAJOR ALLANDO A. CASE of Carrollton, Ga., nationally known mechanical engineer and former Tech professor, died July 29 following a heart attack. Major Case taught at Tech from 1920 to 1930 and was named a full professor in 1930. He was a TTech alumnus and former Tech Martin engineering professor. He had served in World War I as a major in the U. S. Army Signal Corps and was the first Tech professor to serve in the armed forces.

GTRI's Mitchell Dead at 78

WILLIAM EDWARD MITCHELL, retired president of the Georgia Power Company and chairman of the board of the Georgia Tech
Research Institute, died July 31 at his home in Atlanta. Mr. Mitchell, an MIT graduate was one of the moving forces in back of the amazing research growth of Tech in recent years. In 1954, he won the Southern Association of Science and Industry award for being one of the three men who made the most outstanding contributions to the Southeastern part of the country.

At his death, Mr. Mitchell was president of the Atlantic Realty Company in Atlanta. He had lived in Atlanta for 33 years.

WSF Selects 1960-61 Students

TECH'S WORLD STUDENT FUND has selected six outstanding foreign students to study at Tech during the 1960-61 school year. This year's group includes Ian Eastwood, a mechanical engineering major from Scotland; Jamshed Asim Hashmi, a mechanical engineering major from Pakistan; Marcello Armani, an architecture major from Italy; Ferninad E. Schlaepfer, a mathematics major from Switzerland; Eberhart Stein, a mechanical engineering major from Germany; and Shmwel Kreiz, a mechanical engineering major from Israel. This World Student Program, run entirely by Tech students, is the only one of its kind in the country. Funds for its operation are secured by Tech students through a special fall fund drive and collections at one Tech football game. This year the students will live in the dormitories and eat their meals at fraternity houses on the campus.

Gilbert Presents ODK marker

On May 29, Capt. Jack H. Gilbert, '22, helped dedicate a campus ODK marker now located on the west side of the Ad Building. Accepting the new bronze key marker given Tech by Capt. Gilbert was 1960 class president, A. J. Land.

Columbus, Georgia—The regular summer meeting of the Columbus Georgia Tech Club was held on August 8. Guest speaker Bobby Dodd briefed the group on football prospects for 1960 and introduced two of his coaches, Marvin Bass and "Dynamite" Goodloe. Jim Byars presided over the meeting, and Bob Davis introduced Coach Dodd to the more than 100 alumni and other guests attending the meeting. Alumni Secretary Roane Beard also spoke at the meeting.

During the business meeting the following officers were elected for the coming year: president, Ernest Tharpe; vice president, Oscar L. Betts, III; secretary-treasurer, Craig F. Stukie.

Jackson, Mississippi—The Georgia Tech Club of Mississippi held a dinner meeting on June 14. Dean and Mrs. George C. Griffin were the honored guests at the meeting. The 67 members and guests present included alumni from Hattiesburg, Jackson, Raymond, Vicksburg, and Laurel, Mississippi plus prospective students and wives of the alumni. It was the largest meeting in the history of the club which is now headed by president Conrad Stevenson and secretary Charles M. Broad, Dean Griffin gave his usual enjoyable speech on Tech.

Memphis, Tennessee—The Memphis Alumni Club meeting of May 27 featured Tech Public Relations Director Fred Ajax as speaker. During the business meeting the following officers were elected for the coming year: president, Charles R. Wood; vice president, R. E. Pickett, and secretary-treasurer, L. E. Pedrick.

Savannah, Georgia—The spring meeting of the Savannah Alumni Club was a rousing success with nearly 200 Tech alumni and their wives attending the banquet to hear Coach Bobby Dodd talk about the 1960 football season. The Savannah Club has been reorganized and now includes alumni living within 60 miles of the city. The group has a new scholarship program which provides for academic scholarships for two local Tech students.

Tampa, Florida—The Florida West Coast Georgia Tech Club met in Tampa on June 30. The highlight of the program was a presentation of the first club scholarship to Ralph A. Hoffman of St. Petersburg who will enter Tech this fall. Tech Alumni Secretary Roane Beard made the presentation. Also other special guests of the club included 13 high school students, planning to enter Tech this fall, and their fathers. President George Barron presented a gift to Joe Smalley in recognition of his past service as club president.

New officers elected for the coming year included: president, J. W. Conner, Jr., of Tampa; vice president, Marshall Lorchide of Tampa; vice president, William E. Barlow of Largo; vice president, John S. Gruel of Mulberry; secretary, H. N. "Skip" Hicks of Tampa; treasurer, William R. Canals of Lutz, and directors Douglas Cone, Hal Hottzinger, and G. A. Hansen.

Clubs Urged to Name Counselors

Tech's new Alumni Counselor program, which gives applicants to the Institute an opportunity to secure information about Tech from informed graduates, has just completed its first year. While the response of alumni in volunteering to serve as counselors has been exceptional, more counselors are needed to increase the geographic coverage and ease the load on the 225 men now serving.

Under this program, counselors are supplied with up-to-date information on Tech's programs, and applicants in their areas are asked to contact the counselors for interviews and information. All correspondence is handled by Tech's Office of Admissions at no expense to the counselors.

Any interested Tech graduate may obtain additional information on this program by writing W. M. Eastman, associate director of Admissions, Georgia Tech, Atlanta 13.
Fred B. Moore, Com., Atlanta realtor, has been elected to the board of directors of Kennesaw Life and Accident Insurance Company.

Herman Armin Maier, Jr., vice president of Maier and Berkele Jewelers, Atlanta, died June 13. His widow lives at 95 Forest Lake Drive, N.W., Atlanta.

Walter H. (Coach) Glenn, Sr., TE, died June 15. He retired as manager of Glendale Mills in Spartanburg, South Carolina several months ago due to ill health. His widow lives at 851 Twin Oak Drive, Decatur, Georgia.

Fred W. Bush, EE, assistant to the vice president, Power Equipment Division, Allis Chalmers Manufacturing Company in Milwaukee, has been elected a vice president of the American Institute of Electrical Engineers representing the Great Lakes District.

Claude L. Huey, ME, celebrated his 30th year of service with the Babcock & Wilcox Company this summer. He joined the company as an apprentice and has served in various capacities. He is now district sales manager in Atlanta. His home address is 1155 Lullwater Road, N.E., Atlanta, Georgia.

James M. Sewell has been elected president of the Southeastern Cotton Seed Crushers Association. He is manager of the Buck-eye Cotton Oil Company. Mr. Sewell lives at 127 Courtland Drive in Montgomery, Alabama.

Reverdy E. Clarke, EE, died unexpectedly July 18 while on a business trip. He was with the Georgia State Parks Department. His widow lives at 201 Huntington Road, N.E., Atlanta, Georgia.

William Earl Gleaton died this past February in an Arlington, Georgia hospital following a brief illness. He owned farming interest and was active in civic and political affairs in his community.

Samuel M. Harrison, Com., died July 29 at his home, 2204 Southwood Road, Vestavia, Alabama. He was vice president of the Rail Joint Reforming Company of Birmingham, Alabama.

We recently received word of the death of J. B. Adams of Chavier, Alabama. No further information was available at this writing.

Joseph R. Bracewell, 1M, has been selected to attend the ten month resident course at the Industrial College of the Armed Forces. He is Assistant Chief of the Development Division of the Army's Office of Assistant Chief of Transportation for Research and Development. He lives at 1100 Marlan Drive, Alexandria, Virginia.

Morris T. Reeves, EE, died July 24 in an Atlanta hospital. He had been with the Georgia Power Company for 26 years and at the time of his death was manager of residential sales in the engineering division. His widow lives at 1084 Roxboro Drive, N.E., Atlanta, Georgia.

J. W. Ashbury, EE, retired in June from Western Electric after 33 years of service. He was a senior engineer with the New York office. Mr. Ashbury now lives at RD #2, Lakemont, Georgia.

Colonel Raymond W. Burkett, USA, EE, has been named Director of the Army Rocket and Guided Missile Agency's newly formed Research and Development operations at Huntsville, Alabama.

Eugene D. Drummond, 12, has been appointed the architect for the Mississippi State Building Commission which is in charge of all construction at state institutions. Drummond's duties include advising the Commission on specifications and architects.

William C. Lawrence, '32, has been elected vice president in charge of the recently-formed development engineering department of American Airlines, Inc. Lawrence has been assistant vice president of the company's engineering department in Tulsa, Okla.

Oscar H. Thompson, '36, head of the Thompson-Boland Lee shoe stores in the Atlanta area, has been nominated by President Harrison for the 1960 Silver Anniversary football team sponsored by Sports Illustrated. Thompson was an end on three Tech teams.

Vincent Neisius, '40, has been appointed national computer sales manager for Packard Bell Computer Corp. He will direct the sales and service force for the company's new PB250 General Purpose Digital Computer. Neisius taught mathematics at Tech.

R. P. Stuntz, '40, has been named manager of field sales of the Babcock & Wilcox refractories division. Stuntz joined the company in 1940 as a plant engineer and has been its assistant sales manager since 1957. He has also served as Chicago manager.
Creating a strange world of cold

The coldest natural temperature ever recorded—100 degrees below zero—occurred in the Antarctic. But the people of Union Carbide are producing temperatures all the way down to minus 450 degrees... approaching absolute zero!

Startling things are being done at this unearthly cold temperature. Many types of living tissue are being preserved, and research is now well under way in freezing whole blood. Certain metals become perfect conductors of electricity—a rare quality which may bring greater efficiency to electronic equipment. And, for over fifty years, Union Carbide has used these ultra-low temperatures to turn air into liquid... then extract oxygen, argon, nitrogen and other atmospheric gases in their pure form. They are produced on a mammoth scale to meet the great demand from industry.

Working with such extreme cold is still a young science known as cryogenics. It is only one of many areas in which the people of Union Carbide are striving to make tomorrow a better world.

Learn about the exciting work going on now in gases, carbons, chemicals, metals, plastics, and nuclear energy. Write for "Products and Processes" Booklet K, Union Carbide Corporation, 30 East 42nd St., New York 17, N.Y. In Canada, Union Carbide Canada Limited, Toronto.
**NEWS BY CLASSES—continued**

'34  George M. Chastain, Ch.E., has been named Assistant Manager of the Hercules Powder Company's new multimillion dollar polypropylene plant at Lake Charles, Louisiana. Mr. Chastain is transferring from the Hercules plant at Parlin, New Jersey.

Colonel Ian M. Davidson, USA, CE, has been appointed Assistant Division Commander, 81st Infantry Division Reserve, with headquarters at 699 Ponce de Leon Avenue, N.E., Atlanta, Georgia.

John C. Douglas, EE, has been appointed vice-president-operations with the Union Carbide Corporation in New York City. He has been with the company since 1934.

Frank W. Hulse has been elected president of the newly established National Aero-nautical Services Association. He is president of Southern Airways Company with headquarters in Birmingham, Alabama.

E. N. O’Beirne, Jr., ME, vice president of the Aetna Casualty and Surety Company and the Standard Fire Insurance Company, is now in charge of the company's Fire, Marine & Multiple line underwriting department.

'35  Decatur Jackson Phillips, an All-Southeastern Conference football star in 1933, died July 28 after an illness of several months. He had lived in Atlanta until 1944 when he moved to Augusta, Georgia. At the time of his death he was president and owner of Riverside Sales Company.

Born to: Mr. and Mrs. Roy Richards, ME, a son, James Case, December 31, 1959. He is a namesake of Major A. A. Case, retired professor of mechanics at Georgia Tech. Mr. Richards is president of the Southwire Company in Carrollton, Georgia.

Colonel William C. Adams, USAF, has been assigned to L. G. Hanscom Field, Bedford, Massachusetts for duty with the Air Force Command and Control Division.

George Henry Braxwell, ME, a partner in the Beam Oil Company, died of a heart attack in an Atlanta hospital June 16. His widow lives at 32 Fairfield Drive, Avondale Estates, Georgia.

R. A. “Pop” Siegel, Ch.E., was recently installed as 1960-61 president of the Rotary Club of Brookwood. He is president of the R. A. Siegel Companies. His business address is 1175 Chattahoochee Avenue, NW, Atlanta, Georgia.

'37  Allen Harold Jensen, ME, has been named vice president, Region X of The American Society of Mechanical Engineers. He is mechanical engineer in charge of maintenance, New Orleans Public Service, Inc., New Orleans, La.

Donald C. Johnston has been selected to participate in the Advanced Management Program at the Harvard Business School. He is general manager, Northern Group Woolen & Worsted Division with J. P. Stevens & Co., Nort Andover, Massachusetts.

'38  Francis L. Shackelford, Jr., Ch.E., has been named assistant manager of the Dyes & Chemicals Division with Du Pont in Chicago's district sales office.

W. F. Bennett, ME, has been named Assistant chief engineer with the Atlanta Gas Light Company. He has been with the company since graduating from Georgia Tech.

Henry R. Strickland, ME, died May 31 at his home in Palo Alto, California. He was employed by United Air Lines.

W. P. Ballard, Ch.E., has been promoted to supervisor of the Fuels Research Department of Texaco's Port Arthur & Port Neches, Texas Research Laboratories.

Charles B. Burbach was graduated in June from The American University in Washington, D.C. with a Master of Arts degree in Public Administration. His address is 2014 Holly Lane, Falls Church, Virginia.

Joseph S. Hornsby, Ch.E., has been promoted to assistant service supervisor with the Atlanta Gas Light Company in Atlanta.

C. H. McIntosh, Ch.E., has been promoted to Director of Lubricants Research at Texaco's Port Arthur and Port Neches, Texas Research Laboratories.

G. Warren Gregory, EE, has been appointed by Genesco as manager of their General Chemical Company. He lives at 770 Elysian Fields Road, Nashville, Tennessee.

'42  Charles B. Burbach was graduated in June from The American University in Washington, D.C. with a Master of Arts degree in Public Administration. His address is 2014 Holly Lane, Falls Church, Virginia.

James R. MacPherson, AE, is now with the Atlantic Research Corporation in Alexandria, Virginia as assistant to the vice president. His home address is 1428 Claremont Drive, Falls Church, Virginia.

William F. Norman, ME, has been named division engineer with the Atlanta Gas Light Company.

Malcolm J. Genney, IM, is now vice president in charge of manufacturing for the Stationery Division of Whiting Paper Company. Prior to this appointment he was plant manager. He lives at 520 Amherst Road, South Hadley, Massachusetts.

I. B. “Bud” Miller, IM, is the 1960-61 secretary of the Huntsville, Alabama Rotary Club. He is treasurer of L. Miller & Son, Inc., a scrap material, structural steel and welding equipment firm. His business address is 606 8th Street, NW, Huntsville, Alabama.

'49  Emil J. Dalo, IE, has been promoted to Export Manager with the Metallizing Engineering Company, Inc. His business address is 1101 Prospect Avenue, Westbury, New York. Prior to this promotion he was Southern district manager in New Orleans, Louisiana.

E. K. Domingos, Jr., ME, is now with Continental Oil Company. His home address is 803 5th Street, Apartment 8, Morgan City, Louisiana.

Married: Dr. Kendall Ling-chiao Su, EE, to Miss Jennifer Chang, September 10. Dr. Su is associate professor of Electrical Engineering at Georgia Tech.

Paul Taylor, Ch.E., is now utilities superintendent at Chemstrand in Decatur, Alabama.

Harrison M. Wadsworth, IE, received his doctor of philosophy degree in statistics in June from Western Reserve University in Cleveland, Ohio.

'50  J. R. (Bob) Bruce, IE, has been named assistant manager of Northrop Corporation's Huntsville, Alabama district office.

William D. Burch, IM, has been named vice president of Southern Steel Buildings, Inc. His business address is 4245 Morris Avenue, Birmingham, Alabama.

Born to: Mr. and Mrs. James Eliopolo, EE, a daughter, Kathryn Ann, July 1.

Rolston Johnson, IM, after ten years with Armstrong Cork Company, has resigned as Dallas district manager to form a new building materials distribution dealership in Oakland, California. The new firm, The Butler-Johnson Corporation, is located at 4250 San Leandro Street, Oakland, California.

Born to: Mr. and Mrs. Paul H. Shown, EE, a daughter, Anna Catherine, July 10.

Thomas C. Bush, ME, has been named Augusta superintendent of the Atlanta Gas Light Company.

Married: A. J. Jones, Jr., IM, to Miss Beverly Ann Hammond, August 20. Mr. Jones is in commercial sales with the Georgia Power Company in Rome, Georgia.

John F. Steedley, ME, has been appointed chief engineer of Southern Land, Timber & Pulp Corporation. He was formerly associated with Bowaters Engineering & Development, Inc.

'51  J. Fred Chairnow, CE, has been granted registration as a Professional Civil Engineer by the State of California. He is assistant civil engineer with the California Department of Water Resources, Supervision of Safety of Dams Section. He lives at 4054 Cornelia Way, North Highlands, California.

Leo J. Kornjeld, TE, has been elected a principal of Cresap, McCormick & Paget, Management Consulting firm of New York City. He will continue to be associated with the firm's Institutional Division. His business address is 342 Madison Avenue, New York, New York.

Born to: Mr. and Mrs. Terrell N. Lowry, EE, a son, Kent Nicholson, May 31. Mr. Lowry was recently appointed supervisor at Bell Telephone Laboratories. Their home address is Boonton Avenue, Box 461, RD 2, Boonton, New Jersey.

William E. Voss, Ch.E., has joined the
technical services department at Monsanto Chemical Company's William G. Krummrich Plant at Monsanto, Illinois.

George W. Adams, Ch.E, has been named operating superintendent with the Atlanta Gas Light Company in Atlanta. He was formerly general superintendent in Macon, Georgia.

Born to: Mr. and Mrs. Charles M. Beatenbaugh, ME, a daughter, Helen Dean, June 24. Mr. Beatenbaugh is a member of the technical staff of Bell Labs in Burlington, North Carolina.

Married: Richmond J. Dougal, IM, to Miss Phyllis Burrell, July 2 in Jamaica. Both Mr. and Mrs. Dougal were employed by General Electric in Schenectady's advertising and sales department until July. They now reside in Jamaica where Mr. Dougal is Director of Public Relations. Jamaica Tourist Board. His business address is 78-80 Harbour Street, Kingston, Jamaica.

William Frank Johnson, Jr., IM, is now district manager of the Tokheim Corporation in Jacksonville, Florida. His home address is 1204 Timber Lane, Jacksonville, Florida.

Born to: Mr. and Mrs. Lamar Latimer, TE, a daughter, Laura Dianne, June 27. Mr. Latimer is with the Russell Manufacturing Company, Alexander City, Alabama.

James H. Mauldin, Phys, recently received his Masters degree from the California Institute of Technology.

W. Lane Phillips, CE, has been transferred from Shell Oil Company's Offshore Design group in New Orleans to be civil engineer in charge of designing offshore structures in Shell's Houston, Texas office. His mailing address is P. O. Box 2099, Houston, Texas.

Engaged: Milliam B. Raines, Architecture, to Miss Dorothy Bliss. Mr. Raines is vice president of the W. E. Raines Company, Inc. in Augusta, Georgia.

Married: Robert Edward Boniface, IM, to Miss Mary McLaughlin in September. Mr. Boniface is with Reynolds Aluminum Supply Company in Atlanta.

Major Frank W. Draper, USAF, has been assigned to L. G. Hanscom Field, Bedford, Massachusetts, for duty with the Air Force Command and Control Development Division.

Engaged: Charles R. Hager, III, IM, to Miss Anne Tyler. The wedding will take place in the fall. Mr. Hager is with IBM in Atlanta.

Married: Lt. Charles Raiford King, TE, to Miss Dana Mary Siers, February 20. Lt. King completed the Engineer Advanced Officers Course at Fort Belvoir, Virginia in June and has been assigned to Headquarters, 3rd Log. Command, APO 58, New York, New York. He is stationed at Orleans, France.

Married: Lt. Robert A. Lansdell, Jr., USAF, TE, to Miss Patricia Mayo, August 20. Lt. Lansdell is stationed at Homestead AFB, Florida.

More news on page 28
NEWS BY CLASSES—continued

Harlow E. Lichtwardt, IE, is now assistant plant superintendent with Equitable Paper Bag Company, 45-50 Van Dam Street, Long Island City, New York.

Robert B. Ormby, AE, has been named chairman of the Stanford-Sloan Fellows, following a year's study in advanced executive management at Stanford University, Stanford, California. He is manager of Lockheed Aircraft's Georgia Division aerospace technology department at Marietta, Georgia.

Born to: Mr. and Mrs. W. Shadden, Jr., IM, a son, W. N., III, March 24. Mr. Shadden is assistant vice president of the First National Bank in Cartersville, Georgia.


Married: William Campbell Graeub, IE, to Miss Jayne Steidie. Mr. Graeub is with the Department of Highways and Traffic in Washington, D. C.

David Craig Mactye received the degree of doctor of medicine from the University of Rochester.

Born to: Lt. and Mrs. Rudolph Matzner, USN, IE, a son, John Rudolph, April 27. Lt. Matzner is studying electrical engineering at the U. S. Navy Post-graduate school in Monterey, California. He lives at 62 Work Avenue, Monterey, California.

Robert M. May, IE, has been commissioned second lieutenant with the U. S. Army at Fort Benning, Georgia.

Dr. Henry H. Sineath, ChE, has been named manager of Film Development for American Viscose Corporation in Philadelphia, Pennsylvania.

Hal L. Watts, IM, has been promoted to assistant cashier with the First National Bank of Atlanta, Stewart Lakewood Branch. He lives at 2345 Fair Lane, Decatur.

Jesse G. Bagwell, Jr., IM, is now division manager for the state of Florida with Texize Chemicals. His home address is 3925 Eden Rock Circle West, Tampa 7, Florida.

Married: John Arthur Busby, Jr., Arch, to Miss Mary Ann Cross, July 16. Mr. Busby is with the architectural firm of Abreau & Robeson, Inc. in Atlanta.

Born to: Mr. and Mrs. William S. Dugan, Jr., ME, a son, Jeffrey Scott, June 13. Mr. Dugan is shift supervisor at DuPont's new Polyethylene Film Plant. Their home address is 1902 Southcliff Road, Richmond, Virginia.

Married: James Kenneth Waid, IE, to Miss Elizabeth Gillkin, July 9. Mr. Waid is a methods and planning engineer with DuPont in Waynesboro, Virginia. Their home address is 1087 14th Street, Waynesboro, Virginia.

Edward Tracy Barnes, Jr., IM, to Miss Nancy Jeanne Roberts, July 23. Mr. Barnes is with Deering Miliken and Company in Cleveland, Ohio.

Married: Alec Benson, ME, to Miss Terry Lynne Grant, April 2. Mr. Benson is with Union Bag-Camp Paper Corporation. They live at 47 Fairmont Avenue East, Savannah, Georgia.

Engaged: J. Daniel Carr, TE, to Miss Ruth Ann Byrne. The wedding will take place in October. Mr. Carr is with Burlington Mills in Fayetteville, North Carolina.

Johg Ming Chew, ChE, has completed his military service and returned to work with Humble Oil and Refining Company in Baytown, Texas. He is in the Aviation Section.

Married: Lt. Anthony Joseph Dreixel, IV, USAF, AE, to Lt. Mary Jacqueline McIntyre. The wedding took place at Homestead Air Force Base, Florida, July 2. They will be transferred to North Dakota this fall.

Lieutenant Richard D. Gillem, USA, IM, is serving with the Army's Berlin Command as platoon leader with Company B, 3rd Battle Group of the 6th Infantry.

Married: John A. Jordan, IE, to Miss Betty Belsterling, June 11. Their address is 1546 D-1 Catasuqua Road, Bethlehem, Pennsylvania.

Noel H. Malone, Jr., ChE, has been transferred by Eastman Chemical Products, Inc. to their New York City office where he is a sales representative. His home address is 245 Rumsey Avenue, Apartment G-6, Yonkers 6, New York.

Married: Otis D. Rackley to Miss Betty Coleman August 27. Mr. Rackley is a senior at the Emory University School of Dentistry.

Charles C. Space, ME, has been named Director of Engineering, Research & Cost at Sparkler Manufacturing Company (Industrial Filters) in Conroe, Texas. His home address is 10218 Torrington Lane, Genoa, Texas.

Married: Donald Lionel Towns, ChE, to Miss Joyce Jean Harper. They live in Madison, Wisconsin. Mr. Towns is working on his doctorate in chemistry at the University of Wisconsin.

C. Rodrigo Vallejo, ME, formerly plant engineer for Abbott Laboratories of Colombia at their Cali plant has been transferred to Bogota where he is assistant to the chief project engineer while the lab is under construction. After completion of the lab he will be plant engineer. His address is c/o Engineering Department, Abbott Laboratories of Colombia S. A., Jard. Apartado Aereo 3589, Bogota, DE, Colombia, S. A.

Arthur B. Ward, III has received his masters degree from Rutgers.

Born to: Mr. and Mrs. A. Dunson Dunaway, IE, a daughter Anna Bonner, August 1. Their address is 20 Highland Dr., N. E., Atlanta 5, Georgia.

Henry T. Falvey, CE, has received his masters degree from the California Institute of Technology and is now with the Technical Engineering Analysis Branch, Bureau

More news on page 30

Louis A. Fiori, '42, a cotton technologist with the Southern Utilization Research and Development Division in New Orleans, represented the U. S. Agricultural Research Service at the 4th plenary conference of the ISO on Textiles in London in May.

Dr. K. E. Shuler, '42, has been appointed consultant to the director of the National Bureau of Standards. An authority on chemical kinetics, statistical mechanics, energy transfer, and molecular spectroscopy, he will advise in these areas.

George H. Childers, '43, has been named manager of room air conditioner sales for Kelvinator division of American Motors Corp. He joins Kel­vinator after two years with Chrysler Airltem where he was general manager of a similar department.

Oslin D. Whiddon, '43, technical engineer of power plants for the Detroit Edison Co., has been appointed assistant superintendent of the Enrico Fermi Atomic Power Plant. He has been with Detroit Edison in various capacities since early 1947.

Hugh B. Manson, '50, Colonel, U. S. Air Force, has been named commander of the new military-industrial Ballistic Missile Site Activation Task Force for ATLAS ICBM installations at Dyess Air Force Base, Texas. He is a rated command pilot.

W. O. Gordon, '51, of Atlanta, has been appointed to the sales staff of Bowater Board Company. He will serve as the company's industrial sales representative in the southeast working out of Atlanta. Prior to joining Bowater, he was a safety engineer.

TECH ALUMNUS
DATA·phone

A NEW TELEPHONE SERVICE
FOR THE NEW ELECTRONIC ERA

Bell System's Data-Phone service enables modern business machines to "talk" to each other over regular telephone lines.

More and more businesses are using complex computers and other electronic machines to process current facts and figures.

Where plants, warehouses, branches or offices are located in different cities and states, there is increasing need for a quick, economical way to transmit payroll, inventory, billing and other data from place to place.

This is especially true where the policy is toward decentralization of various activities.

In serving this communication need, the Bell System has come up with a new and extremely flexible method called DATA·PHONE service.

The great advantage is that business data goes over the same telephone lines you use for telephone conversations.

The new service uses Data-Phone sets to link customers' business machines—handling paper tape, magnetic tape or punched cards—to regular telephone lines. This machine-furnished data can be handled over telephone lines at speeds up to 1200 bits per second.

The customer pays for each Data-Phone call just like a Long Distance call for any period he wants.

Thus, in addition to our teletypewriter service, designed for low-speed operations, and our leased-line offerings allowing literally any speeds, we can now offer the added flexibility of our vast Long Distance telephone network for data transmission.

In providing the communication lines and Data-Phones, the Bell System is working right along with manufacturers who are developing the business machines to complete the service.

It all adds up to an interesting and exciting opportunity to render a new data communications service for our business customers.

A GREAT FUTURE

It is not improbable, within the next decade, that the amount of communication between electronic business machines in different cities will be as large as telephone communication between people.
NEWS BY CLASSES—continued

of Reclamation in Denver as a civil engineer. His address is Box 156, Idaho Springs, Colorado.

Stanley L. Terry, IE, received his masters degree from New York University at the University's graduate center at Bell Laboratories. He is an engineer with Bell Telephone Laboratories. Stanley lives at 71-D Troy Drive, Springfield, New Jersey.

Born to: Mr. and Mrs. William Ralph Holt, ME, a son, Daniel Gregory, May 16. Their address is 1501 Avon Avenue, S.W., Atlanta 11, Georgia.

Married to: Henry Nathan Sears, Jr., IM, to Miss Sara Livingston, August 13. Mr. Sears is with Rich's, Inc., in Atlanta.

Donald A. Recchio, CE, received his master of science degree from Lehigh University in June.

Born to: Mr. and Mrs. Charles William Summers, IM, a son, Richard Harrison, July 3.

'59 Engaged: James R. Bates, Jr., IE, to Miss Sara Lee Snowden. The wedding will take place in October. Mr. Bates lives at 2129 Dorchester Avenue, Charleston Heights, South Carolina.

Married: Ensign John H. Boykin, USN, IM, to Miss Lila Saralyn Thompson. Ensign Boykin is stationed at the Navy Supply Corps in Athens, Georgia.

Lieutenant John R. Copeland, USA, has completed the Officer basic course at the Chemical School, Fort McClellan, Alabama.

James T. Ford, ME, graduated in June from the American Institute of Foreign Trade in Phoenix, Arizona. He is now with M. Castelli, Inc.

Married: Stephen, C. P. Hwa, ChE, to Miss Theresa Monica Wang. The wedding took place in early September. Mr. Hwa is working on his PhD. at Georgia Tech.

Married: Charles Edward Kleiman, IM, to Miss Sue Smith, August 6. Mr. Kleiman is with Shepherd Chemical Company, Cincinnati, Ohio.

Lieutenant J. Martin, USA, ChE, has completed the Officer basic course at the Army Signal School, Fort Monmouth, New Jersey.

Born to: Mr. and Mrs. Ronald Rowland, a daughter, Wanda Gaye, June 10.

Kenneth Slobody, USN, IM, has been commissioned an Ensign after training at the Naval Pre-Flight School at Pensacola, Florida.

'60 Married: Vernon Claude Anderson, IM, to Miss Linda Thompson, August 20. Mr. Anderson is with the Consolidated Quarries Division of Georgia Marble in Atlanta.

Frank B. Arbour, IM, is a trainee in the sales division at Cummins Engine Company, Columbus, Indiana. He lives on Deaver Road in Columbus.

Engaged: James Homer Beard, Jr., IE, to Miss Mary Marchman Harman. The wedding will take place September 24. They will live in Athens, Georgia where Mr. Beard will attend Naval School.

Engaged: James T. Ford, ME, to Miss Martha Church, August 5.

Married: Donald David Gehring, IM, to Miss Mary Elizabeth Groover, August 6.

Edward W. Graham, Jr., IE, is an industrial engineer at Warner Robins Air Material Area, Warner Robins AFB, Georgia.

Married: Lieutenant William Franklin Hollingsworth, USA, CE, to Miss Judith Guy, July 16. Lieutenant Hollingsworth is stationed at Fort McClellan, Alabama.

Married: Richard N. Houze, ChE, to Miss Barbara Dame, July 16. He is with the Research & Development Division at Humble Oil in Baytown, Texas.

Stewart M. Huey, IM, is participating in the Student Engineers' Training Program at the Babcock-Wilcox Company's boiler division in Barberton, Ohio.

Edgar L. McGee, ChE, joined the Humble Oil & Refining Company's Baytown, Texas division this summer and has been assigned to the Calaltyc Cracking Section.

Married: William Wells McKee, Jr., CE, to Miss Carolyn A. Martin, September 4. Mr. McKee is with Bethlehem Steel Corporation in Bethlehem, Pennsylvania.

Dave McNeill, IM, is presently on a training program with Deering Milliken in South Carolina.

Married: William Parish Noel, IM, to Miss Elizabeth Andrea McWaters, May 6. Lieutenant Noel is serving with the Air Force in Texas.

Lieutenant William W. Prince, USA, IM, recently completed a 16 week field artillery officer basic course at the Artillery and Missile School at Fort Sill, Oklahoma.

Married: Claude Stephens Rhea, ME, to Miss Charlene Glass, August 13. Mr. Rhea is with the Cooper-Bessemer Corporation, Mount Vernon, Ohio.

Doctor William H. Starnes, Jr., ChE, has completed the Research and Development Division at Humble Oil and Refining Company in Baytown, Texas. He lives at 1300 East James, Apartment 10, Baytown, Texas.

Anne Stephens, ChE, is now working in the process development division, research and development department, at Phillips Petroleum Company in Bartlesville, Oklahoma.

Lieutenant Wesley W. Thompson, Jr., EE, has completed the officer wire-communications course at the Army Signal School, Fort Monmouth, New Jersey.

Engaged: Samuel Joseph Warlick, TE, to Miss Mary Jane Fleming. The wedding will take place in the fall.

Donald A. Willoughby, ME, is a trainee in the research division at Cummins Engine Company, Columbus, Indiana. He lives at 1545 27th Place, Columbus, Indiana.

Engaged: Robert Reynolds Winchester, ME, to Miss Dorothy Elizabeth Dillard, August 7. Mr. Winchester is with the Superior Stone Company of Salisbury, North Carolina.

Married: Jack W. Benson, ChE, to Miss Betty Griffin, July 3. Mr. Benson is with Celanese Fiber Company, Rock Hill, South Carolina.

W. Lewis Brown, IM, is now a salesman with Standard Oil Company in Atlanta.

Married: Raymond Kenneth Elderd, Jr., IE, to Miss Martha Church, August 5.

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The care and feeding of a missile system

It takes more than pressing a button to send a giant rocket on its way. Actually, almost as many man-hours go into the design and construction of the support equipment as into the missile itself. A leading factor in the reliability of Douglas missile systems is the company's practice of including all the necessary ground handling units, plus detailed procedures for system utilization and crew training. This complete job allows Douglas missiles to move quickly from test to operational status and perform with outstanding dependability. Current missile and space projects include THOR, ZEUS, DELTA, SKYBOLT, GENIE and others of vital national importance.

We invite qualified engineers, physicists, chemists and mathematicians to join us to help further these and future programs. Write to C. C. LaVene, Douglas Aircraft Company, Santa Monica, California, N Section.
Vote now for your 1960-61 officers and trustees

R. A. "Pop" Siegel, '36, heads the list of candidates nominated to lead the Georgia Tech National Alumni Association during the 1960-61 year. The nominating committee—Frederick G. Storey, '33, chairman; A Thomas Bradbury, '23; and Oscar A. Thompson, '36—selected the Atlanta business executive to be their nominee for the next president of the Alumni Association.

Acting in accordance with Article Five of the By-laws, the committee nominated the following for the other posts on this year's slate: Ira H. Hardin, '24, for vice president; J. Frank Willett, '45, for vice president at large; and J. L. Brooks, Jr., '39, for treasurer.

The committee also nominated the following for three-year terms as trustees of the Association: Marthame Sanders, '26; Jack Adair, '33; John H. Woodall, Jr., '38; and Madison F. "Matt" Cole, '41.

Under Article VIII of the amended By-laws, four trustees shall be elected by the members of the Association each year for three-year terms. In addition, the immediate past president (Joe L. Jennings, Jr., '23, in this case) and six alumni named by the incumbent president will also be members of the new Board of Trustees. The other 12 members of the Board include the Association officers and trustees with one or two years to serve on their elected terms.

The Nominees

For President—One of Atlanta's top young business and civic leaders, R. A. "Pop" Siegel is now serving his second term as vice president of the Association. He is a former president of the Greater Atlanta Georgia Tech Club and has been a trustee of the National Association in charge of many of its major committees. He is the president of R. A. Siegel Companies.

For Vice President at large—Another past president of the Greater Atlanta Georgia Tech Club, J. Frank Willett is now serving his second term as treasurer of the National Association. He has recently been promoted to Area Manager for Westinghouse Electric Company in Chattanooga.

For Vice President—Ira H. Hardin is president of Ira H. Hardin Company of Atlanta and a member of the Association Board of Trustees. He is presently chairman of the safety program of the Association of General Contractors and is a past president of the Greater Atlanta Georgia Tech Club.

For Treasurer—J. L. Brooks is vice president of the Atlanta firm of Tharpe and Brooks and a present member of the Association's Board of Trustees. He is a past president of the Atlanta Club and a former Tech all-SEC guard.

For Trustee—Owner of Marthame Sanders and Company of Atlanta, Marthame Sanders is a member of the Local Education Commission of Atlanta and Fulton County. He is a well known Atlanta civic and church leader.

For Trustee—Jack Adair is president of the Atlanta firm of Adair Realty and Loan Company. He is a past president of the Atlanta Chamber of Commerce, the Real Estate Board and the Atlanta Mortgage Bankers Association. He is currently a member of the Board of Governors of the Mortgage Bankers Association of America.

For Trustee—John H. Woodall, Jr. is secretary and sales manager of Georgia Cushion and Wrapper Co., and general manager of Woodland Furniture Manufacturing Co. both of Woodland, Georgia. A local civic leader, he is a recipient of the Silver Beaver Award from the Boy Scouts of America.

For Trustee—Madison F. "Matt" Cole is a life underwriter with The Mutual Life Insurance Company of New York and a member of that company's Top Club Round Table. He lives in Newnan, Georgia and is active in civic and church activities there. He is a past president of the Newnan Rotary Club.

How to Vote

All active members of the Association who desire to confirm the above nominations for officers and elected trustees or who wish to present write-in candidates may do so by filling out the official ballot on this page and mailing it to the Georgia Tech National Alumni Association, Atlanta 13, Georgia. This vote is for election. Be sure to sign your ballot.

BALLOT FOR NATIONAL ALUMNI ASSOCIATION OFFICERS AND TRUSTEES, 1960-61

☐ My check in box indicates approval of nominees or I vote for the following write-in candidates:

FOR PRESIDENT:

FOR VICE PRESIDENT:

FOR VICE PRESIDENT (at large):

FOR TREASURER:

FOR TRUSTEES (vote for four):

Signed: ___________________________  Class: ___________________________

Mail before October 20 to Georgia Tech Alumni Association; Atlanta 13, Georgia.
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