

# kennesawor

## The Technician, Volume 15, Number 7

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Professor R. C. Carter  
Photo by W. E. Burton

## Professor Carter Is Versatile In STI Activities

Professor Robert C. Carter, of the Electrical Department has several interests other than electronics. Among his many interests is photography. His pictures have contributed much to the understanding and recognition of Southern Tech. He has taken most of the campus scenes and several of the basketball pictures that will soon appear in the *Technician's Log*. He has also taken many pictures that have, in the past, appeared in *The Technician*. He does all his own photo-processing with his own camera equipment and darkroom facilities.

### INTEREST DEVELOPS EARLY

When asked in an interview how he got started in photography, Professor Carter said: "Nearly thirty years ago I first became interested in photography as a hobby when I made my first few snapshots with the small folding camera which belonged to my family. In those early years as a youngster, and later as a teenager, my efforts were strictly in the snapshot class, with commercial processing, and perhaps more than half of all the pictures I made were dismal failures.

### BEGINS OWN PROCESSING

"During my high-school days many of my snapshots appeared in the school yearbooks, and during my senior year I was a part-time photographer for a local weekly newspaper. While I was a student at Georgia Tech, I bought my first camera, a small folding type which I used for the next sixteen years. After I finished at Georgia Tech, I became less and less satisfied with the quality of commercial photo finishing, and began some serious study of photography, processes, chemicals, techniques, etc., and built my first darkroom about thirteen years ago.

"Two years ago I bought my first professional camera and tripod, and since then have been able to improve somewhat on the quality of results. This new equipment has been especially useful since I was put on the photo committee here at Southern Tech last year as one of the photographers. This committee was formed for the purpose of building up a file of pictures on virtually every aspect of Southern Tech's activities. These pictures are to aid in publicizing Southern Tech in whatever manner becomes expedient, such as for displays, advertisements, pamphlets, tours, and so on. Also on this committee as photographers are Mr. Larry Cuba and Mr. Bob Hays. It is our hope that through our efforts at making pictures that more people will gain a better understanding of the nature and purpose of Southern Technical Institute."

## Board Of Regents Give Approval For Dormitory

An approval for the construction of a new dormitory for Southern Tech has been given by the State Board of Regents. The dormitory will provide housing for 180 students. The estimated cost will be three-quarters of a million dollars.

The dormitory, sorely needed to meet the needs of a growing school, will be the first student housing on the nearly two-year-old campus.

The money provided by the Board of Regents is considerably less than school officials had hoped for. According to Hoyt McClure, STI Director, the funds will only begin to be a solution to the housing problem. Between \$1.5 million and \$2 million would build a dormitory which would furnish adequate housing for 400 students.

A food service area, either a dining room and kitchen or a snack bar, will be included in the plans of the new dormitory.

Though the exact location of the dormitory has not yet been chosen,

work should begin in the fall of 1963.

The dormitory will not accommodate all of the students who will be forced to move from the 100 apartments in Marietta Place on Clay Street. The apartments will be torn down this summer by the Marietta Housing Authority. Only half of these students will be able to move into the new dorm, according to Mr. McClure. Nor can the enrollment be expanded because of the new dormitory.

School officials, students, and friends of Southern Tech hope that soon the State Board of Regents will find and provide the necessary funds to build additional housing facilities so that Southern Tech can bring most of its dormitory students on campus to live. At the present time Southern Tech is "farming out" its students to the housing authority and to private apartment developments for housing accommodations.

## Gas Fuel To Present Display At Convention

The Southeastern District LPGA (Liquefied Petroleum Gas Association) convention and trade show will be held in the Atlanta-Biltmore Hotel in Atlanta, Georgia, March 24-27. At the convention, the Gas Fuel Department, under the supervision of Mr. W. L. Thomas, will present a unique display consisting of a gas flame directed on a pilot generator to produce an electric current. The current will power tiny motors in miniature racing cars. The speed of the cars will be variable with the heat supplied by the gas flame. Students in the Gas Fuel Department will be excused from classes to attend the convention.

Early in May, the Gas Fuel Department of Southern Tech will have a display booth in Chicago at the national convention of the National Liquefied Petroleum Gas Association. This Gas Association display will consist of the thermoelectric generation of electric current as well as a demonstration of the generation by a comparatively new development, the fuel cell. A number of Gas Fuel students are planning to attend this convention in Chicago.

Featured currently in *Butane-Propane News*, a prominent trade magazine, is a series of articles written cooperatively by Mr. W. L. Thomas, Head of Gas Fuel Department, and Mr. R. W. Hays, Head of the English Department. These articles discuss solutions to various educational problems encountered in the gas industry.

The Gas Fuel Club, Gamma Phi Kappa, has undertaken a program to promote the graduates of the Gas Fuel Department. The program is two-fold. It is intended to inform prospective employers in the gas industry of the qualifications of graduating students and to encourage them to seek employees from Southern Tech.

Mr. John S. Winn, Jr., representing the sales engineering department of Atlanta Gas Light Company, spoke to members of the Gas Fuel Club during their regular meeting February 28. Mr. Winn's subject was gas turbine engines. Mr. Winn conducted a question-and-answer session while he presented a number of slides.

Later that afternoon, a number of students from the Gas Fuel Department drove to Statesboro, Georgia, to accept an invitation from Rockwell Manufacturing Company. The company provided supper and lodging that evening. Lodging was provided at The Crossroads Motel in Statesboro.

The next day included breakfast, a plant tour, an informative lecture, a question-and-answer session, and dinner. Rockwell Manufacturing Company currently employs a number of graduate students from Southern Tech and Georgia Tech. A number of students have scheduled interviews with company officials. Participating students were excused from classes.

## Installation Dinner Given Circle K By Kiwanis Club

The Circle K Club was honored by the Marietta Kiwanis Clubs with the annual dinner for the installation of officers at the Marietta Country Club on Tuesday, March 5.

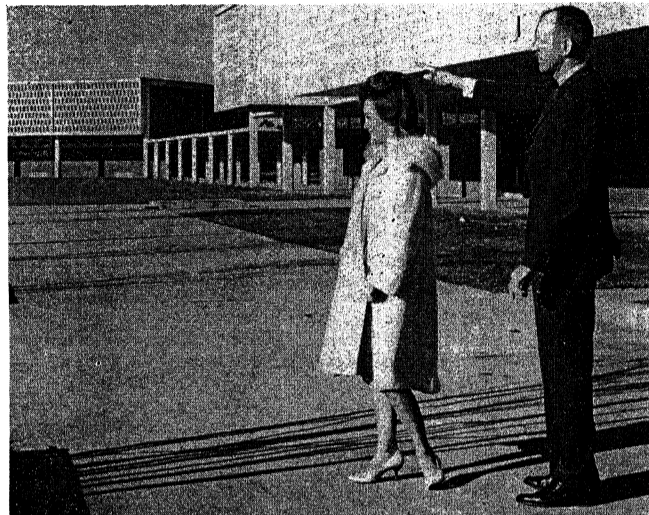
Mr. Fred Bentley, a Marietta attorney, was the guest speaker. His topic was "Service To Humanity."

The officers installed at the dinner were: Johnny Buice, president; Steve Dillard, vice president; Robert Rawls, secretary; Glenn Cullars, treasurer; Vito Colantuono, parliamentarian.

Distinguished persons at the Circle K dinner were: Mr. L. V. John-

son, Director of the Engineering Extension Division of Georgia Tech, and his wife; Mr. and Mrs. Jack Reiber; Dr. Merrill Autrey, past president of the Marietta Kiwanis Club and his wife; Mr. George Griffin, and Mr. David Dosser, president of the Metro Kiwanis Club, and his wife. Mr. Griffin, of the Metro Kiwanis Club, was master of ceremonies.

Discussed at the dinner was one of the Circle K Club's projects, the Student Directory, which will be distributed at the beginning of the Spring quarter.



Southern Tech Director Hoyt McClure shows Mrs. Donna Crowder her new realm.  
(Staff Photo by Les Blair)

## Miss Southern Tech of '63 Tours Campus With Director

Mrs. Donna Crowder, the new Miss Southern Tech of 1963, toured the campus Saturday, February 16, with Director Hoyt McClure and Dean Carroll. Assisting on the tour was Southern Tech's counselor, William Glenn. Bill Koempel and Dennis Weaver, freshman class president and vice president, respectively, were also on hand to greet Miss STI.

In a personal interview after the tour, Mrs. Crowder said, "Since my home is Marietta, I was indeed glad to see that STI had moved its campus here. This is my first time on your beautiful campus, and I

thought it was very fascinating that the big rock runs completely under the Electrical Building. I was very impressed with your modern classrooms and well equipped laboratories."

Miss STI will represent Southern Tech at the Cobb County Fair, where she will be right at home as she was chosen Miss Cobb County Fair three years ago. On Friday, February 22, she began a series of radio and television appearances with an interview at WFOM, one of Marietta's radio stations.

## March Graduating Class To Receive Degrees In June

The March graduating class consists of 76 Seniors who have completed the requirements for the Associate in Science Degree. There will be 79 degrees awarded as three seniors will graduate with a double major. The seniors will receive their degrees in the June graduation exercises.

Those who are receiving two degrees are as follows: Leroy Samuel Ayers, Industrial and Industrial Management; Alfred C. Cornelius,

Industrial and Industrial Management; George Thomas Welch, Gas Fuel and Heating and Air Conditioning.

Ranking first scholastically in the March graduating class is Southern Tech's student of the Month, J. H. Pitts, Jr., or "John" Pitts as he is known by most students on the campus. John is graduating with a 3.70 average to show for his four quarters of work.

### CANDIDATES FOR GRADUATION Winter, 1963

#### BUILDING CONSTRUCTION

Stephen Freidland Gold  
Arthur Lee Jenkins  
Douglas Cozart McAfee  
Raymond Leon Moody, Jr.  
Johnny Hoke Pitts, Jr.  
Harry Sutton Rowland, Jr.  
Isaac James Thomas

#### CIVIL

James Robert Adams  
James Albert Bay  
Cecil Walter Betenbaugh  
Willie Lawrence Bradham  
Charles Russell Dean  
James Timan Hendricks, Jr.  
Richard Byron McNeely  
Robert Wallace Moss  
LeRoy Charles Nelson  
Joseph Pirosek, Jr.  
Buford Gerald Small  
Bickley Woodrow Smith, Jr.  
John William Waddell, Jr.  
John Quincy Williams, Jr.

#### CIVIL-CO-OPERATIVE PLAN

Joe Neal Bagwell  
Herman Doyle Cochran  
Ronald William Davis  
Joseph Ronald Hannon  
Richard Lamar Jones, Jr.  
James Alfred Mills  
Richard Laban Purcell  
James Alfred Simpson  
Wesley Eugene Trapp  
James Donald Webb

#### ELECTRICAL TECHNOLOGY

(ELECTRONIC)  
William Tucker Barr  
John Robert Bay  
Darrall Felton Bell  
Frank Oliver Clark  
Jackson Daniel Clowdus, Jr.  
Gary Emory Davis  
Alan Clyde Evans  
Kenneth Benard Forbes  
William Jackson Grantham  
Virgil Emmons Hanes, Jr.  
Donald Elmer Hartwig  
John Dixon Hulsey, III

#### POWER OPTION

John Burton Jackson  
Ronald Lee Lindler  
Hewlett Edsel Melton, Jr.  
Ronald Jerry Monroe  
Roderick Starr Parker  
James Melvin Sams  
Yehudah Uhlmann  
William Dennis Vernoy

#### ELECTRICAL TECHNOLOGY

(POWER OPTION)  
Lewyn Earl Brown  
Larry Allen Thomas  
Charles Leroy Ward

#### ELECTRICAL (TELEPHONE OPTION)

Jack Douglas Dooly  
Edward Fulenwider, III  
Quentin Dellano Holloway  
David Randall Wages

#### GAS FUEL

George Thomas Welch  
Charles Walter White

#### HEATING & AIR CONDITIONING

Alexander Gray Clark  
George Thomas Welch

#### INDUSTRIAL

Leroy Samuel Ayers  
Alfred Curtis Cornelius, III  
Rhoert Beasley Ivey  
Rhett Baker Glover, III

#### INDUSTRIAL

(MANAGEMENT OPTION)  
Leroy Samuel Ayers  
Alfred Curtis Cornelius, III  
Silvio Robledo Villegas

#### MECHANICAL TECHNOLOGY

Fred Clay Taylor  
Bruce Milton Barron  
Jerald Franklin Fleming  
David George Foster  
Robert Newton Ivy  
Ralph Leon Merrow, Jr.  
Jack Tichenor

#### TEXTILE TECHNOLOGY

Charles Barron Elrod  
Joe Edward Threlkeld  
Stewart Swan Whately

## Editorials

### Colleges To Receive Expansion Rules

Georgia's seven junior colleges will soon get guidelines for expansion into four-year institutions.

State Board of Regents members Wednesday agreed to name a committee to study the needs of these colleges and to set out criteria to be met for expansion into four-year degree-granting institutions.

Howard H. Callaway, of Pine Mountain, chairman of the Regent's Committee on Education, said "virtually all" of the state's junior colleges are looking toward expanding their programs.

#### INITIAL REQUESTS

Regents, headed by James A. Dunlap, of Gainesville, also accepted initial requests for junior colleges from Albany, Dalton, Cartersville, Marietta, Bainbridge, and Calhoun.

The regents also approved a request to the University System Building Authority to file an application with the Housing and Home Finance Agency to use approximately \$700,000 for the construction of the first unit of housing facilities for students of the Southern Technical Institute of the Georgia Institute of Technology.

### Engineers And Technicians

By ROBERT D. WEAVER

What is the difference between an engineer and a technician?

As a student I have spent two years of my life in the wrong school because I did not know the difference. Possibly, I have read the wrong books all my life, or I have listened to the wrong people, but as a child I dreamed of becoming an engineer. My entire secondary education was planned around this dream so that the college of my choice would accept me. It did, and for two years I studied mechanical engineering at Georgia Tech.

The time spent at Georgia Tech, I must admit, was the most confused period of my life. For two long years I labored along under the illusion that someday I would become an engineer. It wasn't until the school had dismissed me that I learned that somewhere between the cradle and the dormitory I had been misled by a false idea of engineering. They were not training me to become an engineer, but they were sure on the right road to making a scientist from a disillusioned, would-be engineer.

Probably the main cause of confusion is the fact that the technician is rapidly taking the place of the engineer in industry today. For years, the graduate of an accredited engineering school was given the title of "Engineer," but the duties many engineers performed were those of a technician.

This important naming of duties was caused in-part by the failure of industry to recognize the true value of the engineering colleges and rely more on experience.

Today, however, we are in a rapidly changing world that demands that a nation make the most of its young college graduates before their training becomes out moded. As a result, we as technicians are moving into the phase of industry that was formerly reserved for the engineer.

We cannot passively wait for the world to realize how important we are. No, we must continually improve our knowledge and ability in our field of study. This means of course that technical schools must add more and more difficult courses to their curriculum lest the trade and vocational schools take their place in industry away from them.

### An Engineer's Scientist

By Rolf W. Roley

The Engineering Profession is somewhat more demanding of mathematical proof than most of the associated but purely Scientific Professions. Engineering uses logic but ordinarily in association with established and proven concepts. The Scientist is frequently working in completely abstract fields, usually with logic as his main tool. Therefore, the Engineer normally uses his data as fact and applies safety factors instead of qualifications while the Scientist seldom feels sufficiently firm in his results to use them as facts complete unto themselves. The Scientist almost always qualifies his work but does not often apply safety factors. In another sense, the Engineer is dealing with Applied Science; the Scientist, with pure science. Einstein, in at least the case cited here, was unique as a Scientist . . . when he had reached a conclusion by his own logic . . . and in many instances his only proof was that of his own thinking . . . he would use his conclusion as fact . . . unhesitatingly cite his data just as an Engineer would, unhesitatingly provide the results of a simple measurement.

To me, as an Engineer, the incidents surrounding the challenges to Einstein's Theory or concept that light has mass and will be noticeably bent as it passes a large body is illustrative of the greatness—and I wish I had a stronger word—of this man of science.

The story goes as follows: A major problem in scientific circles involved the attempt to calculate certain data about the planet Mercury. Science was failing . . . Einstein went to work on the problem . . . and almost off-handedly explained the answer . . . "A light ray has the same action and reaction when passing through our planetary system as would a planet." This meant that light has mass and will be bent when passing close to a heavenly body. The scientific world flocked to defend the old theory . . . the Newton Theory. Einstein stated that no argument was necessary . . . conduct an experiment . . . use an eclipse, taking pictures of a constellation of stars when they were not aligned with the sun and another set of pictures when the same constellation is in line with the sun . . . the proof then is simple . . . if the light rays are bent as per the Einstein theory, the relative position of the stars in the constellation will be different in the two pictures. Einstein then went even further, he calculated the exact amount and direction of the variation to be expected from the experiment . . . then he lost interest . . . he was satisfied. The Royal Society in London tried the experiment . . . and, note the date . . . in May, 1919. The pictures were taken . . . displacement was noted but not exactly as Einstein had predicted.

When confronted with the findings his answer astounded the scientific world. "Let them take better pictures then, the stars will be in their proper places." Conceit, Yes! He didn't even bother to check his own findings . . . his thinking was to him scientific fact . . . the rest of the world was wrong . . . he was right. And so he was; But, it wasn't until 1952, almost exactly 35 years after his explanation and prediction, that the scientific accuracy necessary to demonstrate his belief could be attained and then his Theory became Fact . . . but only to the rest of the world. He'd never doubted his thinking in the first place and the experiment was for others, not Einstein . . . After all, he had thought it through . . . He didn't need any fancy experiment to prove what he already knew.

## Alumni Corner

By Armenta Simmons

### Membership Drive For STI Alumni Association Is Of Interest

RESPONSE TO THE DRIVE FOR MEMBERSHIP IN STI NATIONAL ALUMNI ASSOCIATION GOOD. HELP MAKE IT BETTER BY JOINING!

The officers of the STI National Alumni Association wish me to express their appreciation for the response to the president's plea to join the association. They will be giving you a report through the paper soon.

#### Alumni News

CLASS OF '49: ROBERT (BOB) SIMMONS, IND. T., dropped by recently. He lives in Knoxville, Tennessee, and had not seen the new school before. Being one of the "pioneer graduates, he naturally was proud.

CLASS OF '53: CURTIS E. SAUNDERS, ET (EO), was recently married to the former Miss Myra Jean Porter of Fort Lauderdale, Florida, a teacher in the schools there. Curtis is with Lanier Company in Ft. Lauderdale. Congratulations!

CLASS OF '54: DON AASER, H&AC, is being promoted by Robertshaw - Fulton Controls, so the Hornadys tell us. His promotion will move him to Richmond, and we wish him continued success.

CLASS OF '56: DAVID HORNADY, H&AC, and his lovely wife, Betty, write that they would like to tell the alumni who did not get to attend the last "reunion" that they missed a mighty good time. They urge all of the out-of-towners to start planning now to attend this year's banquet and business meeting. They suggest that if a large group from out of town would attend, perhaps all of you could lease a motel — or at least make reser-

uations together. Also, they'd like to see an Open House that weekend at the school — and by all means — planned on a football weekend! If any of you have ideas like this, I am sure the officers would be glad to hear them. TOM GUY, H&AC, is now in Birmingham, Alabama, and he would like to get in touch with E. H. SCISSON, another H&AC graduate. Pass the word along if any of you see Scisson.

CLASS OF '57: BILL FERNANDER, MECH T., is now Sales Representative with National Printing Company in Atlanta, and he paid us a visit recently. DAVE MORTON, E T (EO), finally wrote to us from Sarasota, where he is with Electro-Mechanical Research. He would like to hear from JOHN HARTLEY. Dave, tell the other alumni there to let us hear from them.

CLASS OF '59: FRANK FLEMING, BC, called to tell us that he is now in business for himself. His firm is Fulton Glass & Mirror Company, 30 Old Ivy Road, NE, Atlanta 5, Ga. He opened for business on Monday, February 25, and they do most any type of glass work, as well as install aluminum doors. He invites you to drop in when in that neighborhood.

CLASS OF '61: JOYCE AND JERRELL PUCKETT, MECH. and IND. T. (MO) writes from Dalton, where Jeerrell is with Dixie Belle, and Joyce is with Beelcraft. Mrs. Puckett is the former Joyce Sandrock, and they attended STI together. Joyce writes that CLINT DURHAM, Ind. T.—1959—has moved to Aiken, S. C., to work with Owens-Corning Company. The Pucketts now live in the Durham's former home. Joyce sends her best wishes to Mrs. Wilson.

CLASS OF '62: THE ROY OLIVERS, ET (EO) have a new son, born December 20. Roy is with Vitro in Ft. Walton Beach, Fla. Congratulations! LOUIS F. LINDLE, MECH. T., writes us from Kentucky, his home state. Louis decided to go back home to locate. GLENN M. MCKENNEY, BC, says he is quite pleased with his job with Sears, Roebuck & Company. He is in their Architectural Drafting Department. He has a new apartment, but still misses STI. DAVID C. MILER, IND. T., is with Cabin Crafts, Inc., in Dalton, and we appreciate hearing from you, David.

WILLIAM E. MARTIN, ET (EO), who is with Southern Railway, is going to be married on March 16 to Miss Rose Marie Greer. They will be married at the Oak Grove Baptist Church in Spartanburg, S. C. Congratulations, Bill!

### Student Council Progress Reports

The Student Council has elected to publish and distribute periodic Progress Planning Reports to the student body. These reports will be distributed quarterly or whenever necessary.

By distributing these reports, the Student Council proposes to keep the student body better informed. The reports will include forthcoming and current campus projects and activities.

The report contents will be released through Director H. L. McClure's office or other authoritative sources.

The first report released describes the following projects for the campus.

#### Air Conditioned Class Rooms

Building 2 should have air conditioning before the hot summer months. Work has already started on the installation.

#### Landscaping

The landscaping program will continue as soon as the weather permits. A large portion of the grass area in front of Building 2 will be paved and benches will be provided. In the remaining area trees and shrubs will be planted. It will take at least one year to complete the landscaping plans.

#### Entrance to the Campus

Construction will soon begin on signs to be placed at the campus entrances. The signs, as now planned, will be constructed of brick with raised letters similar to those on the Administration Building. The signs will be lighted at night.

#### Covered Walkways

The plans for the extension of the covered walk-way between Building 4 and Building 5 are in the hands of the architect, and work should begin soon.

#### Student Dormitory

Money has been approved by the Board of Regents for a dormitory. The first dormitory will house and provide dining facilities for 180 students. It is the opinion of Mr. McClure that the earliest date of completion will be September 1964.

Even though a dining hall will be included in the new dormitory, the snack bar will remain open.

### Slide Rule Slips

#### That's What He Said!

(Gleaned from student papers)

The information was given when the purpose of the investigation was reviled.

It was a dangerous hazard.

Each year traffic accidents cause many deaths. "I hope this information can prevent some of these deaths."

She decided that she couldn't wait for further delay.

We shall be glad to count you among our costumes.

The table I purchased arrived badly scared beyond all repairs.

The increase seems to be decreasing each year.

The years 1959 through 1961 showed a steady increase in quantity, but a corresponding decrease in income.

The 2% increase in . . . passengers came almost completely from 1959 to 1960.

High reductions have been made in death rates.

The students' grades improve more from the lowest to the highest.

Heating and air conditioning is an uncrowded field.

The upward climb in fraternities fell off in 1950.

Some schools offer subjects that include spelunking as a subsidiary.

The report will start with the pumping station on the Chattahoochee River and will go from there to the treatment plant on South Roswell Road.

The report will take four weeks to prepare.

Questions have been organized to make interviews short but revealing.

The values never go below the lowest value which occurred on Monday.

Looking at the test bottle, the syrup should be on the calibrated line. There is a smooth place where the cutting edges stop before they reach the end.

Using a moderate-size telescope, an observer can see the creators on the moon.

The majority of information . . . (is collected).

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### Calendar

Spring Quarter, 1963

March 25—Registration.

March 26—Classes begin.

March 27—Late registration fees apply.

March 30—Last day for registration.

Last day for adding a subject to study list.

April 27—Last day for dropping a subject from study list without penalty.

May 4—End of deficiency report period.

June 8—End of term.

### The Technician

Published monthly by the students of The Southern Technical Institute, Marietta, Georgia

#### THE STAFF

ROBERT D. WEAVER . . . . . Editor-in-Chief  
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Member of Associated Collegiate Press



### Publication Of Circle K Weekly

The Circle K Newsletter, which has been published for several weeks during the winter quarter, was renamed **The Hornet Stinger** at the regular Circle K meeting February 27. **The Hornet Stinger** will continue to be published weekly by the Circle K Club and will be placed in the post office about noon each Wednesday for distribution.

**The Hornet Stinger** will continue to contain news of all sporting activities and serve as a place for all students to "sound off" with their gripes and comments about campus life. There will also be several jokes or humorous stories of campus scenes in each edition.

Since **The Hornet Stinger** is published for the students, students are requested to submit anything of interest to **The Hornet Stinger**, Post Office Box 8700, by Monday afternoon for it to be in the next Wednesday's edition.

### Alpha Mu Sigma, Iota Tau Party

Alpha Mu Sigma and Iota Tau sponsored a party jointly on Feb. 23, at the Avondale Legion Country Club. Approximately fifty couples attended to listen and dance to the music of the Crescents from Atlanta. The height of the entertainment came when the band played "Limbo Rock," and a spontaneous limbo contest followed.

The limbo contest lasted until only a handful of contestants remained. By this time the bar was only 2½ feet from the floor.

Bruce Edwards, pledgemaster for Alpha Mu Sigma, was surprised to find that some unscrupulous pledges had placed his Voltswagen on blocks. However, he didn't seem to mind too much as the whole car had been gift wrapped.

Mr. Roy Shaver, manager of the country club, said "This is one of the nicest and best behaved groups we have had in a long time."



Professor W. O. Spaeth explains the function of a carrier unit. Left to right—R. W. Ellis, Randy Wages, Joe Brabham, W. O. Spaeth.

(Photo by Bob Carter)

### Astronomy Topic For ASTME Club

ASTME invited Mr. L. C. Volberding to give a lecture on astronomy during the club period January 24. Mr. Volberding studied astronomy at the University of California, and now he lectures on this subject as a hobby. He is employed at Lockheed as a Manufacturing Standards Engineer and spends his spare time lecturing at schools and clubs. He used color slides taken through the telescope at Mt. Polomar Observatory. Mr. Volberding gave the students a chance to ask questions after the lecture, and he was detained a long time after the meeting to answer all the questions asked. Afterwards he was taken on a tour of the campus by Mr. Cuba, an instructor in Mechanical Technology.

### McClure Reports

A new member of the English Department of Southern Tech, Theodore R. McClure, has written an article for **The Marietta Daily Journal**. The article, concerning the poet Robert Frost, appeared on the editorial page of the evening paper on Friday, March 1.

### John H. Pitts Is Student Of Month

John H. Pitts was elected student of the month by members of the faculty and administration for his academic achievements. He had been on the Dean's list three out of the four quarters. During his first quarter at Southern Tech he was one of four students to achieve an 4.0 average.

John H. Pitts was born and reared in Upson County. He graduated from Robert E. Lee Institute in Thomaston, Georgia in 1955. He entered Georgia Tech in the fall of 1955 and studied architecture for two years before withdrawing to work for a while. John worked for a year in residential construction and for three years as a draftsman with architectural firms before entering Southern Tech in January 1962. While attending school, he worked as a free-lance residential designer until November of 1962 when he began working for Mr. Cleveland M. Cail, Jr., a Marietta architect.

After graduation in March, John will be associated with Purdue and Williams Construction Company.

In addition to attending classes, studying, and working, John has found time to participate in Southern Tech Toastmasters Club, Tau Alpha Pi scholastic honor society, and to serve as vice president of the Circle K Club.

### Defore Speaker IEEE Dinner

The IEEE, at its meeting on February 21, decided to have a club banquet to close the winter quarter. After several places were mentioned the club chose to have its banquet at Weem's Restaurant, which is in Belmont Hills in Smyrna.

Professor Jess Defore was the guest speaker. His speech was titled "Is There Anyone Out There?"

### Phone System Explained By Spaeth To Students

Do you ever wonder what lies beyond the telephone instrument that has become so important in your daily activities? Do you ever wonder what happened to the operator who commonly used to complete all local calls? In the telephone field, as in all others, today's technology has brought about major changes. Familiar sounds are being replaced by new sounds, and familiar troubles with transmission from one telephone to another are slowly but surely becoming nonexistent.

"One of the new sounds you are beginning to hear frequently on a call between exchanges has heralded an economic revolution in the industry and made feasible the vast free service between exchanges which until recently were connected only by toll service," said Professor W. O. Spaeth.

This sound is present after you have dialed your number and you hear the called telephone ringing. The ring-back tone has changed from a buzz to a whistle. The whistle indicates that your call has gone out, not over its own private pair of wires, but as a low-frequency radio wave along with countless others over the same pair of wires. Maybe this is a phenomenon with which you are already familiar. You have a radio receiver, or you may have an amateur radio transmitter, or you know a friend who has one. But think of this amazing thing, if you will: this device in your telephone connection can transmit and receive at the same time without

interruption of transmission in either direction and without the need for a transmit-receive switch.

The name of the device? Carrier.

Carrier equipment has replaced thousands of pairs of wires in cables by creating thousands of effective wire pairs on existing cable lines between exchanges and between distant cities. The savings on cable lines are passed on to the subscriber in either reduced telephone bills, or reduced toll charges on long distance calls.

When you hear the whistle on your next call, try wondering what your telephone bill would be each month if the telephone field of technology had not introduced carrier systems into the vast communications networks of today. And if you'd like to know about the opportunities offered to engineering technicians in the Telephone field, drop in to see Mr. Goodwin in the Electrical Engineering Technology building or me," said Mr. Spaeth.

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