

• **RELIGION ON THE CAMPUS** 

- A Student Speaks
- ELECTRONIC COMPUTERS
- Spring Sports Preview

March, 1955







# RAMBLIN' — the editor's notes

 $W^{\scriptscriptstyle E}$  were well aware — of course — that Tech's twin basketball victories over mighty Kentucky had received a tremendous amount of attention in the nation's sports press. We saw clippings on the two games from newspapers and magazines published in all parts of the country. And we even had word from overseas that the second Tech basketball victory over the Wildcats rated as much space on the Associate Press wire as Malenkov's retirement.

It seemed to us to be one of the great sports stories of all time. And we viewed it as such in our February issue. Imagine our chagrin when we received the February issue of the Sewanee Alumni News. On the front cover was an action shot of the Tech-Sewanee game of January 6th, won by the Tenneseeans by a measly point. Mortised into the picture was this pride-shattering headline, "Sewanee Trips Georgia Tech; Tech Beats Kentucky."

Is there nothing sacred anymore?

. .

UR LAST issue left you smack-dab in O the middle of the tryouts for Drama Tech's production of Key Largo. Since then, the Tech dramatic group has produced a very successful threeday run of the Maxwell Anderson tragedy. (They turned them away for the last two performances.)

We went by and took in the opening night performance. And we were properly amazed at the depth of feeling and professional quality of performance that the Tech students brought to a very difficult and complicated play. It was far and away the toughest script ever tackled by the Tech thespians. They came through with flying colors.

Our new columnist, Gordon Albury (see page 4), demonstrated another of his talents in turning in a sensitive portrayal as King McCloud, the lead character in the play. So convincing was Gordon as this lost and consciencestricken soul that - during the death scene - a young Atlanta Miss, seated directly in back of us, broke into a flood of tears. Finally, unable to control herself any longer, she let out a soul-shattering sob which brought a very audible burst of laughter from her blasé date. This unexpected sound of laughter coming from the audience almost broke up a couple of actors who — at the time — were theoretically engaged in being a part of an overpowering tragedy.

But our boy Gordon wasn't phased. He just went ahead with his dying in that grand tradition of the theatre ---the show must go on.

THIS IS the time of the year when the L campus takes on an entirely new look. It isn't that the trees are turning green again — it's too early for that. It's the dress of the seniors. Many of them pass us every day in their neatlypressed suits, clean white shirts and ties. They are almost un-recognizable. and we often have to take a second look before we can call them by name. It is one of the most bewildering times of the entire campus year.

The reason for all this dressing up, of course, is that the interview season is upon us once again. The representatives of the great and small American industries and businesses are roaming the campuses of this country in search of that rare specimen, the graduate engineer. There will be less than 20,000 of them in this country this year. And the demand far exceeds the supply in this technological age.

This interview season - which stretches from January to May-will see the 900 Tech men who will graduate between now and December receive a total of 24,000 interviews. That's an average of 27 interviews per man. The average starting salary for engineers with a B.S. will be somewhere in the neighborhood of \$380 per month, a jump of \$10 a month over last year's figures. As you can see from these figures, supplied by Tech's Placement Director, Fred Ajax, the competition for the engineer continues to get rougher and rougher each year.

Contrast these figures with those that prevailed when you finished Tech. Or, better yet, contrast them with this set of figures supplied us by W. L. (Bill) Heinz, ME '11, of Columbia, S. C., who wrote us recently inquiring about the engineering job situation of today. When Bill graduated, he was delighted to get a job as an apprentice engineer with a northern railroad at the fabulous salary of \$64 per month. After three years he was promoted to assistant engineer at almost double that figure.

Things certainly have changed for the better for the engineer. And from all indications the shortage will continue to grow as this great technological civilization of ours continues to evolve.

More about placement in Roane's column on page 5 of this issue.

HERE ARE times when it occurs to us, as it once did to ex-editor Wright Bryan of The Atlanta Journal, that "The Rambling Wreck song is something of a libel on the college it helped to make famous . . . far from being a *helluva* engineer, the typical Tech graduate is likely to be an exceptionally competent engineer - a credit to his college, his state and his profession."

This thought popped into our mind when we started the research for the article on Religion which starts in this issue. From what we and other researchers can gather, the average Tech student is seriously interested in religion in his daily life. And far from drinking his whiskey clear, today's student (again we are using that theoretical character, the average man) doesn't have the time, the money or the inclination to partake of the hops.

TUST AS WE completed the article on religion on the campus and expounded at length on what good boys the Recks really are, it happened. A large group of Tech students (estimates ran from 100-300) pulled an unscheduled parade that went from the dormitories to the Crawford Long Nurses Quarters to the Fox and back to the Varsity. The group though fairly orderly in their marching (they even stopped for the red light at West Peachtree) were slightly on the noisy side, and the police were called in to break it up. And they finally did.

Five of the boys (and there are rumors on the campus that the majority of the five were not involved in the parade) were picked up by the police and carried off to the city jail. ' Here they were treated pleasantly but firmly and invited to spend the night at the city's expense. They were then placed on probation for 90 days and released.

The local papers had their usual front page field day (two front page stories in one paper and one in the other) and even added that age-old editorial bit about the sap rising in the saps' heads. We know it sells papers, but we think maybe some of that sap may have been driven upward by the constant play the press gives to this type of thing.

As we were going to press, it was announced that a few changes were being made in the Tech administrative structure in the name of economy. VP Emerson is retiring (because of age), and Dean Narmore's job is being held open. Replacing Dean Chapin will be Paul Weber. Chapin and Narmore will become Regent Professors and return to teaching. More about it next issue.

Bob Wallace, Jr.



# on the hill...



by Gordon Albury, Jr., '56

**D** ID YOU ever stop to think about this thing called *Tech*? Ever try to formulate a phrase or a sentence that would describe it adequately to someone, making it mean all things to another like yourself who has experienced it? Ever wonder what it is that makes *Tech* tick?

If you haven't then you can't really call yourself an alumnus of Tech. Because every man who has graduated from it feels an inward pride in having been a part of it for four years (speaking in terms of the published par, of course). You certainly can't feel pride in something you don't pretend to understand.

I suppose you start wondering about it before you ever arrive — before you begin that four-year fall migratory cycle to the *Flats* — and, as is usually the case, you find your first conclusions completely erroneous upon your arrival. Then, after your freshman year, you sum it up in the accepted limited vocabulary of the first-year man with one word, "Damn!" Expanding with your new-found power to comprehend and reason at the end of your sophomore year, you become quite loquacious and sum it up with, "It's Hell!" By the time the sun breaks through at the end of your third year of computations and calculations, you think you're ready — then and there — for your man-mantle. And you are quite convinced that *Tech* is nothing more than, "A mill, an engineering factory, period."

Then comes the day when you discover El Dorado and Atlantis — the day they hand you your diploma. And you become very didactic and eloquent with the intelligence of the ignorant, and you proclaim, "Tech is . . . well, it's Tech." And your classmates nod approval of this profound and graphic statement.

S TRANGELY enough, all the things that went to inspire these thoughts can still be found in this paradox of honesty and hypocrisy called *Tech*, with only the subtle changes that come with growth. So that the old alumni and the new alumni have the same basis for their feelings about *Alma Mammy*.

We still hold that "... we drink our whiskey clear," and the *Hill* still admonishes us to abstain.

We still are convinced that we have the sorriest *Cheers* of any college, but we yell them like banshees when the going is close on Grant Field.

We curse the Robbery's excuse for coffee and slosh it down by the gallon.

We vow a sacred oath never to thrash our way into the Post Office again . . . except every chance we get.

We still cast doubts on the Math Profs' ancestry, and then admit they taught us something when we pass.

The spirit of Engineers' Week: two potential engineers exhibit their interest and disbelief at the wonders of the telephone-television set-up in the EE section of this year's Hall of Engineering. This exhibit helped win second place for the EE's in the annual competition won this year by the IE's with an exhibit of materials handling and time and motion study. For the first time since 1951, the CE's failed to win the trophy as the Architects wound up in third place. And daily life still runs the gamut of emotions from the tragedy of a flunked quiz or an empty mail box to the quiet pleasure of a movie at the Fox, a hot shower on a cold night or the giddy joy of a responsive *date*.

And the different characters still abound on the campus. The football players looking slightly out of place, the yankees with their foreign accents losing the Civil War in the dorms, the key collectors and wheels whom nobody wants to be until the Blue Print goes to press, the brains who study like monks and graduate, the party boys who live it up to the hilt . . . and graduate, the guy who loves Classics and the guy who digs Jazz, the boy from your hometown whom you've never seen before . . . and the one you have seen but don't want to see again, the secretaries who stroll by and stop every eye, the eccentric Prof who sees bats or could never pronounce your name. They're all here. And they'll never leave. And they mean different things to each of us, yet the sum total is the same.

WHAT I'M trying to say is that you alumni are not so far away from Tech as you might imagine. You're just as close as the undergraduates. Maybe you're closer, because we're only now experiencing your memories. But the time will come . . . and, like you, we'll wonder how it came so fast . . . when we'll climb on the alumni Ramblin' Reck and have that bond of understanding when someone says, "T'm from Tech."

So now this column has some qualifications for being here in Bob Wallace's pride and joy. And you'll have good reason to peruse it now and then, because it's really about you. So don't go 'way . . . we'll be back.

Campbell



Vol. 33, No. 4 March, 1955

## From the Secretary's Desk

IT HAS become apparent to me in recent months that many of you are not at all familiar with our weekly placement service. It's this simple:

Each Monday, a list of available job opportunities is sent to all alumni who have indicated a need for it. The job descriptions (now averaging 90 to each weekly list), may read something like this:

> Mr. H. L. Smith, Personnel Manager Acme Instrument Co.
> 223 High Street
> Brooklyn, N. Y.
> ME, or any — experience necessary — Sales engineering job with SE ter.
> calling on industrial and jobber accts. for precision instrument Co.
> Car & exps. furnished. \$400 draw plus comm. Considerable travel.

The alumnus is instructed to write a brief letter of application to the person indicated on the list and send with it a qualification form with a photograph attached. (Qualification forms are available on request at the alumni office.) He should get a prompt reply to his letter, advising whether a personal interview is desirable or that his quallifications do not fit the company's present needs. If the alumnus happens to be in the same town as the company listed he merely calls for an interview appointment.

#### This service is absolutely free to both parties.

Last quarter over 600 alumni made use of this service, and, through it, many of them were able to locate suitable jobs. Approximately 900 jobs, calling for experienced and/ or inexperienced men, were available through the bulletin during this three-month period.

One of the best sources of personnel is the returning serviceman. Many of these men worked briefly before going into the service, but others held off accepting a position due to the short time between graduation and their call to active duty. The natural place for them to come for employment help when they get discharged is the alumni placement service. With about 65% of each graduating class going into the service, a large percentage using our service is made up of returning veterans.

The time will possibly come when you need to employ one or more promising young men — or an experienced older man in your firm. The Alumni Placement Service is at your disposal. We like to see Tech men hire Tech men. Call on us, anytime.

**Roane Beard** 





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#### **On the Cover**



Cover Photo - Hawkins

Student religious participation exemplified in the photo of Junior Co-op John Thompson Brown of Old Hickory, Tenn. reading the lesson at the evening services in Atlanta's All-Saints Church.

#### Officers of the Georgia Tech National Alumni Association

Dave Arnold, '18, Pres.	Eugene Smith, '27, VP.
Jack Glenn, '32, VP.	Paul Duke, '45, Treas.
W. Roane Beard, '40, Exec	utive Secretary

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# AUTOMATION

## and the Electronic Computing Machines

THE ADVENT of electronic computing machinery has heralded the birth of the age of automation, with its two facets — the automatic control of machinery and the rapid processing of data. This period in human history gives promise of the greatest achievements in every field of technical endeavor.

In the last decade we have witnessed tremendous advances in the application of automation to uses in science, engineering, business and industry.

*In science* — research problems which have been impossible or impractical before the development of the electronic computers now are undertaken successfully as a matter of routine.

*In engineering* — computing machinery now makes it possible to test designs under near-actual conditions in a matter of months. Without the computers, these same tests would require years at a fantastic expense.

*In business* — the use of high-speed computing machinery results in considerable savings in cost accounting, billing, inventory control and business management. As a result of these savings the consumer receives better service at a lower cost.

*In industry* — computing machinery furnishes automatic control, eliminates waste, improves marketing and distribution and results in better products at lower cost.

This article is condensed from The Research Engineer of January, 1955.

*In the military* — computers eliminate much paper work and help to keep inventory on the vast means of waging war.

A UTOMATION is not a new conception. The first so-called automatic factory was a flour mill built in 1873 by Oliver Evans. Its *automation* was strictly one of conveying equipment. Along with Eli Whitney's development of piece-part standardization and interchangeability for manufacturing muskets in 1789 and Henry Ford's adaptation — more than a century later — of packing house production-line techniques, Evans' flour mill was a forerunner of today's automation.

Nor is it a new concept to develop machines capable of automatically carrying out lengthy sequences of arithmetical operations and still have the design of the machine such that the computing sequence can be changed from problem to problem. The original idea for such a digital differentialequation solver — complete with means to print the answers — seems to have

by I. E. PERLIN

Professor of Mathematics and Research Associate, Dr. Perlin holds the BS and MS from Northwestern and the Ph.D. from Chicago. He has been at Tech since 1945 and is now connected with the Computer Center which opens this June.



occurred in 1812 to Charles Babbage, a professor of Mathematics at Cambridge University. The British government supported the construction of his *analytical engine* until 1833 when work was suspended. The project was finally abandoned in 1842.

The first large automatic digital machine actually completed was the IBM Sequence-Controlled Calculator developed jointly by Professor Howard Aiken and IBM. It was completed at Harvard's computation laboratories in 1944. It was similar in principle to Babbage's engine.

Following this development came the Bell Telephone Laboratories Relay Calculator and second machine built by Professor Aiken. Then ENAIC — the first computer to make use of electronic circuits — was developed for the Ballistics Research Laboratory at Aberdeen Proving Ground. ENAIC ushered in the era of high-speed computers.

 $\mathbf{I}_{N}$  ANY discussion of computers it is convenient to distinguish the two

classes of equipment for carrying out numerical computations — namely machines that work by mechanical means and those that work by electrical means.

The mechanical or analog machines translate numbers into physical quantities of which numbers are the measures. For example, they may translate numbers into lengths, voltages, angles, etc. These machines combine these physical quantities in various ways to perform the operations of multiplication, addition, etc. Finally by measuring some physical quantity, the machines obtain the required result. An example of such a computation is shown at the top of page 7.

Analog-type computers are useful in solving problems which can be reduced to an electrical analog. Examples of such equipment are the slide rule, the planimeter, the harmonic analyzer and the AC-Network analyzer which Tech's Engineering Experiment Station has employed in the study of electrical power systems for the past seven years.

On the other hand, digital computers operate with numbers in their digital form, usually by counting discrete electrical pulses. Examples of digital machines include desk calculators as well as the giant "electronic brains" capable of performing prodigious feats. Such scientific and data-processing equipment will be found in Tech's new Rich Electronic Computer Center. The two classes of computers have their advantages and disadvantages. An analog is restricted to a rather narrow range of applications. Furthermore, it is limited by the mechanical and electrical accuracy of its components and by the attainable accuracy of physical measurement of the result. On the other hand, it is possible to deal with continuously varying, as well as discrete, data.

A digital machine can handle numbers expressed in digital form only to a finite number of significant figures. It cannot deal with continuously varying data or continuous processes. But such a machine can be designed to work without difficulty to any prescribed degree of accuracy. It is not necessary for any component to be constructed or any measurement to be made to unreasonable limits of accuracy. Furthermore, digital computers can be used for general purpose applications.

HE FOUR basic parts of a digital computer are the input-output unit, the storage or memory device, the arithmetic unit and the control unit. These are shown in the block diagram at the bottom of this page.

The numbers and the numerical code for the computing steps comprise what is known as the program. The beginning and end of the computing prob-





A computation that can be performed by an analog device. A product, xy, may be evaluated by adjusting the rod to correspond to the value x inches, then rotating the rod through the angle o of y radians, and measuring arc s in inches. Analog devices include AC Network Analyzers such as the one now in use at Tech.

lem both come in the input-output unit, for it is there that the program is read into the computer, and the answers are read out or printed in usable form. The steps in between are performed by the storage or memory device, which holds pertinent information in a large number of storage registers; the control unit, which translates the operation codes as well as sequences the computing steps; and the arithmetic unit, which performs arithmetic operations.

There are many types of input devices through which the machine may receive data. They vary from *modified electric typewriters*, which operate at two to ten characters per second to *magnetic tapes and wires*, which may operate at rates up to 10,000 characters per second.

The output devices, which may or may not be similar to the input devices, vary from the *modified electric typewriters* to *cathode ray tubes*, which displays photographically a record of the results.

The memory devices may also be of various types from a *Williams tube*, in which a binary digit is stored as a charged spot on an insulator inside a cathode ray tube to *magnetic tape*, in which a digit is stored as a magnetized spot on the tape.

H<sub>IGH-SPEED</sub> electronic computers have been used since about 1945 to solve scientific and engineering problems of an infinite variety and an almost incredible complexity. Computers are now being utilized in atomic energy studies, guided missile investigations, weather analyses and forecasting, aerodynamical studies, structural analyses, heat transfer studies and other investigations in the fields of mathematics, physics, chemistry and statistics.

More on Page 8

#### COMPUTERS . . .

#### Continued

A case in point of the use of effective computing machines is in the problem of steady state alternating network analysis, in which the circuit characteristics and the alternating voltages applied in each loop of the network are known. It is required to determine the current flow and the power distribution. By solving this problem for various sets of circuit characteristics, the engineer can determine the circuit characteristics which yield a satisfactory power distribution. This problem requires the solution of n equations in n unknowns in the general case.

In the past, engineers have found it simpler to construct the network on a small scale, with variable elements, and observe its behavior rather than solve the equations. Today, this problem is set up for solution on digital computers with substantial savings in time and money.

IN BUSINESS, a wide range of organizations today uses electronic computers in the study and analysis of information as well as in payroll processing, cost accounting, budgeting and production control. Examples of data-processing uses of computers by typical organizations include the following:

*Insurance companies* use electronic computers in calculating actuarial tables preparing reports for management, maintaining policy files, etc.

Department stores and mail - order houses utilize electronic computers in keeping accurate, up-to-the-minute inventories.

*Traffic control systems* utilize computers as efficient central data-processors and coordinators to aid in the control of air or vehicular traffic.

Airlines and railroads use computers in the automatic handling of reservations, efficient scheduling of planes, trains and crews, and in keeping inventories of railroad cars for cross-billing purposes. *Direct-mail organizations*, such as large weekly magazines and daily newspapers, newsletter publishers and directmail advertisers, use computers for automatic mailing. The mailing files are kept up-to-date with additions, deletions, changes in address, etc., easily made on magnetic tapes with no waste effort or material and with economy of storage space.

Government agencies utilize high-speed computers in many ways. In fact, the Bureau of Census, the Bureau of Internal Revenue and the Social Security Administration pioneered in this field. An interesting example of one governmental agency's use of computers was a job recently completed by the Bureau of Ships. When the new Uniformed Services Survivors' Benefit Law was enacted by the 83rd Congress, it became necessary immediately to prepare actuarial tables for this program. Using conventional desk calculation methods would have required an estimated 40,-000 man-hours, at a cost of \$200,000. With the computer, the Bureau completed the work in only 1433 manhours at a cost of only \$15,000.

The mass media of television, radio, and newspapers, use computers to tabulate and predict election results. Millions of persons first became acquainted with computers on election night when the Columbia Broadcasting System first used UNIVAC in this manner. On the basis of scant, early returns - information that was fed into the computer by its human operators - it forecast at 8:30 P.M. that Eisenhower would win. The prediction was within four electoral votes and about a million popular votes of the final outcome. Again, in the election of 1954, the same network used the same electronic brain. with somewhat less success. In this case, what was reported to be human error, caused the wrong figures to be broadcast. In 1954, the first effort was made to combine voting machines and computers, so that official results might be available minutes after the polls are closed. Thus, in the future, computers may become - literally - instruments of democracy.

ELECTRONIC computing machinery has made possible automatic production, automatic handling and automatic control of other machinery. On today's American industrial scene there are many examples of this so-called *auto*matic factory.

One of the best examples is the sprawling \$1.3 billion atomic energy plant on the Savannah River. The chief engineer of the company which built the plant said recently that it was as nearly robot-run as was possible today. "The tremendous potential energy within the atom must be released so gradually," he said, "that human operation would scarcely be sensitive enough to exercise control." Consequently the operating company utilizes automation to monitor and control every phase of production, making the plant not only automatic but semiperpetual, too.

In the case of a large automobile company, the automatic-factory concept is used in one engine manufacturing plant to link 42 separate transfer machines into what might be called one gigantic transfer machine. Automatic

devices correctly position the workpiece, a 180-pound cylinder block casting, for each successive machining operation. From the time the cylinder block is deposited at the entrance end until it emerges - after 555 cutting and drilling operations - it is never touched by man. Automatically it has traveled through more than an acre of machinery, its quality has been thoroughly inspected and it is ready for assembly. This gigantic machine produces 100 pieces per hour. And any one of its five sections can be shut down for a tool change or minor adjustment while the others keep on producing. If necessary, production in the closed section can be caught up during a lunch hour or extra shift.

A jet engine manufacturer utilizes a new boring machine for stator housings to operate 55 high-speed carbide tools. Automatically — and at a cost of only 90 cents — it performs an operation which used to take many manhours and cost \$1200. It also condenses, into 20 square feet, a plant which used to occupy 20 acres. And, it replaces \$52 million worth of machinery with automatic equipment costing only \$250,000.

Another example is a midwestern railroad that installed in its switching yards an electronic freight-car switcher and coupler which is expected to save millions of dollars in rolling-equipment maintenance and freight-damage claims. The electronic yardmaster measures the speed of a freight car. brakes its velocity and eases the car onto a selected track, where it gently bumps a coupling. Railroaders call it *push-button railroading*.

THE AGE of automation is here, and certain trends are clearly evident. Many kinds of scientific and engineering laboratories cannot keep pace without research computers. Certain kinds of businesses and factories cannot compete without automatic machinery.

Research on computers constantly is improving them. The high-speed devices of the future will be much smaller due to the use of transistors. With the development of printed circuits and better materials, the cost of such machinery will be reduced considerably. The development of automatic programming — in which the computer prepares its own program — will relieve the human operating staffs of the many weeks of program preparation now required for each hour of computation.

The automatic factory and the automatic office are not visions seen in the distant future. They are realities today.

## **RELIGION ON THE CAMPUS**

In Atlanta's All-Saints Episcopal Church, the Canterbury Club, made up of Tech boys and Agnes Scott girls, holds its weekly meeting.



Ash Wednesday services at Tech's Newman Club's house on campus. Here, Tech's Catholic boys come for meetings and special services.



## Today's Reck is a long way from the fabled one

The GREAT revival of religious interest that has been building up in this country since World War II has been mirrored by the American college student's increased participation in campus and off-campus religious activities. Today, this participation is at an all-time high among Georgia Tech students. Practically the entire Tech student body has affiliation with some church with only 118 boys out of 4680 not listing his denomination on the registration forms this past fall. The atheistic scoffer who was a fad of the 20's would find it rough going on today's Tech campus. For as one student so aptly put it, "Today's college student is finally ridding himself of one of the oldest of phobias — the fear of appearing as good as he really is." The following pages will try to prove this to you.



#### **Religion on the Campus**

Continued

### THE PRACTICAL METHOD

O<sup>NE</sup> OF THE reasons for the Tech student's increased participation in these activities in recent years is the increased interest that the churches have shown in the students. Until five years ago, no church owned property on the campus. Today, four churches own houses on the campus — two of them staffed by fulltime men. These houses along with the YMCA — long-time major Christian influence on the campus — are the focal points of campus religious activities. Here are held prayer meetings, services, discussion groups and recreational activities during the school year. And here is stressed practical Christianity — love, respect and service to your fellow men.

The new campus fad, three-dimensional Tic-Tac-Toe occupies a group at the Wesley Foundation house on the campus.



Just plain conversation with this Scott girl is recreational choice of another group at the Wesley fifth birthday party.

An expression of disbelief crosses the girl's face as her partner plays the wrong card at bridge at the Wesley House.





Two jitterbuggers look all the world like a curtsying Virginia Reel couple at the YMCA-sponsored Saturday dance.

Food is always of interest at these parties as the YMCA's Carlton Parker shows at the Y's Tech-Scott dance.





And a Scott girl pays the traditional female price for the meal — washing the dishes. The Tech boy gallantly helps.

Baptist Student Union director, Warren Woolf, '49, pauses in his greeting chores as the evening prayer service begins.



No matter how hard you try to see that everyone has a good time, there always seems to be a lonely wallflower or two.





#### Religion on the Campus - Continued

EVERY SUNDAY MORNING NORTH AVENUE BECOMES A THOROUGHFARE FOR THE RECKS ON THEIR WAY TO CHURCH SERVICES





#### THEN EVERY SUNDAY ...

**O**<sup>N</sup> SUNDAYS, the Tech students attend their own churches scattered throughout the city. Here they teach Sunday School, sing in choirs, lead youth groups as well as take part in the normal services of the churches. The Tech man's influence in the churches of the City of Atlanta can be seen by this favorite campus story.

Back in 1946, the Naval Commandant got provoked about the Navy men coming to classes late. He confined all of them to quarters on a weekend. That Sunday morning, he was deluged by phone calls from the local churches protesting this action. The Catholics even came over and held Mass in the Tech gym that day. No one ever tried it again.

WHERE THEY MAY, LIKE JOHN HUNSINGER, TEACH YOUTH CLASSES . . .



OR WHERE THEY ARE JUST A PART OF THE CHURCH'S CONGREGATION

OR SING IN A YOUTH CHOIR SUCH AS THE ONE AT FIRST METHODIST



1

## T GAME SET FOR APRIL 22

Squad minus 18 lettermen starts spring drills on March 28 as rough season looms

THE 1955 edition of the Tech Yellow I Jackets will open up their spring practice grind on Monday afternoon, March 28. The short conditioning drills will be climaxed by the annual T-Night game on Friday night, April 22. The Greater Atlanta Georgia Tech Club will again sponsor the ticket sales for the Spring game.

ENDS - here hinges the season. Gone are the first four ends from last season's squad. Only Huff and Don Ellis of the candidates have any important game time.

TACKLES - Last year's question mark becomes one of this year's strong points as Anderson, Vereen, Christy all came through last year.

GUARDS — Another solid position with the best pair of starters in the SEC — Brooks and Fulcher. Help will come from Allen Ecker and Don Miller, who looked better with each game last season.

CENTER - The third Morris (Jimmy) to be a Tech Captain in the past four years mans this position on the first team. But back of him things are not too promising. Lack of experienced men may force heavy use of some of last year's freshmen stars. Look for a switch of an experienced lineman to this spot.

QUARTERBACKS - Wade Mitchell's back with two years under his belt. He was really looking great at the end of last season and should blossom out as one of the best in Tech's history this season.

HALFBACKS — No doubt about these slots, here Tech is loaded. Last year's starters Rotenberry and Menger are back along with the best substitute in the business, Jimmy Thompson and great climax runner, George Volkert. On top of that there's freshman sensation Stan Flowers, one of Tech's mosttalked-about first-year men and Joe Delaney, who can do a great job offensively and defensively. And don't forget Jimmy Noe, another freshman star of last year. Look for a shift of one of the experienced halfbacks to fullback. FULLBACK — another worry point for the coaching staff. Top boys from last year, Hunsinger and Humphreys, are graduated. Mattison and Owen back from last year and freshman Thomason will be a definite candidate.

## talk

about

tech

THIS HAS been a great year for athl letics at Georgia Tech and I am hoping our success will continue with the Spring sports.

We started out with football, winning the Cotton Bowl game at Dallas after placing second in the Southeastern Conference during the regular season. Coach George Griffin's team won the Southeastern Conference Cross Country Championship. Our basketball team, under the able direction of Coach Whack Hyder, was the only squad in the nation to defeat a great Kentucky team while compiling a 7-7 record to finish sixth in the conference. Coach Fred Lanoue's squad then added to these fine showings by finishing third in the SEC swimming meet.

That is a good pace for the season to date and things look just about as bright for our Spring sports program.

Coach Joe Pittard has lost only one man, Charlie Brannon, from the 1954 baseball squad which won 9, lost 13 and tied 1. With added experience for his entire squad, and the addition of a few promising men, he is hoping to have one of Tech's best seasons in many years on the diamond.

Coach Hubert Dennison reports that the golf team will again be manned by experienced players but he will have a tough time improving on last year's 7 wins against only two defeats. The Yellow Jacket golfers were fifth in the SEC tournament last Spring.

The Georgia tech tennis squad, which finished fifth in the conference in 1954 after a regular season 8 and 6 mark, should also be improved as should the Track squad which took sixth place in the conference meet last year. Earle Bortell will again be directing the tennis team and Coach Norris Dean the harriers.

#### Football Tickets

Football ticket applications will be mailed a month early this year. Athletic Association plans are for a firstweek-of-April mailing this season, according to Howard Ector, AA business manager.

If you don't get your application by the 20th of April. drop a line to THE ALUMNUS, and we'll get them to you.

**By Coach Bobby Dodd** 

#### **BACK TO BASKETBALL**

So much for our pocket-sized view of the 1954-1955 season, past and future. Now let's look once again at the fine job our basketball team did for us this year.

Coach Hyder and each member of his squad is to be commended, not only for the actual games they won and lost, but also for the manner in which they played them. The Jackets, with only one Senior on the squad (reserve Howie Snead), had their poor nights as might be expected, but these were greatly overshadowed by their good ones. I've spoken before, and many reams of copy have been written by others, about Tech's two victories over Kentucky. But we shouldn't overlook other great wins like the 69-67 triumph over Idaho State, who, as this is being written, is playing in the NCAA National Collegiate championships; the 79-72 victory over Louisiana State in overtime after being behind 15 points with only seven minutes of the game remaining; and the fine 83-77 win over a very good Tennessee Quintet.

It was at the Tennessee game that a remark was made by a visiting official of another SEC school that effectively described Tech's basketball efforts and reputation around the circuit for the season.

"That is the scrappingest bunch of boys I have ever seen on a basketball court," he declared during the halftime intermission when Tech was leading the favored Vols 46-39. "They've got some ability but still I'd say they symbolize the heights a team can reach through great desire."

We are all proud of our 1955 basketball team and know with 10 of the 11man varsity squad returning, we'll be even prouder of them next season.



#### SPORTS

## Spring Sports' Outlook Good

#### **RETURNING LETTERMEN BOLSTER ALL FOUR** TECH SPRING SQUADS FOR PULL AHEAD

 $W_{roturns}^{ITH A}$  solid nucleus of veterans returning in each of Tech's four spring sports, the 1955 season bids to be the best in the recent history of the Flats. A rundown of the individual sport programs would go something like this:

#### BASEBALL

Coach Poe Pittard's nine faces a very tough 25-game slate with only shortstop Charlie Brannon missing from last year's starters. Back are Bill Cohen on first, Bobby McCauley and Grey Potter to split second-base chores, Lane Akers at short, Johnny Menger at third and Toppy Vann set at catcher. The outfield returns intact with Larry Morris, Bobby Dover, Vince Terry and Mc-Cauley splitting the chores. Heading an experienced pitching staff will be Bob Patton, who closed out the '54 season with a 6-2 record.

#### GOLF

Tech's '55 golf team promises to make Coach H. E. Denison's last season a happy one. Easing the pain of retirement for one of Tech's most successful part-time coaches will be Ned Edge, George Johnson, John Maddox, Lynwood Johnson, Carter Terrell and Henry Tooten from last year's surprise team which finished with a 7-2 record.

#### TENNIS

Coach Earle "Shorty" Bortell lost his No. 1 and 2 men by graduation but still returns a good squad in Earle, Jr., Jack Heisel, Sammy Van Leer and Lee Jones with varsity experience. Help will come from transfers Mike Tierney and Nelson Arrington plus last year's ineligible Rod Lee. The team shapes up as good or better than the '54 model yet may have a hard time bettering the 10-6 record of last year. The competition is also getting tougher.

#### TRACK

Sensational shot and discus man Carl Vereen heads an improved Tech track team. The big Miamian has already won the ACC meet in Chapel Hill and stands to be the top man in the SEC in his specialties. Frank Rust, experienced hurdler, was a surprise broad jump winner at Chapel Hill and will now do double duty. The team again will be an improved one but will have trouble bettering last year's record.

Tech hurdler Frank Rust, who was a surprise winner in the broad jump at Chapel Hill, will pull double duty for the Jackets.

#### TECH'S DREAM TEAMS PICKED BY ALUMNI

NIFTY-FOUR Tech stars, whose football-playing days spanned the years from 1909 Hirty-rough 1954, were nominated by Tech alumni in the Georgia Tech Alumnus poll to select an All-Time Tech team. High vote-getter in the poll was tackle-end Bill Fincher of the 1916-1920 teams. Doug Wycoff (1923-25) led the backs in votes.

In addition to selecting an All-Time team, the Tech alumni voted for a Modern team considering only the players of the 1945-54 era. Leon Hardeman garnered the most votes for this team. Odd feature of the voting was the deadlock for the center position on the *Modern* team between the Morris boys — George and Larry. In the voting for the All-Time team, George edged Larry by a small 3-vote margin.

#### All-Time Team

$\boldsymbol{E}$	Bob Ison	1939
$\boldsymbol{E}$	Bill Jordan	1937
T	Bill Fincher	1920
T	Bob Davis	1947
G	Bill Healy	1947
G	Ray Beck	1951
C	George Morris	1952
$\boldsymbol{B}$	Doug Wycoff	1925
B	Buck Flowers	1920
B	Joe Guyon	1918
$\boldsymbol{B}$	Everett Strupper (tie)	1917
$\boldsymbol{B}$	Clint Castleberry (tie)	1942

Golf

Baseball

Mar. 21 - FSU

Mar. 21 -

Mar. 22 Mar. 23

Mar. 24

Mar. 25

Mar. 26

Mar. 30

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6

 $\frac{11}{12}$ 

Apr. 16 -Apr. 18 -

Apr. 19 — Apr. 22 —

 $\frac{22}{23}$  —

Apr.

Apr. Apr.

Apr.

Apr. Apr. 9

Apr. Apr. 15 -

Apr.

Apr. 29

Mar. 21 — FSU Mar. 22 — Florida Apr. 1 — Tennessee Apr. 9 — Auburn Apr. 11 — Florida Apr. 16 — Vanderbilt Apr. 23 — Georgia May 4, 5, 6 — SEC Tourney May 14 — Tennessee May 17 — Georgia

Stetson

– Stetson – Stetson – Rollins Ohio State

North Carolina Florida

Florida

Mercer

Auburn

Auburn Mercer

Kentucky

Kentucky

Florida Florida

Clemson

Clemson Auburn

Auburn Georgia

Georgia

- Kentucky

#### Modern Team

E	Henry Hair	1954
E	George Brodnax	1947
T	Bob Davis	1947
Т	Hal Miller	1952
G	Bill Healy	1947
G	Ray Beck	1951
С	George Morris (tie)	1952
С	Larry Morris (tie)	1954
В	Leon Hardeman	1952
В	George Mathews	1947
В	Frank Broyles	1946
В	Glenn Turner	1952

#### THE SPRING SCHEDULES

Away

Away Home

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(Winter Park, Fla.) (Winter Park Fla.)

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May	6 — Georgia								ċ		 					Home
May	7 — Georgia	-0		÷	÷,	4	5	÷	•	4./.					×	Home

#### Track

Mar.	26 — Florida Relays	. Gainesville
Apr.	2 — Southern Relays	Birmingham
Apr.	9 — Florida	Home
Apr.	16 — Miami	Away
Apr.	23 — Georgia & FSU	Home
May	7 — Auburn	Away
May	14 — Alabama	Away
May	21 — SEC Meet	Birmingham
May	28 — Georgia AAU Meet	Home

#### Tennis

Mar. 12 — Augusta Country ClubHomeMar. 24 — Jacksonville NASAwayMar. 25 — FloridaAwayMar. 26 — Florida StateAwayMar. 26 — GorgiaHomeApr. 6 — MichiganHomeApr. 6 — MichiganHomeApr. 7 — VanderbiltHomeApr. 15 — Pensacola NavyHomeApr. 15 — Pensacola NavyHomeApr. 19 — Florida StateHomeApr. 19 — Florida StateHomeApr. 10 — TenseseeAwayApr. 23 — AuburnHomeMay 4 — GeorgiaAwayMay 5 — EmoryAwayMay 9 — TennesseeHomeMay 5 — TennesseeAwayMay 5 — TennesseeHomeMay 5 — TennesseeHomeMay 5 — TennesseeHomeMay 5 — TennesseeHomeMay 10 — TennesseeHomeMay 11 — LSUMaya	ICIIIIS	
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	May 11 LSU	Away
May 12, 13, 14 - SEC Meet New Orleans	May 12, 13, 14 - SEC Meet New Or	leans

# with the clubs...

<u>Kingsport, Tenn.</u>...Dean George Griffin and Research Institute VP Dewitt Redgrave were the guest speakers at the Feb. 24 dinner-meeting of the Kingsport Georgia Tech Club. Dean Griffin entertained the crowd of 47 with some of his famous tales of Recks of yesteryear. While, in a more serious vein, Capt. Redgrave spoke on Research at Tech and the new Rich Computer Center.



Tech's new sound-color movie, "The Expanding Frontier," and the football "Highlights of '54" were shown to the group to round out the program presided over by President Bill McMillan, '48.

<u>Beard and Ector in the Deep South</u>...Alumni Secretary Roane Beard, '40, and Athletic Association Business Manager Howard Ector, '40, embarked on a trip into Mississippi and Louisiana in early February to visit some Tech clubs in those areas. Carrying two Tech movies, "The Expanding Frontier" and "Highlights of '54" as part of an entertainment package, the two Tech notables visited four clubs in five days.

The first stop on the schedule was Jackson, Mississippi where thirty members of the <u>Georgia Tech Club of Mississippi</u> turned out to hear them talk about Tech. The meeting was presided over by Gene Drummond, '12, who warmed up the crowd with a treatise on his five years as president of this club. Officers elected to succeed Gene and Dave Gammill were R. Sims Munford, '34, president; Millard Hubbard, '35, vice-president, and Raymond Craig, Jr., '49, secretarytreasurer.

The following evening the travelers were the guests of honor at a dinner-meeting of the Shreveport Georgia Tech Club where Lawton Stevens, '20, presided over the festivities. During the business meeting J. C. Griffith, '25, was elected to succeed Mr. Stevens. Other new officers of the club include Hal Edge, '43, vice-president, and Charles Moreton, '50, secretary-treasurer. On Feb. 14, Howard and Roane were joined by Tech basketball coach Whack Hyder and Athletic Association publicity director Ned West as they met with the New Orleans\_Club at Arnauds at noon. Coach Hyder was presented with the keys to the city of New Orleans along with a citation from Mayor Morrison in honor of Tech's twin victories over Kentucky. James C. Ryan, '37, presided at the Feb. 15 meeting in the absence of president Freddie Fuchs, '36. The final meeting on the trip was an organizational one at Baton Rouge, La., where 53 Tech men turned out to hear the travelers. James Galey, '48, who with George Anton, '49, and Robert Templeton, '52, organized the meeting, acted as temporary chairman until he was elected as the first president of the club. Other officers elected included W. Harry Cash, '24, vice-president; Weller Phillips, '43, vice-president; Charles B. Moore, '47, secretary and Robert Templeton, treasurer.

<u>Research Meeting for Atlanta Club...</u> Two outstanding Tech researchers spoke on their specialties at the Feb. 24 meeting of the Greater Atlanta Georgia Tech Club. Dr. I. E. Perlin discussed the "Plans, History and Operations of the Rich Computer Center," while Dr. Earl McDaniel spoke on the Atomic Clock and Nuclear Physics. 85 members of the club turned out for the meeting which also featured the "Highlights of '54." Mack Gibbs, '39, gave a report of the scholarship committee which stated that a number of applications had already been received for the club's three scholarships for next year. Bob Ison, '40, and Dan Kyker, '46, outlined the plans for the club's sale of tickets to the Spring "T" game. And members R. A. Siegel, '36, Bob Wardle, '34, and Frank Zeigler, '49, were selected as the nominating committee to select the slate of officers for the next meeting's vote.

<u>Big Night in Gainesville...</u> Over 100 members of the Georgia Tech Club of Northeast Georgia turned out to hear guest speaker Bob Bossons of the Tech coaching staff speak on "Athletics at Tech" at the Feb. 28th meeting held in Gainesville. New officers elected at the meeting presided over by retiring president George Haymans, '.., included Charles R. Simons, '37, president; Charles R. Frierson, '50, vice-president, and Ed Cook, '.., secretarytreasurer. Special guests included Coach and Mrs. Joe Pittard; Mrs. Bob Bossons, Alumni

Special guests included Coach and Mrs. Joe Pittard; Mrs. Bob Bossons, Alumni Secretary and Mrs. Roane Beard; Larry Morris; James M. Morris, Paul Rotenberry and Athens' officers and their wives, including President Jim McLemore and Vice-President Butch Bethea.

<u>Club Meetings in the Future</u>.... Special meetings of several Georgia Tech Clubs are scheduled in March, April and May. On March 30, Dean George Griffin will visit the Oak Ridge, Tenn. Club. On April 20, the Columbus Club meets with President Van Leer scheduled as feature speaker. The President will also address the Birmingham Club on May 20. And Coach Dodd is scheduled (tentatively) for a May 19 appearance in Macon. The Greater Atlanta Club meets in late April with the tentative date slated as April 20.



We buy, sell, rent and exchange Electrical Equipment. We rewind and rebuild Electric Motors, Generators, Transformers, Armatures and all kinds of Electrical Apparatus to Factory specifications. WE ARE STOCKING DISTRIBUTORS FOR GE WIRE CABLE. CONDUIT. FITTINGS AND GENERAL ELECTRIC MOTORS. TRANSFORMERS AND CONTROLS ALLIS-CHALMERS TEXROPE DRIVES HARRINGTON COMPANY PEERLESS HOISTS SYLVANIA FLUORESCENT FIXTURES ECONOMY FUSES - LAMPS AND ACCESSORIES HUNTER CENTURY FANS - OHIO CARBON BRUSHES ALL TYPES OF WIRING DEVICES AND MATERIALS

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Raleigh, N. C. – Home Office

Richmond, Va.

17



**'07** Jesse Draper was recently named president of the Atlanta Boys Club, Inc. Mr. Draper, who was one of the co-founders of the club, will function as executive head of the organization, which has five branches and 2,647 members.

**'13** Aristus Jackson Philips, ME, died January 14, 1955. He was Dean Emeritus of Andrew College in Cuthbert, Ga., and was in his 35th term as a member of the faculty, instructing science and mathematics.

**'22** Edward V. Wallace, EE, formerly of Atlanta, has joined personnel relation department of the American Telephone and Telegraph Company in New York City. He has been with the company since 1923.

**'23** MARRIED: William Byron Cohen, Com., to Miss Phyllis Ruth Marks, February 5, in Louisville, Ky. Mr. Cohen's business address is 1603 Kentucky Home Building, Louisville, Ky.

Ernest W. Harwell, ME, has been named president of Nottingham Steel Company, Cleveland, Ohio. He was formerly president of The Hamilton Steel Co. Mr. Harwell is a director of Bearings, Inc., a member of the American Steel Warehouse Assoc., AIS Inst., Director of the National Assoc. of Aluminum Distributors and is active in civic activities. His business address is 4510 Division Ave., Cleveland, Ohio.

**'26** John D. Green, general manager of the yarn spinning plants at P. H. Hanes Knitting Co., Hanes, N. C., has been named vice-president and a director of the company. He is currently president of the Winston-Salem Georgia Tech Club. His home address is 715 Arbor Rd., Winston-Salem, N. C.

Col. John W. McDonald, CS, recently arrived in Metz, France, and is commanding officer of the Quartermaster Depot. His permanent mailing address is 366 So. Howard St., S. E., Atlanta, Ga.

**'28** *T. Richard Foster*, CE, has been named district manager of the new Atlanta office of Clark Brothers Co. of New York. The company produces heavy duty engines, compressors and gas turbines. Mr. Foster joined Clark Bros. in 1945. His new business address is 685 W. Peachtree St., Atlanta.

'32 Richard Albert Hills, CS, Atlanta insurance broker, died January 26 of a heart

attack. He was associated with the Aetna Life Ins. Co. and also conducted his own business under the name of Hills Ins. Agency. Mr. Hills was active in many civic and social organizations in Atlanta. Survivors include his wife, Mrs. Doris Hills, 416 Mimosa Dr., Decatur; sons, Richard A., Jr., and Thomas D. Hills; mother, Mrs. A. L. Hills, and several brothers and sisters.

G. V. Schliestett, AE, chairman of the U. S. Navy Bureau of Ordnance Hydroballistics Advisory Committee, has been selected to head the research program in water-entry ballistics and hydrodynamics at the U. S. Navy Ordnance Test Station, Pasadena, Calif. He and his family live at 1115 Hastings Ranch Dr., Pasadena, Calif. **'33** William K. Jackson, Jr., GS, packaging service division manager for Union Bag & Paper Corp., died unexpectedly in New York City, January 25. He was with the company at Savannah before World War II, later moving to their Hudson Falls, N. Y., plant. He had been with the company for 19 years. Survivors include his wife, Mrs. Ruth Horne Jackson; sons, James R., Robert E., William K. III, and Michael F. Jackson, all of New York; daughter, Margaret, also of New York, and mother, Mrs. William K. Jackson, Sr., of 205 George Walton Apts., Augusta, Ga.

*Col. Henry H. McLauchin*, executive officer of the 4th Anti-Aircraft Artillery Group, Alaska, recently received a promotion to his present rank.

William R. Weems, AE, has been appointed professor at Seoul National University in Korea. He will represent the University of Minnesota in the development of an engineering and technological program under a contract between Minnesota and the Foreign Office Administration. Prof. Weems was born in Sougdo, Korea. Upon the completion of his work in Korea, he will return to MIT, where he is associate professor of A.E. and industrial liaison officer between the Institute and selected industrial corporations.

**'35** James T. Hendricks, CE, is now employed by Uhl, Hall and Rich of Boston, Mass., who are the engineers for the New York Power Authority on the power development of the St. Lawrence River. The project, one of the nation's largest, is scheduled for completion by December, 1959. Mr. Hendricks' new address is P. O. Box 21, Massena, N. Y.

'39 R. Carl Chandler, vice president of the Union Bag and Paper Corp., N. Y. City, has been elected to the A. G. Spalding and Bros. Board of Directors. He also serves on the Board of Directors of the Hawkins Container Co., Standard Packaging Co., American Tractor Corp., National Paperboard Association and several others. Presently, Mr. Chandler is a Lt. Col. Aide-de-Camp, Governor's Staff, State of Georgia. His home address is 283 Hartshorn Dr., Short Hills, N. J.

Dana L. Kilcrease, EE, has been promoted to manager of production engineering and technical services at IBM's Poughkeepsie's Research Laboratories. He has been with the company since graduation.

**'40** BORN TO: Jack G. Gaines, Ch.E., and Mrs. Gaines, a son, Mark Bradford, Sept. 25, in Prairie Village, Kansas. Mr. Gaines is Sales Manager for the Gaines Co.

John Jay Hopkins, chairman and president of General Dynamics Corp., builder of the world's first atomic-propelled vessel, the submarine U.S.S. Nautilus, will be the 1955 commencement speaker at Tech. It is expected that the California native's address will include a discussion of his plan for development of international atomic energy under American industrial leadership that has received nationwide support from industrialists and businessmen this year.

**'41** George H. Graham, Ch.E., died this past February in Wilmington, Del., where he was employed by the DuPont Co. Survivors include his wife and daughter, Mimi, of 14 Boulder Brook Dr., Wilmington, Del., and brother, Harold E. Graham of Atlanta.

**'43** Frank Robin (Bobby) Adair, IM, died February 7 at Washington, Ga. At the time of his death he was district sales manager of the Westinghouse Lamp Division at Philadelphia, Pa. Mr. Adair was captain of the golf team at Tech in 1942 and was a member of the Illuminating Engineering Society and Sigma Alpha Epsilon. Survivors include his wife, the former Elizabeth Mason; sons, Robin DeWitt and Charles Edward; one brother. Dr. Charles Adair of Washington, Ga.

Harold J. von Hasseln, ME, has been promoted to the position of engineering section head for support equipment in the Systems and Flight Test Engineering Dept. at Sperry Gyroscope Co., Great Neck, L. I., N. Y.

Robert E. Mills, CE, recently completed an advanced training course in modern sales techniques at Johns-Manville Training Center. Manville, N. J. He is a sales representative for the company's Building Products Division at Philadelphia. Mr. Mills lives at 436 No. Church St., West Chester, Pa.

MARRIED: Antonio Navarro y Perez Zuazo, Ch.E., to Miss Avis Hedges, December 28 in Havana. Mr. Navarro is assistant to the president of the Gulf Atlantic Sugar Co. in Havana. ENGAGED: Paul H. Smith, Jr., to Miss Martha Olliff Horkan. The wedding will take place in early spring. Mr. Smith's business address is Paul Smith Construction Co., Tampa, Fla.

**'45** BORN TO: Clayton H. Griffin, EE, and Mrs. Griffin, a daughter, Lela Eugenia, January 25. Their home address is 306 Ardmore Cir., N. W., Atlanta, Ga.

**'46** BORN TO: Howard H. McCall III, IM, and Mrs. McCall, a daughter, Candace Jane, Jan. 26. Mr. McCall is with the J. O. Ross Engineering Co. His address is 3182 Peachtree Rd., Atlanta.

James G. Winnette, EE, has been named manager of the Peoria district of Allis-Chalmers general machinery division. Prior to his recent appointment, he was with the company's Milwaukee district office.



THE GEORGIA TECH ALUMNUS

The College Inn Page

For the Tech football fan, the perfect anytime gift—a personally autographed copy of Coach Dodd's

new book about the style of football that has made Tech famous throughout the country. A highly-

technical, yet easy-to-read volume that is handsomely illustrated with shots of Tech footballers in action.<sup>4</sup> \$4.50 each plus \$.25 to cover tax, postage and

A Distinguished Tech Gift Item, solid brass door

knocker with the official seal of Georgia Tech attached. Features a space for your nameplate (the manufacturer will send you a personal nameplate free on request).

handling - total cost to you - \$4.75.

\$15.00 postpaid.



The Best Tech Mug, this fine china mug is a real useful decorator's item. School seal, school name and bands in gold. Your choice of white or black. \$3.25 each.





A Deluxe Tech Gift, a solid walnut musical cigarette case. Open it and the fine Swiss music movement plays "Rambling Wreck." Naturally finished with Tech seal in silver, this fine case holds 25 cigarettes. Only \$10.75 postpaid.



All the Tech favorites in one 78 RPM album. Ramblin' Reck, the Alma Mater, Up With the White and Gold and others performed superbly by the Tech Band and Glee Club. Packaged in an attractive album with a gold color scheme, only \$3.60.



No.	Item		No.	ltem	
	DOOR KNOCKER		-	RAMBLIN' 'RECK ALBUM (\$10.75)	
	(\$15.00 each)			TECH MUG (\$3.25 each)	
	MUSICAL CASE \$10.75			BOBBY DODD'S BOOK (\$4.75 each)	
enclose my c	heck for	to cover the above items			
Jame		bbA	ress		

'47 BORN TO: Ellis Peak, Jr., Ch.E., and Mrs. Peak, a son, Richard Howard, Jr., Nov.

22. Their address is 4693 Hyaceinth, Baton Rouge, La.

ENGAGED: Thomas Willingham Tift, Jr., to Miss Clair Hardwick. The wedding will take place April 20 in Atlanta. Mr. Tift is associated with the Piedmont Cotton Mills in East Point, Ga.

**'48** BORN TO: Herbert E. Boss, ME, and Mrs. Boss, a daughter, Elizabeth Kenney, January 28. Their home address is 121 Clay Hill Rd., Stanford, Conn.



L. Travis Brannon, IM '49, has been designated as a partner in the Atlanta law firm of Crenshaw, Hansell, Ware and Brandon.

49 BORN TO: Clois C. Brown, Jr., IM, and Mrs. Brown, a daughter, Elizabeth, January 24. Mr. Brown is an industrial engineer with General Shoe Corp. Their home address is 423 Elm St., Pulaski, Tenn.

BORN TO: C. G. Giffin, EE, and Mrs. Giffin, a daughter, Constance Jean, January 4. Mr. Giffin is with the Schlumberger Well Surveying Corp. Their home address is 12 Beechwood Lane, Natchez, Miss.

BORN TO: *Malcolm Hudgins*, IM, and Mrs. Hudgins, a daughter, Christine Ann, Dec. 1. Their address is 48 Bowman Rd., Western Hills Apts., Chillicothe, Ohio.

M&RRIED: Thomas Edward Perrin, CE, to Miss Jacqueline Bryan. The wedding took place March 1. Mr. Perrin is with the Triangle Construction Co. at Tallahassee, Fla.

**'51** MARRIED: Charles Dennis Durden, IM, to Miss Diana Dobbs Widrig. The wedding

took place in February. Mr. Durden will receive his Ph.D. from the University of Washington in June.

Lt. Frank U. Garrard III, U.S.N., IM, was killed December 1, 1954, when his F9F-8 Cougar crashed near Jacksonville, Fla. His parents live in Columbus, Ga.

BORN TO: Robert H. Goodhart, Jr., IM, and Mrs. Goodhart, a daughter, Catherine Mozley, January 28. Their address is 3444 Roswell Rd., N. E., Atlanta.

MARRIED: J. Robert McClure, IM, to Miss Jamielee Copelan. The wedding tock place March 12. Mr. McClure is associated with the Travelers Ins. Co. in Jacksonville, Fla.

MARRIED: Edward Stanley McPhail, Jr., IM, to Miss Betty Jean Tanner, Feb. 26. Mr. Mc-Phail is employed by the Provident Mutual Life Ins. Co. in Atlanta.

ENGAGED: William B. Richardson, IM, to Miss Dorothy Greer. The wedding will take place April 2. Mr. Richardson is an assistant national bank examiner.

**'52** Jean S. Richardson, Ch.E., is now with the Production Development Laboratories at Pine Bluff Arsenal. His address is Box 3501, Arsenal, Ark.

**'53** Lt. Leon B. Spears, IM, currently serving with the U. S. Army Corps of Engineers in Japan, will complete his tour of duty in April. His permanent address is 635 Park St., Gainesville, Ga.

Wilmer H. Kimberly, EE, was recently promoted to 1st lieutenant while serving in Germany with the radar maintenance section at the U. S. Army Signal School. His wife, Anne, lives at 1602 Langston Ave., S. W., Atlanta.

Naval Aviation Cadet Robert L. McAdams, Jr., ME, is stationed at Whiting Field, Milton, Fla. His permanent address is 611 E. Cambridge Ave., College Park, Ga.

ENGAGED: James Howard Maultin, Phys., to Miss Mary Inman Bell. The wedding date will be announced later. Mr. Maultin will receive his M.S. in Physics in June from Ga. Tech.

Naval Aviation Cadet Deland L. Pringle, AE, recently graduated from Pre-Flight School at Pensacola and is now assigned to Whiting Field, Milton, Fla. His home address is 1008 W. 4th St., Hattiesburg, Miss.

Merle M. Smith, IE, is now with the Everglades Oil Co. His address is Box 1, Port Everglades Station, Ft. Lauderdale, Fla.

Lt. Cullen G. Starnes, Jr., USMC, IM, recently qualified as a carrier pilot after training aboard the aircraft carrier USS Monterey in the Gulf of Mexico. He is now stationed at Corry Field, US Navy Auxiliary Air Station, Pensacola, Fla.

BORN TO: Robert R. Campbell, EE, and Mrs. Campbell, a son, Robert, Jr., Jan. 20. Mr. Campbell is with Bendix Radio. Their home address is 8406 Greenway Rd.. Towson 4, Md.

BORN TO: John S. R. Crockett, EE, and Mrs. Crockett, a daughter, Nancy Elizabeth, Jan.

16. Their address is 1306 Burleson, Grand Prairie, Texas.

MARRIED: Lt. Paul Douglas Fowler, IE, to Miss Glorice Davis. The wedding took place in February. Lt. Davis is serving with the U. S. Army Corps of Engineers at Ft. Belvoir. Va.

ENGAGED: Ens. Donnan Martin, USN, Ch.E., to Miss Hazel Cawthon. The wedding will take place in March. Ens. Martin is stationed aboard the USS Salvager at Norfolk, Va.

*PFC Marcus B. Morehead*, Ch.E., a lab technician with the 561st Quartermaster Petroleum Supply Co., is playing on the Western Area Command Football team in Germany.

MARRIED: John Carl Saladna, EE. to Miss Betty Ivey, Feb. 12. Mr. Saladna is with Sperry Gyroscope Co., Great Neck, L. I., N. Y.

Navy Ens. Scott A. Shaw, IM, is stationed at Whiting Field, Milton, Fla. His home address is 209 Deer Creek Drive, Leland, Miss.

ENGAGED: Ens. Nathaniel Snead Turner III. TE, to Miss Elizabeth Elliott. The wedding will take place in early summer. Ens. Turner is stationed in Jacksonville, Fla.

ENGAGED: William Frederick Young, Jr., CE. to Miss Joan Kershaw. The wedding date will be announced later. Mr. Young is employed by the Ga. State Highway Dept. in Atlanta.

**'55** MARRIED: Ens. Charles Richard Hill, IF. to Miss Elizabeth Gibbons. The wedding took place March 11. Ens. Hill recently graduated from jet pilot school and is now stationed in Jacksonville, Fla. His permanent mailing address is 434 So. Kimmridge Dr., East Point, Ga.

MARRIED: William Clark Morrison, IM, to Miss Barbara Ann Drake. The wedding took place early in March. Mr. Morrison is employed by the Gordy Tire Co. in Atlanta.



## AND IT'S FREE

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#### MORE INFORMATION ABOUT THE CORPORATE ALUMNUS PROGRAM:

## A plan to match employees' gifts to their colleges, up to \$1,000 in one year

Since the General Electric Educational and Charitable Fund announced the Corporate Alumnus Program on Nov. 23, 1954, many questions have been received about it. The answers to questions most often asked by G-E employees are reprinted below as a matter of general interest.

- Q. Does the Program make any distinction between privately endowed and tax-supported colleges?
- **A.** No. All colleges, which are otherwise eligible, are treated alike, irrespective of their source of support or type of control.
- Q. May I also make contributions to any institution from which I earned an advanced degree?
- **A.** Certainly, but the total of all your gifts will be matched only up to \$1,000 in 1955.
- Q. Supposing an employee completed part of the requirements for his degree at one college, and then transferred to another from which he received his degree — are they both eligible for "dollar-matching" gifts?
- **A.** No only the one from which he finally received his degree.
- Q. Are there any restrictions on the use which the college can make of the contributions it receives from the Fund under this Program?
- **A.** Practically, no. The payments will be made to the college to foster the over-all purposes of higher education—which admits of a pretty broad interpretation.
- Q. To be eligible for the Program, do I have to have worked with General Electric for any specified period?
- **A.** Yes, the rules require you to have had at least one year of continuous service in General Electric or one of its wholly-owned subsidiaries.

- Q. What exactly is meant by "earned degree"?
- **A.** You must have at least a bachelor's degree or equivalent. Associate or other short-program "degrees" and certificates do NOT count for eligibility. Nor, for that matter, do honorary degrees.
- Q. Are men and women graduate employees equally eligible?
- A. Yes.
- Q. Is the Program limited to people in special job classifications?
- A. Not at all.
- Q. When contributing to my alma mater, to whom should I make out my check?
- A. It will be helpful if you will make your check payable to the college or university itself, rather than to an alumni association, foundation, or other fund-raising agency. It is the responsibility of the chief financial officer of the institution to certify that the college actually received your contribution. When this is done, the requirements of the plan have been satisfied in this respect. However, making your check payable to the institution is a quicker and surer way of qualifying – but it is not obligatory.
- Q. Now, about the eligibility of my college what specifications is it required to meet?
- **A.** Your college will qualify provided:
  - 1. It is located within the U.S. or its possessions.
  - 2. It is at least a four-year, degree-granting institution.
  - **3.** It is accredited by the appropriate regional or professional accrediting association.

#### HERE ARE THE RULES OF THE CORPORATE ALUMNUS PROGRAM

The Fund will match any contribution, made in 1955 before Dec. 15, by a General Electric employee to a college or university from which he earned a degree, under these conditions:

1. The employee's contribution, in order to qualify under this Program, must be the personal gift of the employee actually paid to the college or university during the calendar year 1955 and prior to December 15 of that year in cash or in securities having a quoted market value and not merely a pledge.

2. The college or university to qualify must be a four-year course, degree-granting institution, accredited by the appropriate regional or professional accrediting association and located within the United States or its possessions.

3. Contributions under the Program shall be employed by the college or university to realize or foster the primary needs and objectives of an institution of higher education, namely, of augmenting the required capital and general operating funds, of providing for expanded student enrollment, of strengthening educational facilities and curricula, and of improving incentives for the highest quality of teaching.

4. The employee at the time of his or her contribution shall be in the active regular employment of the General Electric Company or one of its whollyowned subsidiaries and shall have had at least one year of continuous service in such employment.

5. The total contribution under this Program with respect to the contribution or contributions of any individual employee shall be limited to the sum of \$1,000 and the total contributions to be made by the Fund under the Program shall not exceed the amount appropriated by the Trustees of the Fund for this purpose. In the event that total employee

contributions otherwise coming within the terms of this Program exceed the amount so appropriated by the Trustees, the contributions to be made by the Fund under this Program may be apportioned by the Trustees in such a manner as they may consider equitable and proper.

6. The Trustees shall be entitled, if they deem it desirable to do so, to suspend, revoke, or terminate this Program at any time with respect to employee contributions thereafter made.

7. Any question, whether as to the interpretation, application or administration of the provisions of this Program or otherwise, shall be determined by the Trustees and their decision shall be final.

For more information write: General Electric Educational and Charitable Fund, Corporate Alumnus Program, Schenectady, N. Y.

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## LOOKING FORWARD TO MAY

Photographer Blake Hawkins, Jr., '58, whose work appears on pages 9 through 13 of this issue returns to the pages of the Alumnus in May to present a camera-eye view of Tech's Air Force ROTC training program. In addition to the coverage of the flyboys on the Flats, Blake will take you on a training trip to the Air Force's famed Moody Air Force Base located at Valdosta, Ga. where the cadets will get a look at what might be in store for them after graduation. Look for it in the May issue of

## THE GEORGIA TECH ALUMNUS



