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May 31, 1960

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: ~~Thirtieth~~ Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the Southern Technical Institute for the fiscal year 1959-60.

I. Faculty:

Additions, Replacements, and Resignations in Faculty and Staff:

1. Since July 1959 we have added eight faculty members and had seven resignations.

Added:

Baker, Virgil D., III	Special Lecturer, <u>Electrical Technology</u>
Eller, Herbert	Instructor, <u>Industrial Technology</u>
Gangloff, Floyd J.	Instructor, <u>Physics</u>
Haney, James T.	Instructor, <u>Civil Technology (half-time)</u>
Keown, John L.	Instructor, <u>Electrical Technology</u>
Ordway, Albert O.	Assistant Professor, <u>Drawing</u>
Watkins, Robert B.	Instructor, <u>Textile Technology (half-time)</u>
Weir, Dick Burgess	Instructor, <u>Electrical Technology</u>

Resignations:

Adams, John	Instructor, <u>Mathematics</u>
Allen, William P.	Assistant Professor, <u>Electrical Technology</u>
Flanders, Thomas E.	Instructor, <u>Electrical Technology</u>
Herrick, David E.	Assistant Professor, <u>Electrical Technology</u>
Martin, Charles S.	Instructor, <u>Civil Technology (half-time)</u>
Narvin, John H.	Instructor, <u>Textile Technology (half-time)</u>
Reagy-Jurto, Paderuzeta	Instructor, <u>Physics</u>

Change in Rank of Faculty Members:

Hays, Robert W.	From Associate to Professor
Leibert, Clark M.	From Assistant to Associate Professor
Myatt, Robert L., Jr.	From Assistant to Associate Professor
Adams, John	From Instructor to Assistant Professor
Richardson, G. M., Jr.	From Instructor to Assistant Professor
Sojourner, Jasper B.	From Instructor to Assistant Professor
Wortman, James H.	From Instructor to Assistant Professor

## Secretaries:

## Added:

Arnold, Delores M.	Clerk-typist
Flanders, Martha Joyce	Stenographer
Howard, Sarah	Secretary
Hulson, Iris Ann	Clerk-steno
Reitz, Lida Mae	Secretary

## Resignations:

Carpenter, Faye	Secretary
Davis, Irene S.	Secretary-Receptionist
Griggs, Ruby	Clerk-steno
Head, Martha B.	Stenographer
Moon, Marion	Clerk-typist
Reitz, Lida Mae	Secretary

## 2. On Leave:

Barksdale, Richard D.	Working on degree at Georgia Tech
Hutcheson, Kermit	At Miami University (Ohio), setting up and operating computer center
Stone, Ernest R.	Working on degree at University of Georgia

## 3. Doing Graduate Work While in Service:

Blair, Marion E.	Nahari, Gideon
Chan, Myung Soo	Richardson, G. M., Jr.
Cowan, Clifford W.	Taylor, Leonard H.
Dunn, John E.	Watkins, Robert B.
Myatt, Robert L., Jr.	

## Doing Work Toward Bachelor's Degrees:

Baker, Virgil D.	Lawson, George M.
Barksdale, Richard D.	Newton, Jack W.
Burton, Walter E.	Thomas, Weldon L.
Goodwin, James P.	Youngblood, Ralph P.

(Mr. Youngblood already has a degree but is taking prerequisite courses before entering a graduate program at Emory)

## Received Degrees During 1959-60:

Adams, John

Mr. Ernest R. Stone, Mr. L. H. Taylor, and Mr. Ralph P. Youngblood have received National Science Foundation grants to study at the University of Houston during the Summer Quarter 1960.

Mr. Albert O. Ordway has been granted a license to practice

architecture in the state of Florida. Mr. Orduy has been licensed by the National Council of the Architectural Registration Board as a Certified Architect and holds current licenses to practice architecture in Georgia and South Carolina. He is a corporate member of the American Institute of Architecture and is serving on the Educational Committee of the Georgia Chapter of the Institute.

#### 4. Research, Creative Work, Publications:

Mr. R. W. Hays is currently engaged in the following research activities: a study of machines to translate Russian into English (with an informal seminar at Georgia Tech); a short bibliography of sources of information for engineers, technicians, and technical writers (with a Georgia Tech research librarian); and a study of the executive personality in modern novels.

Mr. W. L. Thomas continued his research project on the Joule-Thomson Effect and its result on accurate metering. The Gas Fuel Department built a fluid-flow display which was shown at the Southeastern LPGA Convention in Atlanta in April 1960 and at the National LPGA Convention in Chicago in May 1960.

During the report period Mr. Hays had two articles published:

"Pencil Pushers and the Laws of Paper Work," Southern Power and Industry. August 1959, Vol. 77 No. 8, pp. 40-41

"How to Make Your Next Report Better," Gas Age. Sept. 17, 1959, Vol. 124 No. 6, pp. 23-25, 31.

Mr. Hays has produced three other articles which have been accepted for publication within the next year: "What You Should Do Before Your Next Speech"; "Schizophrenia in Teaching English"; and "What Is Technical Writing?"

Mr. Blair and Mr. Hays have produced a remedial English text, which is now being reviewed by John Wiley & Sons, Inc.

Mr. W. L. Thomas has had two articles published during the report period:

"Southern Technical Institute Offers Trained Gas Technicians Wide Variety of Skilled Jobs in Various Branches of Gas Industry," Gas Industries. February 1960, Vol. 4, p. 2.

"Gas Fuel Technology," Chronicle Occupational Briefs. No. 196

Mr. Thomas also received an acknowledgment for furnishing information for Chronicle Occupational Brief No. 188, "Air Conditioning and Heating Technology."

Mr. Thomas has been asked to write for the Georgia LP-Gas Association

specifications listing available LP-Gas equipment and describing the correct method of installation. The booklet is to be distributed to the A.I.A. with credit given to Southern Technical Institute.

5. Faculty in Regular and Summer Sessions:

Full-time teachers in regular session	.....	54
Full-time teachers in summer session	.....	38

6. Classification of Faculty According to Ranks:

Professors	.....	5
Associate Professors	.....	11
Assistant Professors	.....	14
Instructors	.....	14
Special Lecturers	.....	10

7. Average Faculty Salaries (Academic Year):

Professors and Deans	.....	\$6363.00
Associate Professors	.....	6318.00
Assistant Professors	.....	5152.00
Instructors	.....	4759.00
Special Lecturers	.....	4595.00

8. Faculty and Teaching Loads:

Average student load per teacher	.....	13.7
Average credit hours taught by teachers	.....	11.9
Clock hours	.....	17.3
Equivalent clock hours	.....	45.2
Student credit load hours	.....	251.4

9. Appraisal of Work:

Faculty morale has been somewhat lower than usual, principally because of uncertainty about the possibility of the closing of state-operated schools; but the instruction has been generally good.

II. Students and Enrollment:

1. Average enrollment for regular session	.....	785.6
Cumulative enrollment for regular session	.....	1052
Average and cumulative enrollment for Summer Quarter 1959	.....	417
Average enrollment for entire year	.....	693.5
Total cumulative enrollment	.....	1218

2. <u>Quarter</u>	<u>Veterans</u>		<u>Non-Veterans</u>		<u>Total</u>		<u>Sum Total</u>
	<u>M</u>	<u>W</u>	<u>M</u>	<u>W</u>	<u>M</u>	<u>W</u>	
Summer 1959	133	0	264	0	417	0	417
Fall 1959	126	0	763	1	889	1	890
Winter 1960	111	0	639	1	750	1	751
Spring 1960	94	0	621	1	715	1	716

Only one woman was enrolled for study in the Southern Technical Institute through 1959-60. The remaining 1217 on the cumulative roll were men. One hundred and eighty-six (186) of the 1218 (15.2%) were veterans; 1032 were non-veterans. One thousand and thirteen (1013) of the 1218 were residents of Georgia, and 205 (16.8%) were non-residents.

3. Associate in Science degrees conferred during the regular session of 1959-60 . . . . . 237  
 (Provided all candidates complete their requirements in the Spring Quarter 1960)  
 Associate in Science degrees conferred during the summer session of 1959 . . . . . 59  
 Total degrees awarded in 1959-60 . . . . . 296

4. Number of Students in Extension and Special Courses:

Contract Training: Training school conducted on Southern Tech Campus

<u>Organization</u>	<u>Number of Schools</u>	<u>Students</u>
Army Transportation Supply and Maintenance Command	1	20

5. Quality of Scholastic Work:

Although careful, comparative studies were made of point averages, number of students dropped for poor scholarship, probation lists, number of students graduating in relation to cumulative enrollment, the number of graduates finishing with honors, etc., no evidence was found to prove that the quality of scholastic work at Southern Tech improved to any appreciable degree throughout 1959-60. It is true that although a higher percentage of students graduated in relation to cumulative enrollment (296 out of 1218 or 24.3%), this situation may have resulted partially from the fact that an unusually large class of 59 students finished their work in the Summer of 1959. Another noticeable fact was that only 17 of the 296 graduates achieved honors of any kind.

Another situation of concern was that almost one half of the 319 new students admitted in the Fall Quarter were deficient in mathematics or English. This increased our remedial offering far beyond what we had intended; however, Dr. Hills of the State Testing and Guidance Service told us to expect initially a decrease in student quality when our entrance requirements were increased.

Southern Tech is still not attracting enough of the better students. A large majority of our student body is drawn from the rural or small town high schools, and not from the high schools in the cities, where preparation should be better and course offerings more varied. Furthermore, the students coming to Southern Tech from the larger high schools are, in general, those who have made the poorer records and who have had difficulty with their science and mathematics.

From the above fact it appears that the technical-institute level of education is still not understood adequately by parents, students, and--most important--high-school counselors.

#### 6. Student Activities:

The Student Council, the campus-wide clubs, the departmental clubs, and other student organizations were active during the 1959-60 school year. With the aid of a local Methodist minister, a campus Wesley Foundation was established, with Mr. Richardson as faculty sponsor.

The Technician and the Technician's Log were again of high quality. Mr. J. B. Sojourner continued his excellent work as faculty sponsor of student publications.

Intercollegiate and intramural sports were directed by Coach Harry Lockhart, with the assistance of Mr. Gangloff, Mr. Lawson, and Mr. Smith.

Twenty-five students tried out for varsity basketball in October, and twelve earned varsity letters. A twenty-four game schedule was played with freshmen teams and teams from junior colleges. The "B" team played an eleven-game schedule, and a total of twenty-one students participated in varsity and "B" games during the season.

Twenty-seven students tried out for the baseball team, and sixteen received varsity letters. A sixteen-game schedule was played in the Georgia Junior College Conference. There were more participants in track than in any previous year. Mr. Floyd Gangloff of the Physics Department served as coach, and a track was set up near the dormitories. About thirty students tried out, and five



meets were scheduled, plus the Piedmont Relays at Furman University and the Georgia Junior College Meet at Macon. Twelve students earned varsity letters in track.

Five students under the direction of Mr. George Lawson of the Industrial Department composed the golf team, which played several matches and won second place in the Georgia Junior College Tournament.

Six students under the direction of Mr. Harry Smith of the Mathematics Department made up the Tennis Team. They played several matches and participated in the Georgia Junior College Tournament.

Approximately 450 students and faculty members participated in intramural sports during 1959-60. Eight teams participated in touch football. A round-robin schedule was played, with each team playing all other teams once. Six student teams and the faculty team made up the intramural softball league. Eight teams played in the intramural basketball league during the Winter Quarter. Volley ball has been very popular, since it is now being played in the gymnasium instead of outside. Six teams played volley ball during the 1959-60 term. Sixteen students played in the intramural tennis tournament. Seventeen students and faculty members played in the student-faculty golf tournament, which seems to become more popular every year. Thirty-two students participated in the ping pong tournament.

The addition of Building 23 this year has made the gymnasium available all day for the use of students between classes and at night. The library has been in use almost constantly, and basketballs, volley balls, and ping pong equipment can be checked out of the library for use in the gym and the recreation room. A television set is in almost constant use in the reading room next to the library.

#### 7. Co-op Department:

Mr. W. L. Thomas continued as director of the Co-op Department. Co-op programs are now offered in all departments. Approximately 100 students and twenty companies are participating. Because there are more job openings than there are students, a publicity campaign is being conducted among the students.

The program is being expanded rather slowly, so that it will grow healthily and so that both industry and students will be satisfied.

#### 8. Placement Department:

Mrs. Mildred T. Wilson, placement director, reports that there continues to be a great demand for Southern Tech graduates in all

options. This fact was indicated throughout 1959-60 by an increase in the number of openings listed with the Placement Department by industrial and governmental organizations throughout the nation. Representatives from every section of the country visited Southern Tech during the year. These representatives expressed more optimism than they have for several previous years.

The majority of companies are still looking for quality in the men they select for employment with their organizations. Some companies are reluctant to employ graduates who have not completed their military service.

Salaries have increased steadily each quarter. A recent Placement Department survey of salaries of graduates showed an overall average starting salary for technicians of \$374 a month. A survey of the salaries of Winter Quarter 1960 graduates indicated an even higher salary--\$401 per month.

### III. Significant Changes or Improvements in Existing Curricula:

The general level of the Gas Fuel Technology curriculum has been upgraded for the past three years. More stress has been placed on gas distribution instead of primarily on gas utilization. The upgrading has apparently been beneficial to gas fuel graduates, since three of them have accepted positions as research technicians with the Gas Institute, a unit of the Illinois Institute of Technology.

Chemistry has been added to the curriculum of Mechanical Technology. The night school labs in welding and machine shop were moved from the Georgia Tech campus to the Southern Tech campus. The classes were started in September. The welding class has run every quarter, and the machine shop class was run during the Spring Quarter.

The Multiplex Plotter and the Saltzman Enlarger were added to Civil 251, and new equipment was added to the Civil 214 lab.

The telephone laboratory was modernized to use new equipment received during the year; a carrier telephone system from the Kellogg Switchboard and Supply Company and two repeater terminals for a telephone system from Southern Bell Telephone and Telegraph Company.

### IV. Library:

Mr. R. N. Edwards has done an excellent job of improving the library. Under his supervision the books and equipment were moved to Building 23. Mr. Edwards has secured a number of new books and, with the cooperation of Mrs. Croland of the Georgia Tech library, has had all the books catalogued. He has secured a full-time library attendant and part-time student assistants, who have helped to keep the books available to the students and the faculty. The library, however, is still inadequate for a first-class technical institute. Library

facilities should be expanded and trained library personnel should be employed as soon as funds are available.

#### V. Research:

Research was described under faculty information.

#### VI. Public Services, Publicity, Short Courses, Advisory Services:

Reports from industry, counselors and principals, prospective students, and the general public continue to indicate that Southern Tech is highly regarded.

News of the forthcoming move to the new campus at Marietta has become generally known and has attracted much favorable attention. The letting of the contract in April and a ceremony in Marietta signalling the beginning of the construction added force to the previous publicity about the building of the new school plant.

Director McClure and members of the faculty and staff aided in public relations work during the report period. The director spoke at several civic clubs and chapters of Southern Tech alumni. At the invitation of Captain Horton, Commander of the Atlanta Naval Air Station, the director attended a Naval Air Corps Orientation Cruise at the Pensacola Naval Air Station on April 26 to April 28 as a guest of the Secretary of the Navy. Participants in the cruise were educators and industrial executives.

Director McClure and Registrar L. Y. Bryant made trips in December to interview applicants for admission to Southern Tech in the Winter Quarter of 1960.

Mr. McClure, Mr. Bryant, and Coach Lockhart again represented the school at College Days in schools outside the Atlanta area. Mr. McClure, Mr. Bryant, Mr. Lockhart, Mr. Carroll, Mr. Alford, Mr. Goodwin, and Mr. Steinkamp attended the local College Days. Mr. Goodwin, Mr. Carroll, Mr. McClure, and Mr. Thomas spoke at Career Days in local high schools.

Mr. Carroll and Mrs. Simmons again scheduled the speakers for College Days, and Mrs. Simmons handled the correspondence and mailed the literature to the schools prior to their College Days.

During the Winter and Spring Quarters Mr. Carroll visited the counselors in all the Atlanta, DeKalb County, and Fulton County systems and those at Decatur High, Marietta High, Sprayberry High, and Campbell High at Sayras--a total of 38 schools.

Mr. L. V. Johnson, now director of the Extension Division, Mr. McClure, Mr. Carroll, Mr. Goodwin, and Mr. Hays attended the National Convention of the American Society for Engineering Education at Pittsburgh in June 1959. Director McClure, Mr. Goodwin, Mr. Taylor

and Mr. Steinkamp will attend the ASEE convention at Purdue University in June.

Mr. Bryant, Mr. Carroll, Mr. Crawford, Mr. Defore, and Mr. Hays attended the annual convention of the Georgia Association of Junior Colleges at Gordon Military College in October 1959.

Mr. Bryant represented Southern Tech at the annual conference of the Georgia Vocational Rehabilitation Division at Savannah in August 1959. Mr. Bryant reviewed with counselors the progress of Vocational Rehabilitation students at Southern Tech and acquainted other counselors with the type of technical education, courses, entrance requirements, and cost at Southern Tech.

Mr. Bryant also attended the 56th annual meeting of the American Association of Collegiate Registrars at Los Angeles from April 18 through April 22, 1960, where he received valuable information about college education in general and about the work and the problems of the registrar.

Mr. John I. Alford, head of the Department of Textile Technology spent most of the summer calling on the mills of the state, doing enrollment work and giving publicity to the textile program for both Georgia Tech and Southern Tech. He has visited seventy-five mills during the report period. Since the beginning of the 1959-60 academic year, he has visited the principals or counselors and the D.C.T. coordinators of eighteen high schools to interest them in the textile program and to set up lines of communication between them and the mills located in their areas. Mr. Alford is an honorary member of the Phi Psi Textile fraternity and a member of the advisory board of the Boy Scouts of America.

Mr. Jesse J. Defore was selected by the Engineers' Council for Professional Development as a member of an accreditation team to conduct an accreditation inspection of the Ohio College of Applied Science from April 4 through April 6. Atlanta Radio Station WQXI selected Mr. Defore as its "Citizen of the Day" because of his appointment to the accreditation team.

Mr. J. P. Goodwin and Mr. Robert C. Carter attended the Instrumentation Conference of the Institute of Radio Engineers at the Atlanta Biltmore Hotel in November 1959. Mr. Goodwin served on an ECPD accrediting committee inspecting the Alabama Technical Institute during 1959. During the report period Mr. Goodwin has evaluated surplus electronics equipment for the State Agency for Surplus Property; held several conferences with the representatives of the electrical industry to evaluate the ability of Southern Tech electrical graduates and to determine whether course revisions were necessary; and conferred with an official of Central Technical Institute to arrange a method of evaluating courses for transfer credit between technical institutes.

Mr. R. W. Hays, with the aid of Mrs. Armenta Simmons, has again done an outstanding job with the publicity and public relations. Mr. Hays and Mrs. Simmons have sent out forty general press releases to approximately 1032 outlets. They have prepared and mailed to parents and wives of students who have graduated or made the honor roll, or both, 722 congratulatory letters and have sent in duplicate with the letters 552 press releases about these students, making a total of 1104 possible outlets reached through the media of "home-town newspapers and radio stations,"

Mrs. Simmons has sent copies of the 1960-61 catalogue to approximately 367 Georgia high-school libraries and to approximately 575 recipients on the cumulative mailing list, comprised of people in industry, other colleges, and out-of-state schools. Mr. Hays and Mrs. Simmons, with the cooperation of the staff secretaries, have prepared and sent to high-school counselors, U. S. Employment Offices, Vocational Rehabilitation Counselors, and general inquirers two lithographed letters. Each letter was sent to a mailing list of approximately 1000 to 1200 addressees.

Mr. Hays directed the preparation and presentation of a series of radio programs under the title "Science Can Be Interesting." The programs were recorded on tape by Mr. Defore, Mr. Hays, Mr. Holladay, Mr. Steinkamp, Mr. Taylor, and Mr. Thomas and were presented in March and April by the Georgia Tech Station, WGST, and during May and June by Station WMOC in Covington, Georgia.

Mr. C. T. Holladay, head of the Civil Technology Department, who is vice-president of the Georgia Association of Registered Land Surveyors, was instrumental in arranging for this organization to give a \$50.00 award each year to the outstanding student in Civil Technology. Mr. Holladay spoke to the Georgia Cemetery Officials Association on the subject of surveying and served as a consultant for planning of the streets for the new campus. He is a member of the Georgia Society of Professional Engineers.

Mr. Albert Ordway and several students of Arch. T. 222 and Arch. T. 224 attended hardware seminars sponsored by the American Institute of Architecture in February and March 1960 at the Architects and Engineers Building.

Mr. Ordway also served as a counselor at a seminar for high-school students, which was held in April at the Architects and Engineers Building under the sponsorship of the American Institute of Architects.

Mr. C. R. Orvold, head of the Building Construction Department, and Mr. Ordway arranged for a display of drawings and scale models of buildings prepared by Southern Tech students to be exhibited at the Atlanta Art Festival at Piedmont Park in May. The Building Construction Department has a year-round display of drawings and

scale models in the Architects and Engineers Building and has displays in several real-estate offices in different cities of Georgia.

Mr. A. L. Steinkamp, head of the Industrial Technology Department, spoke to the Smyrna Kiwanis Club about Southern Tech and the new campus at Marietta. Mr. Steinkamp sponsored a drive for books for the City of Smyrna Library and for the Southern Tech Library. He plans to attend the Industrial Engineering Summer School at Purdue University June 18 and 19.

At the request of the McGraw-Hill Book Company, Inc. Mr. Steinkamp prepared a review of the manuscript for a new book entitled Perceptive Management and Supervision.

Mr. L. H. Taylor, head of the Heating and Air Conditioning Department, is a member of the Committee for Student Selection and Guidance of the Technical Institute Division of the American Society for Engineering Education. In April 1960 Mr. Taylor served with Mr. L. V. Johnson on an examining team of the ECPD for accreditation of the technical institute curricula at the University of Houston.

Mr. W. L. Thomas, head of the Gas Fuel Technology Department, reports that relations with the Liquefied Petroleum Gas Association have improved tremendously. The organization has promised an additional \$10,000 for the LPGA loan-scholarship fund for gas fuel students and has agreed to assist Southern Tech in getting donations of equipment from manufacturers. Mr. Thomas and some students represented Southern Tech at the Southeastern LPGA Convention in Atlanta in April and at the National LPGA Convention in Chicago in May 1950.

The fluid-flow display mentioned under Research attracted much favorable interest at both conventions.

Mr. Ralph Youngblood was selected by Radio Station WSB, Atlanta, as the recipient of its daily "750 Award" in recognition of his having received the National Science Foundation Award.

Southern Tech became the first college in the Southeast to be granted a charter for a student associate branch of the Institute of Radio Engineers. Only seventeen groups in the nation hold associate charters. The charter was presented in a ceremony held May 7 at Chamblor.

Twenty civilian project supervisors from the Army Transportation Supply and Maintenance Command at St. Louis attended an intensive short course in mathematics, technical writing, and blueprint reading at Southern Tech from July 20 to September 11, 1959. Mr. R. W. Hays ably coordinated the short course and served as instructor of technical writing. Mr. Harry Smith and Mr. C. A. Amntson were instructors of mathematics and blueprint reading.

Representatives of the Ruid Company, the Noland Company, and the Atlanta Gas Light Company, officials of the State Public Health Service, consulting engineers from the area, and gas fuel students from Southern Tech participated in the Ruid-Noland commercial water heating school held at Southern Tech on March 2 and March 4.

The first home-coming celebration for Southern Tech was held on Saturday, December 5, from 9 to 12 in the morning and the annual meeting of the alumni took place that evening in the Dixie Ball Room of the Henry Grady Hotel.

#### VII. New Construction:

There was no new construction on the present campus. The construction of the plant at Marietta began in April 1960 and is currently in progress.

#### VIII. Gifts:

The Georgia Association of Registered Land Surveyors, through the efforts of Mr. Holladay and the Civil Technology Department, is giving an annual award of \$50.00 to the outstanding student in Civil Technology.

The Electrical Technology Department received from the Southern Bell Telephone Company two repeater terminals for a telephone system and a carrier telephone system from the Kellogg Switchboard and Supply Company.

Telephony Publishing Corporation, publisher of Telephony magazine, has announced a scholarship of \$500 a year for students who wish to earn the Associate in Science Degree in Telephone Technology.

William Lee, a Southern Tech alumnus, gave the school a binaural speaker system valued at \$600.

The Georgia Engineering Society continues to give its annual award of \$25.00 and a certificate to the most outstanding student at Southern Tech.

#### IX. Appraisal of Progress:

I am glad to be able to report that Southern Tech has made significant progress during this twelfth year of its history.

Although our enrollment suffered a decrease for the first time in several years, indications are that this condition is temporary. In fact our pre-registration figures for next fall are running well ahead of those for last year.

The recognition of the quality and the level of the work at Southern Tech continues to grow. Credit Given, the Registrar's handbook, has raised our rating from "D" to "B." The starting salaries of our

graduates continue to rise, the March graduates getting an average of \$401 per month.

Progress on our new campus has been steady, although it seems slow to the faculty and the student body. The county has done all of the rough grading for the roads and parking lots, has installed the water mains and sanitary sewage lines, and has electrical service to the campus area.

The Coite Soners Company of Vidalia was selected as contractor on March 1 and was ordered to start work not later than April 5, 1960. The estimated building time of 425 calendar days indicates that the campus should be completed in June 1961. Work is now getting under way with footings and foundation walls virtually complete on the Administration Building and work started on the Classroom and Shop Buildings.

Last summer 2-3/4 additional acres of land on the southeast edge of the campus was purchased with Southern Tech's unappropriated surplus funds. This property fills out a corner of the new campus and brings the total acreage to approximately 119 acres.

#### X. Difficulties and Problems:

Our decreased enrollment this year has been a matter of some concern, but is one we expect to overcome. We are increasing our counselor mailings to try to better inform high-school personnel of the qualifications a student must have to successfully negotiate our curricula.

Heating was a major problem this year. Since the County has operated our heating system, the cost has been enormous. Both the County and Georgia Tech are working on the problem, however, and I believe this problem will be alleviated next year.

Southern Tech still is in serious need of adequate financial support. Because of the strong scientific and engineering background that our faculty needs, we find ourselves in a poor competitive position either to hire or to retain faculty from industry or other institutions. In fact, we have found this year that we cannot match the salaries of some staff positions in DeKalb County public schools. Our state support continues well below the average given other units of the University System.

We hope that our move to our permanent campus next year will result in an improved financial position.

#### Conclusions:

This is my first annual report as Acting Director of Southern Technical Institute, and the difficulty of succeeding such an able leader as Mr. L. V. Johnson has become quite apparent. However, his



kind and thoughtful guidance and the wholehearted cooperation of the Southern Tech and Georgia Tech faculty and staff have made the job much easier.

I can sincerely say that I am proud to be associated with such loyal and dedicated people, and I pledge my best efforts to further the ideals and goals of Georgia Tech and Southern Tech.

Sincerely,

H. L. McClure  
Acting Director  
Southern Technical Institute

HLM:as



## Secretaries: (continued)

## Resignations:

Covington, Jeanette	Secretary
Flanders, Joyce	Stenographer
Hudson, Iris	Clerk-Stenographer

## 2. On Leave:

Darksdale, Richard D.	Working on degree at Georgia Tech
Hutcheson, Kermit	At Miami University (Ohio), setting up and operating computer center
Stone, Ernest R.	Working on graduate degree at University of Georgia

## 3. Doing Graduate Work While In Service:

Blair, Marion E.	Myatt, Robert L., Jr.
Bowles, Joseph E.	Nahari, Gideon
Chan, Myung Soo	Richardson, G. M.
Cowan, Clifford M.	Taylor, L. H.
Deming, Richard G.	Watkins, Robert B.
Dunn, John E.	Youngblood, Ralph P.

## Doing Work Toward Bachelor's Degrees:

Baker, Virgil D.	Lawson, George M.
Burton, Walter E.	Newton, Jack W.
Goodwin, James P.	Thomas, Weldon L.

## To Receive Degrees Before July 1, 1961

Bowles, Joseph E.	M. S., Georgia Tech
Chan, Myung Soo	M. S., Georgia Tech
Lawson, George M.	B. S. in Education, Oglethorpe
Richardson, G. M.	M. S., Georgia Tech

Mr. Joseph E. Bowles has been licensed in Georgia as a Registered Land Surveyor. He has also received his Engineer-in-Training Certificate.

Mr. Jesse J. Defore has again been a member of an inspection-accreditation team of the Engineers' Council for Professional Development. He has inspected Ohio College of Applied Science, and Embry-Riddle in Miami, Florida. Mr. Defore has been selected to go to England in the fall on the Technical Institute Teacher Exchange program of the English Speaking Union.

Mr. David L. Ewing has received a National Science Foundation grant to take three courses in physics at East Tennessee State College during the summer quarter.

Mr. Ernest Stone, Mr. L. H. Taylor and Mr. Ralph Youngblood

studied at the University of Houston during the summer of 1960 on National Science Foundation grants.

Mr. T. Marvin Sullivan received the Engineer-in-Training license during the winter quarter of 1961. He has also been selected to attend the National Science Foundation Summer Institute at the University of Houston.

Mr. Leonard H. Taylor has been licensed by the state of Georgia as a Professional Engineer.

Director McClure was selected for membership on the National Committee of the Technical Institute Division of the American Society for Engineering Education.

Mr. Joseph Lockwood, Mr. Edward L. Reese, and Mr. Harold R. Nurse, first Southern Tech faculty members to be retired, were honored at a commemorative banquet on May 20. They were presented with gifts, and their names were engraved on a plaque presented by the Southern Tech Alumni Association.

#### 4. Research, Creative Work, Publications:

Registrar Loy Y. Bryant has written a monograph titled Southern Technical Institute and the Engineering Technician, which has been sent to high-school counselors in Georgia and Florida.

Mr. Robert C. Carter has published two manuals on the use of the aliderrule:

Slide-Rule Supplement I, S, T, and ST Scales

Slide-Rule Supplement II, Log-log and Log Scales

Mr. Robert W. Hays has participated in a Georgia Tech seminar on machine translation.

During 1960-61 Mr. Hays has published seven articles:

"Southern Tech Supplies Vital Technicians for LP-Gas Industry," Alabama LP-Gas News. June 1960. Vol. VIII, No. 10. pp. 4,13,15.

"The Corporation and the Modern Novel," Advanced Management. December 1960. Vol. 25, No. 12. pp. 4-7.

"Industrial Management and Engineering Technicians," Chronicle Occupational Briefs. December 1960. 87a. pp. 1-8.

"How Much Does Industry Pay Technicians?" (with Mildred T. Wilson and J. A. Hall) Technical Education News. January 1961. Vol. XX, No. 3, pp. 4-6.

"Southern Technical Institute," Research Engineer.  
February 1961. Vol. 16, No. 1. pp. 4-5.

"What Is Technical Writing?" Word Study. April 1961.  
Vol. XXXVI, No. 4. pp. 16-20.

"Machine Translation," Research Engineer. April 1961.  
Vol. 16, No. 2. pp. 16-20.

He has had three articles accepted for future publication: one concerning Southern Tech, one on gas fuel training, and one on a small library.

Mr. Hays is currently working on a text in technical writing and an article on communications.

Mr. Blair and Mr. Hays have prepared a manuscript on remedial English, which is still in the hands of Wiley Publishing Company.

5. Faculty in Regular and Summer Sessions:

Full-time teachers in regular session	.....	54
Full-time teachers in summer session	.....	30

6. Classification of Faculty According to Ranks:

Professors	.....	6
Associate Professors	.....	13
Assistant Professors	.....	15
Instructors	.....	10
Special Lecturers	.....	10

7. Average Faculty Salaries (Academic Year):

Professors and Deans	.....	\$6862.00
Associate Professors	.....	6562.00
Assistant Professors	.....	5273.00
Instructors	.....	4960.00
Special Lecturers	.....	4785.00

8. Faculty and Teaching Loads:

Average student load per teacher	.....	13.7
Average credit hours taught by teachers	.....	11.8
Clock hours	.....	17.3
Equivalent clock hours	.....	46.1
Student credit load hours	.....	253.1

9. Appraisal of Work:

Instruction has been generally good. Morale has improved because state schools do not appear likely to close.

## II. Students and Enrollment:

1. Average enrollment for regular session	.....	752
Cumulative enrollment for regular session	.....	967
Average and cumulative enrollment for summer quarter 1960	.....	379
Average enrollment for entire year	.....	659
Total cumulative enrollment	.....	1128

2. Quarter	Veterans		Non-Veterans		Total		Sum Total
	M	W	M	W	M	W	
Summer 1960	61	0	318	0	379	0	379
Fall 1960	57	0	739	1	846	1	847
Winter 1961	56	0	686	1	742	1	743
Spring 1961	42	0	624	1	666	1	667

Of the 1128 students on the cumulative roll in 1960-61 only one was a woman. One hundred and seventy-two (172) of the 1128 (15.2%) were non-residents of Georgia, and 956 were residents. Ninety-four (94) of the 1128 (8.33%) were veterans; 1034 were non-veterans.

3. During the regular session of 1960-61 Southern Tech conferred 191 Associate in Science degrees, if the seventy June 1961 candidates complete their work successfully.

Associate in Science degrees earned during the summer quarter 1960, totaled 69.

Total number of degrees awarded in 1960-61 was 260 (246 students; 260 degrees). Fourteen students received more than one degree.

4. Number of Students in Extension and Special Courses:

No special courses were offered by the Southern Technical Institute in 1960-61.

5. Quality of Scholastic Work:

No evidence exists to prove that the quality of scholastic work at Southern Tech improved throughout 1960-61. In fact, in one respect the situation looked worse in 1960-61 than in previous years. More students in 1960-61 were placed on probation and more were dropped from the rolls because of a new regulation passed in the fall quarter to the effect that students who failed one of the remedial subjects--English 10, Math 10 (Remedial Algebra), Math 6 (Plane Geometry)--twice would be dropped from the rolls. Some figures on this specific problem and the more general one of scholarship at Southern Tech follow.

(See next page)

Probation--Drop Statistics

<u>Quarter</u>	<u>Probation</u>	<u>Drop</u>	<u>Reinstated</u>
Summer 1960	13	35	6
Fall 1960	103	25	3
Winter 1961	30	40	4
Spring 1961	Inc.	Inc.	Inc.

Overall Point Averages of Graduating Classes

Summer 1960	2.33
Fall 1960	2.43
Winter 1961	2.50
Spring 1961	2.41 (last quarter not included)

Twenty of the 246 graduates made point averages high enough to win honors, (8.1%). Eighteen more made the STI Honor Roll by achieving an overall average of 3.00 or better.

Two hundred and forty-six of the 1128 students on the cumulative roll graduated, (21.8%).

## 6. Student Activities:

The Student Council, the campus-wide clubs, and the departmental clubs were active during the year.

At the annual Valentine Dance in February the students selected as "Miss Southern Tech," Miss Diane Stynchcombe, a twenty-year-old secretary.

The Technician and the Technician's Log continued to be outstanding publications, with Mr. J. B. Sojourner continuing as adviser. The Technician for the fourth consecutive year, was rated as "First Class" by the Associated Collegiate Press.

Coach Harry Lockhart again directed intercollegiate and intramural sports, with the assistance of Mr. Gangloff, Mr. Myatt, and Mr. Smith. Eighteen students were selected for intercollegiate basketball, and the team played a varsity schedule with teams in the Georgia Junior College Athletic Association and freshman teams and teams in the Florida Junior College Conference. The "B" team played twelve-game schedule against high-school teams in the Atlanta area. The baseball team of twenty-one players played a fifteen-game schedule in the Georgia Junior College Athletic Association. The intercollegiate golf and tennis teams played several matches and made good showings in the Junior College golf and tennis tournaments at Barnesville. The track team participated in several meets with teams from colleges and junior colleges and finished third in the state meet at Douglas. Intramural touch football, basketball, softball, golf, volleyball, track, and ping pong were played, with approximately 375 students and faculty participating.

7. Co-op Department:

Mr. W. L. Thomas continued as co-op director. The program is still attracting a good many students who must work to earn their expense money.

8. Placement Activities:

In spite of the good supply of job opportunities, graduates seem to be exercising more maturity in their selections. They are investigating more opportunities before their final selection and are being encouraged to conduct campaigns independent of the Placement Department.

More companies visited the campus this year, but, because of the uncertain business climate, were more cautious in making offers.

The greatest demand is still for electrical graduates in all three options.

Demand for better quality is evident. Job opportunities seem to vary directly as point averages; however, interviewers are looking closely for men who they feel can accept a challenge and responsibilities. As usual, men who have not yet fulfilled their military obligations are not being readily accepted. Government has been more active in seeking our graduates this year. They are hiring graduates with no experience at Grade 5 (\$4345) and upgrading them within the first year to Grade 7 (\$5355).

Interest in the graduates of the textile program has increased significantly this year.

The most comprehensive salary survey since the school began was started in April. The returns are still being received. A complete statistical compilation or tabulation will be made jointly with Mr. R. W. Hays. Salaries of the current year's graduates have ranged from \$250 to \$590 per month.

The placement director still coordinates alumni activities. The alumni are more active than ever before. Two Georgia chapters have been formed--the Greater Atlanta Chapter and the Macon Chapter--and both are functioning well. The National Chapter held its annual banquet at the Dinkler Plaza Hotel in Atlanta in December 1960.

III. Significant Changes or Improvements in Existing Curricula:

The Civil Technology Department has added a concrete testing machine to the materials testing laboratory.



The Gas Fuel Department, in cooperation with the Heating and Air Conditioning Department, has made a curriculum change to go into effect in September. The change involves an upgrading of the program to equip the graduates to assume better positions in the gas industry. The department has added a specific gravity tester and a viscosity tester to its laboratory equipment.

#### IV. Library:

Mr. R. N. Edwards continued to do superior work as supervisor of the library. Mrs. Grace Brooks, full time library attendant, and several student assistants have operated the library efficiently and have made the facilities available to the students to a greater degree than ever before. The progress toward acquiring a first-rate library "has been little short of miraculous," as Mr. Edwards stated.

Approximately seven hundred books and subscriptions to ten new periodicals have been added during 1960-61. About 525 books have been donated, approximately one hundred have been purchased by funds made available by the administration, and about seventy-five have been purchased with donated funds. Many of the books donated were duplicates from the Georgia Tech library. Georgia Tech continues to buy, catalogue, and process donations and purchases at a great saving to Southern Tech.

The library has texts and references in all but five of the individual subjects offered by the College. For the course in technical writing the library has accumulated as complete a collection as is to be found in any of the local colleges. It is known as the Luther Blair Memorial Collection in honor of the father of Southern Tech's Professor Blair.

Students may now return to the Southern Tech library books checked out at Georgia Tech, eliminating one of the two trips previously necessary when a student used the Georgia Tech library.

The administration has requested \$3,000 of capital funds and \$1,000 of supplies funds for the library for the fiscal year 1961-62. A budget position for a librarian and funds for student help have been requested.

#### V. Research:

See faculty information.

#### VI. Public Services, Publicity, Short Courses, Advisory Services:

Southern Tech, as always, was kept before the public through the efforts of Director McClure and members of the faculty and staff.

Mr. McClure, Mr. James P. Goodwin, Mr. A. L. Steinkamp, and

Mr. L. H. Taylor represented Southern Tech at the 1960 annual convention of the American Society for Engineering Education at Purdue University, June 20 through 24. At this convention Mr. McClure was elected to the National Committee of the Technical Institute Division.

Mr. McClure participated in a nationwide effort of technical educators to amend the National Defense Education Act so that technical institutes may participate in the program. In November Mr. McClure met in Washington, D. C., with a committee to draft a proposed amendment. The amendment was submitted to Congress by Congressman Van Zandt.

In October, Director McClure attended the mid-year meeting of the National Committee for Technical Institutes of the American Society for Engineering Education. The meeting, held in Montreal, Canada, for the purpose of planning activities of the Technical Institute Division for 1961.

During the fiscal year Mr. McClure made speeches to eight organizations: the Tech Annes, the Southern Tech Alumni, the Associated Industries of Georgia; the Navy Chiefs Club, the Decatur Optimist Club, the Waynesboro Civitan Club, the Albany Kiwanis Club, and the Adel Kiwanis Club.

Mr. McClure represented Southern Tech in a panel discussion at the Headland High School Career Day. In May, Mr. McClure, Mr. Alford, and Mrs. Wilson appeared on a panel program at Dalton, Georgia, sponsored by the Tufted Textile Manufacturers Association.

Mr. McClure attended the College Days of the Florida West Coast high schools and represented Southern Tech at several high schools in Georgia and in the Atlanta area. He also attended the Career Day at Murphy High in Atlanta.

Registrar Bryant and Coach Lockhart again represented the school at Georgia College Days outside the Atlanta area. Mr. Bryant, Mr. Carroll, Mr. Goodwin, Coach Lockhart, and Mr. Steinkamp attended local College Days. Mr. Alford, Mr. Goodwin, and Mr. Holladay spoke at nearby high schools on Career Days.

Director McClure and Registrar Bryant again made trips to interview applicants for admission to Southern Tech. They also made valuable contacts with principals and counselors on these trips.

During the winter and spring quarters a Visitation Committee, composed of faculty and chaired by Dean Carroll, visited counselors,

and in some cases principals, of more than sixty high schools within forty to fifty miles of Marietta. As a result of his visits to Cobb County high schools, Mr. Steinkamp was invited to speak to the counselors of the Seventh District at their meeting at Marietta High School. Dean Carroll attended the meeting and assisted Mr. Steinkamp. Mr. Steinkamp also made a talk over the radio for Southern Tech.

Registrar L. Y. Bryant represented Southern Tech at the annual conference of the Georgia Vocational Rehabilitation Division at Savannah in August 1960. He also attended the meeting of the American Association of Collegiate Registrars at Miami Beach, Florida, April 18 to April 21.

Mr. Jesse Defore, Mr. William Hurst, and Coach Harry Lockhart represented Southern Tech at the annual convention of the Georgia Association of Junior Colleges at Norman Institute in October 1960.

Mr. Defore, Mr. Goodwin, Mr. Lawson, Director McClure, and Mr. Taylor will attend the ASEE convention at the University of Kentucky in June.

Mr. C. R. Freeman was a judge at the Industrial Arts Fair at the Lenox Square Auditorium on May 12. He judged and rated the metal projects made by high-school students.

Mr. R. W. Hays, ably assisted by Mrs. Simmons, has continued his excellent work with publicity and public relations. He and Mrs. Simmons have sent 680 congratulatory letters to parents and wives of graduates and honor-roll students. Press releases in duplicate accompanied each congratulatory letter to parents for use by "home-town" newspapers and radio stations. Thirty general press releases were sent to approximately 1062 outlets.

With the aid of the staff secretaries, Mr. Hays and Mrs. Simmons have prepared three mailings to counselors, each mailing involving about 1300 direct-mail contacts. In addition, two mailings were prepared for high-school seniors on the Beta Club list who indicated preference for Southern Tech and one mailing for seniors who indicated technical-career preferences on the same list.

Mr. Hays participated with Mrs. Wilson in preparing the 1961 salary survey. He co-authored a report on last year's salary survey, which was published. A condensed salary report was mailed to counselors.

Mr. Hays prepared scripts for a radio panel and a live panel and participated in the panel on WGST.

Mr. C. T. Holladay participated in the program of a short course in surveying given at Georgia Tech in January. He made a talk on Polaris Observations to approximately a hundred people.

Mr. Holladay is president of the Georgia Association of land surveyors and is a member of the Georgia Society of Professional Engineers.

Mr. G. M. Richardson attended the convention of the Southern Economic Association, of which he is a member.

Mr. W. L. Thomas visited the Institute of Gas Technology, a unit of the Illinois Institute of Technology, in May and learned that graduates of Gas Fuel Technology at Southern Tech are highly regarded by the institute.

The Gas Fuel Department constructed a hydraulic display for the Southeastern and the National Liquefied Petroleum Gas Association trade shows. The displays were viewed by over 7,000 persons and attracted much interest. The department has also cooperated with the state fire marshall in testing various pieces of liquefied petroleum gas equipment involved in fires in the state.

Mr. Thomas attended the national convention of the LP-Gas Association, which was held in Chicago during May.

The Counselor's Guide to Technical Institutes, prepared by the Southern Tech faculty and designed and edited by the Georgia Tech Publications office has been sent to high-school and vocational rehabilitation counselors in Georgia and neighboring states.

The film "The Technician in Industry" is still in demand. Several technical institutes in other states used it during the year.

Southern Tech cooperated with the William S. Brooks Company of Atlanta in displaying a system of numerically controlled machine processes. The display, known as the Burgmaster Tape Controlled System for turret drilling, tapping, and boring, was brought to the Southern Tech campus in February.

The school received much newspaper, radio, and television publicity in connection with the crowning of Miss Diane Stynchcombe as "Miss Southern Tech" at the annual Valentine Dance.

Mr. Robert O. Arnold, chairman of the Board of Regents of the University System of Georgia, will be the graduation speaker at the commencement exercises on June 10.

## VII. New Construction:

The new campus at Marietta is about 75% complete, and faculty and students are anticipating the beginning of classes there in the fall quarter.

### VIII. Gifts:

The Georgia Association of Registered Land Surveyors, through the efforts of Mr. Holladay and the Civil Technology Department, continues to give its annual award of \$50.00 to the outstanding student in Civil Technology.

The Electrical Technology Department has received from Southern Bell Telephone Company a complete dial office that is being replaced at Temple, Georgia. It is in excellent condition and is valued at approximately \$25,000. Southern Bell has agreed to hold the equipment until Southern Tech moves in September.

The Georgia Engineering Society continues to give its annual award of \$25.00 and a certificate to the most outstanding student at Southern Tech.

A scholarship fund in the amount of \$3,149.00 has been allocated to Southern Tech by the Board of Regents.

The American Society of Tool Manufacturing Engineers awarded two scholarships of \$400.00 each to James C. Rhoades and Melvin Dodd, Jr., students in the Mechanical Technology course.

Telephony Magazine has just informed us that a \$500.00 scholarship will again be given to an outstanding student in Electrical Technology, Telephone Option.

Reliable Electric Manufacturing Company has informed us a scholarship will be given to Southern Tech by them for an outstanding student in Electrical Technology, Telephone Option.

### IX. Appraisal of Progress:

The buildings on the new Southern Tech campus are approximately 75% complete, and although construction is behind schedule, we are still expecting to be able to move in September. The quality of construction is well above average, and the finished campus should be a fine addition to the University System plant. The summer quarter has been moved forward two weeks to allow more moving time in September.

We have set up a library committee composed of faculty and alumni to see what can be done in building up our library facilities and books. Next year, for the first time, we will have a library budget and a full-time librarian.

The Liquefied Petroleum Gas industry continues to support the gas fuel technology course. They have promised to give further financial assistance as needed.

## X. Difficulties and Problems:

Our enrollment has decreased for the second year. Most of this decrease, however, is a carry-over from the previous year, because we had a much larger freshman class this year than last year. We believe, that, unless our proposed move to the new campus causes enrollment complications, we will stabilize our enrollment in the coming year.

The vocational-technical schools being set up throughout the state have been a matter of some concern. While they are training primarily at the vocational level, they are beginning to enter the technical-institute field. Indications are that this entry will be expanded as years go on. Their technical-institute offerings will be generally well below ours in level; but, unfortunately, they are using terminology that is identical to ours. Because the vocational-technical schools will be tuition-free, it is of paramount importance that our level of training be clearly defined for the general public and for high-school counselors. We are making plans to do this as far as our budget will allow. We are also planning some changes in curriculum, curriculum terminology, and course titles that will more clearly delineate the difference.

Although we are delighted with the new campus, there are some serious plant deficiencies existent. For example, we have no dormitories, and our planned use of a nearby housing project is a poor substitute. With this arrangement discipline will be difficult if not impossible.

We also have no place on the new campus that will allow an assembly of more than sixty people. With an enrollment of over 800, we will not be able to hold student assemblies until we can get some kind of auditorium.

Our moving to the new campus will be quite a problem. The entire faculty, however, is co-operating in the planning to make the move as smoothly as possible.

## Conclusions:

The problems and difficulties of Southern Tech are increasing, particularly with the impending move to the new campus this fall. With the wholehearted cooperation of the faculty and the expert guidance of Mr. L. V. Johnson, however, we expect these difficulties to be largely solved by the time of the next annual report.

Sincerely,

H. L. McClure  
Acting Director

HLM:as

June 5, 1962

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Fifteenth Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the Southern Technical Institute for the fiscal year 1961-1962.

I. Faculty:

1. Additions, Replacements, and Resignations in Faculty and Staff:

Since July, 1961, we have added six faculty members and had three retirements and four resignations.

Additions:

John L. Boshier	Instructor, Drawing Department
Marion W. Corey (half-time)	Instructor, Civil Technology
Edgar T. Fowler	Instructor, Civil Technology
Wendell B. Getchell	Instructor, Civil Technology
James R. Martin	Instructor, Civil Technology
William S. Newman, III	Instructor, Mathematics Department

Retirements:

J. E. Lockwood	Professor Emeritus, Mechanical Technology
H. R. Nurse	Instructor, Building Construction Technology
E. L. Reese	Assistant Professor, Civil Technology

Resignations:

Richard D. Barksdale	Special Lecturer, Civil Technology
Joseph E. Bowles	Assistant Professor, Civil Technology
Myung Soo Chun	Assistant Professor, Math Department
Kernit Hutcheson	Assistant Professor, Math Department (on leave 3 years)

Raise in Rank of Faculty Members:

C. R. Orvold	From Associate to Professor
W. L. Thomas	From Assistant to Associate
R. P. Youngblood	From Assistant to Associate
J. E. Dunn	From Instructor to Assistant
Herbert Eller	From Instructor to Assistant
C. W. Cowan	From Instructor to Assistant

Staff Members:

Additions:

William J. Glenn	Counselor-Interviewer
John C. Peteet	Supervisor, Buildings & Grounds
Armenta Simmons	Acting Placement Director

Evelyn Johnson	Secretary
Emogene Elliott	Secretary
Patricia Griffin	Stenographer
Eolyne Dasher	Secretary
Frances Odene Cheek	Secretary
Adele H. Cash	PBX Operator
Sylvia Meadows	Clerk-Typist
Joyce Sullivan (half-time)	Stenographer

Resignations:

Mildred T. Wilson	Placement Director
Barbara Gloyd	Secretary
Allene Stephens	Stenographer
Evelyn Johnson	Secretary
Dorothy Ann Drummond	PBX Operator
Dolores M. Arnold	Clerk-Typist

2. On Leave:

Gideon Nahari	To return to Israel because of the illness of his father.
George M. Richardson	Working on Ph. D. at University of Tennessee.

3. Doing Graduate Work While in Service:

Blair, Marion E.	Myatt, Robert L., Jr.
Bosher, John L.	Nahari, Gideon
Cowan, Clifford M.	Richardson, G. M.
Denning, Richard G.	Watkins, Robert B.
Dunn, John E.	Youngblood, Ralph P.

Doing Work Toward Bachelor's Degrees:

Baker, Virgil D.	Newton, Jack W.
Burton, Walter E.	Thomas, Weldon L.
Goodwin, James P.	



To Receive Degrees Before July 1, 1962:

Richardson, George M.

During the Fall Quarter, 1961, Mr. J. J. Defore toured technical schools in England on a Technical Teachers Exchange program sponsored by the English Speaking Union and the American Society for Engineering Education.

Mr. David E. Ewing was selected by the National Science Foundation to study nuclear physics at Iowa State University during the summer quarter, 1962.

Mr. Harry V. Smith has received a National Science Foundation grant to study at the University of Houston during the summer quarter, 1962.

Mr. W. O. Spaeth received his first-class radio-telephone operator's license on March 27, 1962.

Mr. Turner M. Sullivan was granted his registered professional engineering license for the state of Georgia on June 2, 1961. Mr. Sullivan studied applied mathematics and electronics at the University of Houston on a National Science Foundation grant during the summer quarter, 1961.

4. Research, Creative Work, Publications:

Mr. Carroll is working on an article for the American Business Writing Association Bulletin.

Mr. R. C. Carter published the following pamphlet:

Slide-Rule Fundamentals. Chamblee, Georgia: Colonial Press, Inc. September, 1961.

Mr. J. P. Goodwin has written an article to be published in Telephony magazine and has started work on a paper to be presented to the Technical Institute Division of the ASEE in June, 1962. He has reviewed two manuscripts for books to be published for use in technical institutes and has made suggestions to the authors. Mr. Goodwin has also started preliminary research on a project to determine whether electronics counting can be adapted to a manufacturing process.

Mr. R. W. Hays has had the following articles published:

"Technical Institutes; What Do They Offer Youngsters?"  
Industrial Arts and Vocational Education. October, 1961.  
Vol. 50, No. 8. pp. 8,10,14,66.

"Mt," Georgia Tech Alumnus. September, 1961. Vol. 40.  
No. 1. pp. 13-15.

"A Gas Company and a College: Customers and Partners,"  
Blue Flame News. November, 1961. Vol. 13, No. 11. pp. 4,5.

"Engineering Technicians: Essential Men in Industry,"  
Atlanta Economic Review. January, 1962. Vol. XII,  
No. 1. pp. 13-18.

"Salaries and Promotions of Technicians in Industry,"  
The [Counselor's] Newsletter. Winter, 1962. No. 7,  
pp. 16-19.

"Environment Control: Opportunity for the Well Trained,"  
School Shop. May, 1962. Vol. XXI, No. 9. pp. 20-21,23.

Mr. Hays has had a number of articles already accepted for publication. These include articles for Future; Gas Magazine; and Atlanta Magazine. In addition he is working on articles assigned by several magazines.

Mr. W. O. Spaeth designed and helped to construct an electronic "baby sitter" for the Southern Bell Telephone and Telegraph Company while employed there during the summer of 1961.

Mr. L. H. Taylor has been invited by Barber-Coleman Co. to attend an Electronic Controls and Air Distribution Application Seminar for instructors of heating and air conditioning. Scheduled time is June 18-22.

Mr. W. L. Thomas served on the Education Committee of the Industrial and Commercial Section, American Gas Association, from October, 1961 to October, 1962.

Mr. Thomas had the following articles published:

"We Help Prove that Gas Is Innocent". Butane-Propane News.  
July, 1961. Vol. 23. No. 7.

"Work - Learn Plan Pays Off for Marketers." LPGA Times. July, 1961.  
Vol. 7. No. 3.

"The LP-Gas Industry Needs More Gas Technicians". LP Gas. June, 1961.  
Vol. 21. No. 6.

"The Gas Man is Vulnerable". Alabama LP-Gas News. June, 1961.

5. Faculty in Regular and Summer Session:

Full-time teachers in regular session	.....	51
Full-time teachers in summer session	.....	27

Teaching of Administrative Officials:

Deans	.....	approx 1/2 time
Heads of degree-granting depts.	.....	67-78% time
Heads of non-degree-granting depts.	.....	78-89% time

6. Classification of Faculty According to Rank:

Professors	.....	7
Associate Professors	.....	13
Assistant Professors	.....	12
Instructors	.....	12
Special Lecturers	.....	7

Average Faculty Salaries (Academic Year):

Professors and Deans	.....	\$7368.00
Associate Professors	.....	6832.00
Assistant Professors	.....	5625.00
Instructors	.....	5291.00
Special Lecturers	.....	5214.00

7. Faculty and Teaching Loads:

Average student load per teacher	.....	16.1
Average credit hours taught by teachers	.....	12.3
Clock hours	.....	17.5
Equivalent clock hours	.....	47.3
Student credit load hours	.....	293.3

8. Appraisal of Work:

Instruction has been good this year. The lift to faculty morale given by a new campus has been surprising, not only to the administrator, but to the faculty themselves.

II. Students and Enrollment:

1. Average enrollment for regular session	.....	823
Cumulative enrollment for regular session	.....	1082
Average and cumulative enrollment for summer quarter, 1961	.....	316
Average enrollment for entire year	.....	696
Total cumulative enrollment	.....	1216

2. Number of student quarter credit hours per quarter:

Summer, 1961	.....	5339
Fall, 1961	.....	16219
Winter, 1962	.....	14778
Spring, 1962	.....	14051

3. Quarter	Veterans		Non-Veterans		Total		Sum Total
	M	W	M	W	M	W	
Summer, 1961	28	0	288	0	316	0	316
Fall, 1961	31	0	861	2	892	2	894
Winter, 1962	31	0	773	1	804	1	805
Spring, 1962	35	0	734	1	769	1	770

Of the 1216 students on the cumulative roll in 1961-1962 two were women. One hundred and ninety-eight (198) of the 1216 (16.2%) were non-residents of Georgia and 1018 were residents. Fifty-three (53) of the 1216 were veterans; 1163 were non-veterans.

4.	<u>Classes at</u> <u>Undergraduate Level</u>	<u>Number of</u> <u>Classes</u>
	fewer than 10 students	19
	10-19 students	309
	20-29 students	249
	30-39 students	127
	40 or more students	21

5. During the regular 1961-1962 session Southern Tech conferred 208 Associate in Science degrees, if the 113 June, 1962 candidates complete their work successfully.

Associate in Science degrees earned in the summer quarter of 1961 totaled 62.

Total number of degrees awarded in 1961-62 was 270 (254 students; 270 degrees). Sixteen students earned more than one degree.

6. Number of students in Extension and Special Courses:

Southern Tech set up and staffed the academic offering of the Management Training course for Heating Contractors on the Georgia Tech campus. This course was arranged by the Department of Short Courses and Conferences. The classes were held from May 1 to May 30.

<u>Organization</u>	<u>No. of Schools</u>	<u>No. of Students</u>
Greater Atlanta Comfort Bureau	1	25

7. Quality of Scholastic Work:

The quality of the student's scholastic work at Southern Tech still shows little, if any, improvement. One of the chief reasons is very few good or superior students apply for admission to Southern Tech. \*The registrar and admissions officer has no other choice than to select from those who do apply. Southern Tech's scholastic standards have not been lowered. The results are that average and below average students enroll; they are subjected to a rigid course of study; those with the better preparation and the most determination and stamina succeed; a large number are lost. When all other reasons for drop-outs \* financial being a major one - are combined with scholastic discouragement and/or failure, Southern Tech's student mortality becomes about 60%. The opinion has been expressed by several members of Southern Tech's administrative staff that living conditions among resident students are not conducive to good scholastic work.

In 1961-62 (summer and fall, 1961; winter, 1962) sixty-two students were dropped for scholastic deficiencies, and 148 were placed on

academic probation. For the same quarters in 1960-61 one hundred students were dropped and 146 put on probation.

The average of the graduating point averages of classes which finished in the summer, fall, and winter of 1961-62 was the same as the average of those which finished in the same periods in 1960-61 - 2.42.

Thirty of the 270 graduates made point averages high enough to win honors (11.1%). Eighteen more made the Dean's List by achieving an overall average of 3.00 or better.

Two hundred and seventy of the 1216 students on the cumulative role graduated, 22.2%. In 1960-61 the per cent was 21.8.

\*Dr. John Hills, in his recent study, The Prediction of Grades at Southern Technical Institute and Analyses of the 1957, 1958, 1959, and 1960 Classes, states: "During the past four years there has been little change in the quality of Southern Tech's entering freshmen, as measured by SAT scores and high-school averages."

### 8. Extracurricular Student Activities and Student Conduct:

The Student Council, the campus-wide clubs, the departmental clubs, and other student organizations continued to operate as usual during the 1961-62 school year.

Mr. J. B. Sojourner continued his excellent work as faculty sponsor of The Technician and the Technician's Log.

Coach Harry S. Lockhart again directed intercollegiate and intramural sports, with the assistance of Mr. Gangloff, Mr. Lawson, Mr. Martin, Mr. Myatt, and Mr. Smith.

Twenty-two students participated in varsity basketball, playing twenty-four games in the Georgia Junior College Athletic Association. Twelve "B" game games were played against local high schools.

Twenty-six students participated in baseball for the 1961-62 season. Thirteen games were played in the Georgia Junior College Athletic Association.

The Southern Tech track team finished third in the state track meet. The golf team participated in seven matches and two tournaments. The tennis team participated in the Junior College tournament at Douglas, Georgia.

Southern Tech used the facilities at Larry Bell Park for basketball and baseball. All home baseball games were played at night in order to avoid missing classes and labs.

The intramural program was limited because of the lack of facilities on the campus. Volleyball courts were set up in the dormitory area.

The intramural track meet was very successful with over 200 students taking part. Intramural softball had a large turn out before Southern Tech moved to the new campus.

No space is available for intramural basketball or ping pong at the present time.

No students were dropped for disciplinary reasons. Conduct was comparatively good for a student body of this size.

9. Students leaving for financial reasons:

Since most students drop out between quarters and do not report the reasons, an estimate of the number of drop-outs on account of financial difficulty is impossible to make. However, it is true that many drop-outs are due to inability to meet school expenses. There would be a considerable demand for student loans and jobs, but the co-op department offers almost the only available aid of this type. The Regents' State Scholarship and a few other scholarships provided by local civic clubs are the extent of the student aid. The fact that there are usually about twenty students on Pickett and Hatcher loans indicates the need for such aid.

10. Co-op Department:

The Co-op Department has been expanded slowly during the past four years, because it was believed that a slow expansion would insure healthy growth and satisfied industrial concerns more than a disorganized and too rapidly growing department.

However, it has now been decided to actively solicit companies, which the co-op department is presently doing. At the present time, there are approximately 105 students and 40 companies participating in this program.

11. Placement Department:

Mrs. Mildred T. Wilson resigned as Placement Director on November 1, 1961, and Mrs. Armenta V. Simmons has since that time served as acting Placement Director.

Mrs. Simmons states that, based on the time she has been in placement, job opportunities have been plentiful and very good. Even more companies would have visited the campus for interviews had there been more candidates in the various options signing up for interviews.

Many of the candidates for graduation are faced with their military obligations ahead which narrows the number of graduates available for employment each quarter. Demand for better quality is still quite evident and companies are learning that they must make early interview appointments in order to talk to the top men in the class.

Salaries for the current year's graduates have ranged from a low of \$200 to a high of \$535 and some anticipate much more by virtue of their compensations depending upon their abilities in sales and in businesses of their own. Such a salary of \$200 is brought about by an occasional graduate failing to campaign actively and then accepting the first opening that comes along.

The placement office still coordinates alumni activities. The Greater Atlanta Chapter is working to become better established, and other alumni in several locations have expressed interest in forming chapters. The National Chapter held its annual banquet at the Dinkler Plaza Hotel in Atlanta in December, 1961.

## 12. Counseling:

Mr. W. J. Glenn, Southern Tech's first counselor-interviewer, has been very active in familiarizing high school students, counselors, and principals with the opportunities at Southern Tech. He has coordinated the College Day program and has made twenty-two College Day trips himself. Mr. Johnson represented Southern Tech and Georgia Tech at a number of College Days in Florida, and Mr. Bryant attended twenty-one College Days. Mr. Carroll, Mr. Goodwin, Mr. McClure, Mr. Maddox, Mr. Reese (retired), and Mr. Stånkamp represented Southern Tech at other College Days.

From January to the first week in May, Mr. Glenn made seventy-four visits to sixty-eight high schools in the metropolitan Atlanta area and within an hour's drive from Marietta. He talked with principals, counselors, and sometimes, students.

Mr. Glenn has administered the scholarships for 1961-62. Eleven students were awarded Regents' State Scholarships this year, and four civic clubs have set up scholarship-loan funds for Southern Tech students. Five other organizations have shown an interest in establishing such funds.

Mr. Glenn has counseled students on personal, academic and financial problems and has handled the majority of the local interviewing of prospective students and of persons seeking information about the school. Mr. Maddox and Mr. Bryant have done a good deal of the local interviewing, and Mr. Glenn, Mr. Bryant, and Mr. McClure have made interview trips to several parts of the state.

Mr. Glenn is administering a testing service, using the Kuder Vocational Preference Record Tests, the Otis Quick-Scoring Mental Ability Tests, and the Bennett Mechanical Aptitude Tests to aid in determining student aptitudes and interests.

## III. Significant Changes or Improvements in Existing Curricula:

Calculus has been added to all curricula except Textile, and major revisions have been made in the Electrical, Industrial, and Mechanical Departments to upgrade the curricula and to change them to meet the demands of industry. The Electrical Department has added five

credit hours of mathematics to the power and electronics options and ten credit hours of mathematics to the telephone option. Laboratory equipment is being rebuilt, and manuals are being rewritten to modernize the laboratory program. Approximately \$10,000 was spent on several items of laboratory equipment to upgrade the laboratory experiments.

Industrial Technology has added calculus, statistics, and economics, and has added to the existing courses in Materials Handling and Accounting. This department has dropped Machine Shop, Industrial Sales & Purchases, Small Business Management, and Industrial Analysis.

Mechanical Technology has added calculus, industrial economics, and tool design and has dropped Industrial Safety I, Supervisory Training, Industrial Sales & Purchases, and Business Law. Several items have been purchased for the inspection laboratory to improve the teaching of precision measurements, and a film projector has been purchased to make possible a better job of teaching Tools and Methods and to aid with other subjects.

Four non-credit remedial subjects have been planned for the summer quarter for students who do not fully qualify for entrance: Math 6 (geometry), Math 10 (algebra), English 10 (Comp. and Rhet.) and English 50 (Rapid Reading).

The word engineering has been added to the names of all degree-granting departments except Building Construction Technology; for example, Civil Technology will now be Civil Engineering Technology. The degrees have been changed accordingly. All degrees except those in Building Construction will be Associate instead of Associate in Science; for example, Associate in Civil Engineering Technology. The degree from the Building Construction Department will read Associate in Engineering in Building Construction Technology.

#### IV. Library:

All furniture and fixtures are new and designed for library use in our new location.

The books are housed on metal adjustable shelving with space to house 10,000 books. There is a seating capacity of 128 persons and almost every morning this capacity is exceeded.

The number of books has increased more than 20% and the periodicals more than 15% this year, and a similar increase is expected next year. The library remains open and attended 84 1/2 hours per week.

The library is building as rapidly as funds are available toward meeting Southern Association standards, but does not yet meet them. Southern Tech students are eligible to use the Georgia Tech library, however, the geographic inconvenience makes this usage very restricted.

The annual allocation for books and periodicals should be at least doubled.



Number of volumes added during year . . . . . 700  
Number of volumes at end of year . . . . . 3,000

V. Research:

Research was described under faculty information.

VI. Public Services, Publicity, Short Courses, Advisory Services:

The big event of the year was the Dédication and Open House Day on Sunday, May 6. Approximately 3,000 persons were on hand to witness the ceremonies and to inspect the new campus. Mr. R. W. Hays, as chairman of the Open House Committee, did an excellent job of organizing and publicizing this event.

Mr. Hays continued to serve as director of publicity. He prepared radio programs, arranged for Southern Tech's float in the Cobb County Fair, presented the new Miss Southern Tech to the public, and with the aid of Mrs. Simmons, Mrs. Cheek, and others, sent out 48 press releases to at least 31 news outlets, 2,000 night-school brochures, 13,000 Open House invitations, and 3,000 Southern Tech new campus announcements.

A Speakers Bureau was organized during the Fall Quarter, 1961, with Dean G. L. Carroll as chairman.

Director H. L. McClure spoke at nineteen civic clubs, six school PTA meetings, the Marietta Girl Scouts and the Marietta Association for Gifted Children. Mr. McClure also spoke at a meeting of the Tau Alpha Pi Honorary Society, an Atlanta chapter of Southern Tech alumni, and handled a one hour question-and-answer program on technical education on radio station WQXI.

Mr. L. V. Johnson spoke at five Georgia Kiwanis clubs during the report period. Mr. Johnson, Mr. McClure, and Mr. R. W. Hays presented radio programs on two local stations - WFOM, Marietta - WGST, Atlanta.

Mr. L. Y. Bryant gave a talk at the Gray, Georgia, Kiwanis Club. Mr. G. L. Carroll spoke to the Tau Alpha Pi Honorary Society and represented Southern Tech in a panel discussion for Career Day at Sylvan High School.

Mr. W. J. Glenn spoke to the Marietta High School assembly for Confederate Memorial Day, the civics classes at Marietta High, and the Smyrna Lions Club.

Mr. J. P. Goodwin spoke to the Milford Elementary School PTA. Mr. A. L. Steinkamp spoke at the West End Kiwanis and to the Civitan Club of Atlanta.. Mr. W. L. Thomas spoke to the Atlanta Fleet Superintendents' Association on the role of technical schools in educating fleet maintenance personnel.

Mr. John Alford is chairman of a committee for Church Cuban Relief and chairman of the Committee for Leadership Training of the Atlanta Area Council. He directed three Textile Explorations for Boy Scouts of America, one at Columbus and two at Georgia Tech, with 350 students of high

school age participating. Mr. Alford visited twelve high schools and fifteen mills and spoke to the student body of Cherokee High School at Canton. He attended the meeting of Textile Operating Executives.

Registrar L. Y. Bryant represented Southern Tech on a number of College Days, interview trips, and other occasions. One occasion was a panel discussion at the PTA of Campbell High at Smyrna, at which six college representatives discussed types and levels of work at their institutions. Mr. Bryant attended the Georgia Vocational Rehabilitation Conference at Savannah in August, 1961, the annual meeting of the Georgia Association of Collegiate Registrars and Admissions Officers at Georgia Tech in February, 1962, the Emory University Financial Aid Conference on March 9, and the American Association of Collegiate Registrars and admissions officers at Kansas City, Missouri, April 23 to 27, 1962. Mr. Bryant prepared for distribution to counselors, principals, and parents "Freshman Class Profile - Fall, 1961" to help them to know Southern Tech and its students better.

Mr. W. J. Glenn was Division leader of the YMCA Membership Drive and member of the Scholarship Committee of the Marietta Lions Club. Mr. Glenn attended a meeting of University System Directors of Student Aid at the State Office Building in September, 1961, the Atlanta Area High School Counselors' Day at Georgia Tech on February 9, 1962, the Georgia Association of Collegiate Registrars and Admissions Officers at Georgia Tech, February 12 and 13, 1962, the Georgia Collegiate Directors of Student Aid at Emory University, March 9, 1962, the University System Student Personnel Workers, State Office Building, March 22, 1962, and the Seventh District Counselors Dinner at Marietta, April 24, 1962.

Mr. J. P. Goodwin spoke at the Career Day program at Murphy High. He participated in the ECPD conference on standards for accreditation of technical institutes, as did Mr. McClure, Dean Crawford and Prof. Holladay. Mr. Goodwin is also to be a panelist in a program on the Electrical Technology curriculum at the annual ASEE meeting in Colorado.

Mr. W. O. Spaeth designed and taught short-term basic electronics courses for craft workers at the Southern Bell Telephone and Telegraph Company during the summer of 1961.

Eight boys from Southern Tech's Gas Fuel Department attended the Atlanta LP-Gas trade show March 27-28, at the Atlanta Biltmore Hotel.

Mr. W. L. Thomas and five students from the Gas Fuel Department attended the National LP-Gas convention in Chicago from April 28 to May 3. Southern Tech had a display at this convention which received a great deal of attention and apparently is to be mentioned in several forthcoming magazine articles. This display was built by students in the Gas Fuel Department.

The only short course was the Management Training Course for Heating Contractors offered on the Georgia Tech campus under sponsorship of Short Courses and Conferences.

Mr. McClure is to chair a panel discussion of the Industrial Technology curriculum at the ASKE Meeting in Colorado this June. In addition to Mr. Goodwin mentioned above, Professor Vaughn is to be a panelist on the Building Construction program, and Prof. DeFore will report on his trip to England at the same meeting.

VII. The move to Marietta was made one week late for the beginning of fall quarter, 1961. The contractors' work on the new campus was completed during the year. It is estimated that over \$100,000 will be spent during the next fiscal year on general land-scaping and addition of several items cut out of the original contract for reasons of economy.

VIII. Gifts:

The Georgia Association of Registered Land Surveyors is again giving its annual award of \$50 to the outstanding student in Civil Technology.

The Georgia Engineering Society continues to give its annual award of \$25 and a certificate to the most outstanding student at Southern Tech.

The Liquified Petroleum-Gas Association has added \$2,000 to the scholarship fund for Gas Fuel students.

Telephony Publishing Corporation, publisher of Telephony magazine again gave \$500 for students who wish to earn the Associate in Science degree in Telephone Technology.

The E. T. Barwick Foundation gave Southern Tech \$1500 for three students who are studying the Textile Technology course.

Mrs. L. Louise Parlett and Mr. Larry L. Parlett gave \$1360 to the Dean C. V. Maddox Scholarship Fund. Southern Tech alumni gave \$30 to this fund.

The Electrical Technology Department has received from Southern Bell Telephone Company a complete dial office which was dismantled, moved, and installed by the faculty with student help. It is in excellent condition and is valued at approximately \$25,000.

IX. Appraisal of Progress:

The buildings are complete except for a few minor items, such as balancing and adjusting the air conditioning in the Administration and Laboratory Buildings.

When the fall quarter started, we only had two of the eight buildings at our disposal. The faculty reacted admirably to the confusion of moving and the frustration of trying to teach in overcrowded conditions until the remaining buildings could be completed. Only their fine spirit and high morale made the transition possible.

We have straightened up fairly well since that time and all laboratories are now in use. This summer we will replace much of the run-down office furniture; and we can expect to have venetian blinds installed within the next two months.

For the first time since 1958 our fall enrollment showed an increase - 5.5%. This increase was maintained throughout the academic year, and we believe should result in an all time high enrollment next fall.

X. Difficulties and Problems:

Our most vexing and critical problem is lack of dormitories. The use of substandard apartments in a nearby housing project has proved poor for three important reasons:

- (1) The use of cooking privileges by the students results in definite health hazards. Unbalanced meals and poor sanitary conditions are the result in many apartments.
- (2) Four men to a small two-bedroom apartment makes effective study virtually impossible. Although we have maintained late library hours and have barred TV sets from the dormitories, definite decreases in academic achievement has been noted by the faculty.
- (3) The use of apartments as dormitories makes discipline very difficult to maintain. Furthermore, the poor condition and appearance of the apartments have caused approximately 150 students to move into a nearby private housing project where we have even less disciplinary control.

The possible competition of the Area Vocational-Technical schools continues to be a matter of concern; however, the changing of the curricula and degree designations and the rather extensive modification of our curricula have served to delineate better the difference in level. Mr. Glenn's work with the high school counselors in this area has also helped; however, continuous effort in this direction will be necessary for us to maintain the relative position we desire.

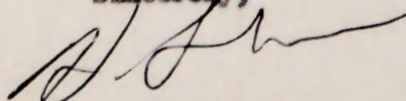
We still have no assembly place on the campus for more than 80 people. With an expected enrollment of over 900 this fall, the lack of an auditorium or gymnasium makes any kind of student assembly virtually impossible.

Our library is already congested in the mornings; however, we believe that our plans to provide two lounge areas nearby will alleviate this condition. With our expanding enrollment and with the Marietta Center of the University of Georgia planning to use our library our present facilities will not be adequate for more than two more years.

Conclusion:

Our normal problems this year were greatly increased by those of moving to a new and incompletd campus. Our faculty responded admirably to every emergency and took the many frustrations and inconveniences in stride. Further, those Georgia Tech officials with whom we have worked this year, have shown sympathy and understanding in making the transition to the new campus as smoothly as possible.

Sincerely,



H. L. McClure  
Director

June 12, 1963

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Sixteenth Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1962-1963.

I. Faculty:

1. Additions, Replacements, and Resignations in Faculty and Staff:

Since July, 1962, we have added six faculty members and had one retirement and three resignations.

Additions:

Ernest R. Stone (Returned from leave of absence)	Instructor, Chemistry and Physics
David Summers	Instructor, Electrical Department
Rolf W. Roley	Assistant, Civil Department
James L. Keen, III	Instructor, Industrial Department
Lawrence L. Parlett	Instructor, Industrial Department
Edgar Warren Shows	Instructor, Mathematics

Retirements:

Burns C. Cox	Assistant, Chemistry and Physics
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Resignations:

David Ewing	Instructor, Chemistry and Physics
Wendell B. Getchell	Instructor, Civil Department
Clifford W. Cowan	Assistant, Electrical Department

Raise in Rank of Faculty Members:

Harry V. Smith, Jr.

Appointed Acting Head of Mathematics Department

Turner M. Sullivan

From Assistant to Associate

James H. Workman

From Assistant to Associate

William S. Newman, III

From Instructor to Assistant

Hans Alfred Troemel

From Special Lecturer to Assistant Professor

Virgil D. Baker, III

From Special Lecturer to Instructor

Staff Members:

Additions:

Ernestine Kirkman

Clerk-Typist

Amanda Dobbs

Secretary

Sylvia Trotter

Secretary

Margaret Newberry

Telephone Operator

Barbara Tilley

Secretary (Half-time)

Resignations:

Patricia Griffin

Clerk-Typist

Eolyne Dasher

Secretary

Frances Odene Cheek

Secretary

Joyce Sullivan

Stenographer (Half-time)

Margaret Woodall

Secretary

2. On Leave:

Gideon Nahari

Doing consulting work in industry

George M. Richardson

Working on Ph. D. at University of Tennessee

3. Doing Graduate Work While in Service:

John L. Boshier

J. J. Defore

Richard G. Denning

John E. Dunn

Robert W. Hays

Doing Work Toward Bachelor's Degrees:

Virgil D. Baker

Walter E. Burton

Jack W. Newton

Weldon L. Thomas

Hans Alfred Troemel

Mr. Harry V. Smith successfully completed a National Science Foundation Summer Institute at the University of Houston. His study included mathematics and thermodynamics.

Mr. Ralph Youngblood received his Georgia Professional Engineer's License in June, 1962.

4. Research, Creative Work, Publications:

Dean Carroll had the following article published:

"An English Program for Technical Students." The ABWA Journal, October, 1962, pp. 7-8.

Mr. M. E. Blair is continuing his research on programmed instruction and is achieving results which hold promise for significant future developments.

Mr. Robert C. Carter has designed and almost completed one model of a type of teaching machine. He attended a computer seminar at Georgia Tech during the Winter Quarter, 1963.

Mr. J. J. Defore has served on ECPD Evaluation Teams for the Bronx Community College, Bronx, New York, and Broome Technical Community College, Binghamton, New York. As secretary of the ASEE-TIC Committee on Relations with High Schools, of which Director McClure is chairman, he has been working with Director McClure on a film strip for high school counselors on the training of engineering technicians. Mr. Defore is Program Chairman, ASEE-TID, 1963 annual meeting. He will preside at the Physical Science for Engineering Technology Meeting at the ASEE Convention in Philadelphia and will present a paper: "The Techniques of Presentation of Physical Science in Engineering Technology Curriculums." Mr. Defore had the following article published:

"Tau Alpha Pi." Student Quarterly and EE Digest, November, 1962.

Mr. J. P. Goodwin presented a paper at the ASEE-TID meeting on Electronics at the 1962 Convention at the Air Force Academy. The paper was published in Technical Education News and an abstract appeared in the ASEE Journal. Mr. Goodwin participated in the ECPD inspection of the Electronics Technology curriculum of the RCA Institutes and of the Electrical Power Technology of Milwaukee School of Engineering. He also reviewed progress reports submitted to ECPD by DeVry Technical Institute and Central Technical Institute.

Mr. Robert W. Hays has had sixteen articles published during the academic year. The list of publications of articles pertaining to Southern Tech will be submitted later. Mr. Hays has numerous other writing assignments which do not pertain to Southern Tech but which will help him to keep abreast of technical writing and of industrial development.

Mr. C. T. Holladay was a lecturer at a Short Course on Surveying and Mapping at Georgia Tech. He was a member of the ECPD accreditation team at Broome Technical Community College, Binghamton, New York, and was a consultant to General Engineering Department, University of Illinois, Urbana, Illinois, on establishment of a Civil Technology curriculum. He is Director of the Atlanta Chapter of Georgia Association of Land Surveyors and secretary of Aberdeen Forest Civic Association.

Director McClure presided at the Industrial Engineering Technology meeting of the ASEE-TID at the convention at the Air Force Academy in 1962 and will be one of the speakers at the meeting in Philadelphia on June 19, 1963. As chairman of the ASEE-TIC Committee on Relations with High Schools, he is supervising the production of the film strip previously mentioned. The director is a member of the TID National Committee, a representative to the TIC, and a member of the McGraw Award Committee.

Mr. Harry V. Smith is serving as chairman of the Self-Study Steering Committee which is working toward Southern Association accreditation for Southern Tech.

Mr. R. L. Myatt served on the ECPD inspection team at the Ohio College of Applied Science.

Mr. L. H. Taylor has served on ECPD inspection teams and is scheduled to speak on June 19 at the Mechanical Engineering Technology meeting of the ASEE Convention at Philadelphia.

Mr. W. W. Vaughn presented a paper at the ASEE Convention at the Air Force Academy in June, 1962, and has served on ECPD accreditation inspection teams for 1962-1963.

Mr. Ralph Youngblood is doing consulting work for Electrical Wire and Connector Company of Stone Mountain, Georgia.

5. Faculty in Regular and Summer Sessions:

Full time teachers in regular session . . . . .	53
Full time teachers in summer session . . . . .	29

6. Classification of faculty according to ranks:

Professors	8
Associate Professors	16
Assistant Professors	13
Instructors	11
Special Lecturers	5



7. Average Faculty Salaries (Academic Year):

Professors and Deans	\$8116.00
Associate Professors	7327.00
Assistant Professors	6062.00
Instructors	5583.00
Special Lecturers	5250.00

8. Faculty and Teaching Loads:

Average load per teacher . . . . .	15.9
Average credit hours taught by teachers . . . . .	12.0
Clock Hours . . . . .	17.3
Equivalent Clock Hours . . . . .	46.1
Student Credit Load Hours . . . . .	284.8

9. Appraisal of Work:

Faculty quality and education continue to improve. Those teaching without degrees have been reduced to five and two of those should complete requirements for a degree within two years.

Faculty morale seems to be high, and teaching quality improves with each passing year.

II. Students and Enrollment:

1. Average enrollment for regular session	901
Cumulative enrollment for regular session	1173
Average and cumulative enrollment for summer quarter 1962	348
Average enrollment for entire year	763
Total cumulative enrollment	1300

2. Number of student quarter credit hours per quarter:

Summer, 1962 . . . . .	5,731
Fall, 1962 . . . . .	17,570
Winter, 1963 . . . . .	16,316
Spring, 1963 . . . . .	14,452

3. Quarter	Veterans		Non-Veterans		Total		Sum Total
	M	W	M	W	M	W	
Summer, 1962	16	0	329	3	345	3	348
Fall, 1962	21	0	956	1	977	1	978
Winter, 1963	22	0	897	1	919	1	920
Spring, 1963	21	0	783	2	804	2	806

Six of the 1300 students on the 1962-63 cumulative roll were women. One hundred and ninety-four (194) of the 1300 (14.9%) were non-residents of Georgia and 1106 were residents. Thirty-six (36) of the 1300 were veterans; 1264 were non-veterans.

**Breakdown of Cumulative Roll by Degree-Granting Departments:**

Building Construction Technology	197
Civil Technology	224
Electrical Technology (Electronics Option)	341
Electrical Technology (Power Option)	39
Electrical Technology (Telephone Option)	32
Gas Fuel Technology	32
Heating and Air Conditioning	59
Industrial Technology	55
Industrial Technology (Management Option)	83
Mechanical Technology	193
Textile Technology	37
Special Students	8
<b>Total</b>	<u>1300</u>

**4. Classes at Undergraduate Level:**

<u>Number of Students in Class</u>	<u>Number of Classes</u>
Less than 10	22
10-19	277
20-29	304
30-39	141
40 or more	26

5. If all candidates for June 1963 graduation complete their requirements successfully, Southern Tech will have awarded 197 Associate in Science degrees in the regular 1962-63 session.

Associate in Science degrees earned in the summer of 1962 totaled 67.

The total number of degrees awarded in 1962-63 was 264 (252 students; 264 degrees). Twelve students earned more than one degree.

**6. Number of Students in Extension and Special Courses:**

There were no special courses offered during the academic year.

**7. Quality of Scholastic Work:**

Little evidence can be cited to prove that the quality of the STI student's scholastic work improved in 1962-63.

A study made by the registrar of the class of 370 who entered in 1960 shows that 41.3 per cent graduated from Southern Tech or are candidates for graduation in June, 1963. This 41.3 per cent is about a 2 per cent increase over 39 per cent of a previous study.

In 1962-63 (summer and fall, 1962; winter, 1963) seventy-two (72) students were dropped for scholastic deficiencies; and one hundred and seventy (170) were placed on academic probation. For the same quarters in 1961-62 sixty-two (62) students were dropped and one hundred and forty-nine (149) placed on academic probation.

The average of the graduating point averages of classes which finished in the summer, fall, and winter of 1962-63 was 2.46. The average for the same period in 1961-62 was 2.42.

Nineteen of the 264 graduates made point averages high enough to win honors (7.1%). The per cent last year was 11.1. Twenty-three more made the Dean's List by achieving an overall average of 3.00 or better. Last year the number was 18.

Two hundred and sixty-four of the 1300 on the cumulative roll graduated, 20.3 per cent. In 1961-62 the per cent was 22.2.

The better students scholastically still do not choose Southern Technical Institute as the college in which to pursue a curriculum in technical education.

### 8. Extracurricular Student Activities and Student Conduct:

Student Activities at Southern Technical Institute for the year 1962-63 have followed very closely the pattern of previous years.

No unusual or outstanding achievements have been made by any of the clubs. Most of them have had at least one social function per quarter. Two clubs staged campus-wide social functions. The Iota Tau (Industrial Club) had its annual Christmas Dance, and the Alpha Beta Sigma (B. C. Club) had the Valentine Day Dance at which Miss Southern Tech was crowned. Also, the Sigma Chi Tau (Civil Club) tried to stage a Street Dance on the parking lot. The weather was unfavorable; so the dancers had to move inside the Marietta Place Auditorium, which was too small for the crowd.

Some of the campus-wide clubs have served well and furnished opportunities for the student to develop leadership and serve their fellow students as well as the school. Some of these clubs are the Circle K, Toastmasters, Tau Alpha Pi, Society for Advancement of Management, Student Council, etc.

Then there are the clubs which appeal to special interests of the students, such as the Camera Club, the Ham Club, the American Society of Tool and Manufacturing Engineers, the Telephone Club (Tau Epsilon Sigma), and the IEEE.

Mr. J. B. Sojourner again did outstanding work with the Technician and the Technician's Log. However, he has asked to be relieved of his advisorship and will be replaced by a person or persons to be selected later.

Coach Lockhart was again assisted by Mr. G. M. Lawson, Mr. H. V. Smith, and Mr. F. J. Gangloff.

Twenty-five students participated in varsity and "B" team basketball. The Southern Tech varsity basketball team played twenty-nine games in the regular season and entered two tournaments. The "B" team played twelve games against local amateur teams. The varsity won eleven games and lost eighteen.

The track team ran in several meets and made its best showing in the Piedmont relays at Greenville, S. C., where it finished third in the junior college division. Twenty-two students participated in track.

The golf team won two second-place trophies in invitational tournaments and finished fourth in the state tournament.

The tennis team played only four matches and did not attend the state tournament because of a limited budget.

Twenty-eight students participated in varsity baseball as Southern Tech won its first state championship. Sixteen regular-season games were played, plus five play-off games, making a total of twenty-one games. Southern Tech represented the state of Georgia in the Southeastern Region VIII tournament and was runner-up to Manatee Junior College of Bradenton, Florida.

Southern Tech became a member of the National Junior College Athletic Association during the past year. This is the first time STI has held membership in this organization.

The intramural program is still limited because of the lack of playing space. Volleyball was played on courts in the dormitory area. Basketball was added this year, with six teams using Brumby Center at Marietta High School. The usual large turn-out for softball was experienced during the season. The field at Larry Bell Park was used. Eight different clubs took part in intramural track on the new facility at Larry Bell. Horseshoe games were played at the dormitory area.

Southern Tech won the President's Trophy which is awarded annually to the school in the Georgia Junior College Conference which displays the best sportsmanship in its overall athletic program. This trophy will be awarded to Director McClure at the fall meeting of junior colleges in Tifton.

#### 9. Students Leaving for Financial Reasons:

Again it is impossible to estimate the number of students leaving for financial reasons, since most students drop out between quarters without explanation.

10. Co-op Department:

The Co-op Department is still serving students who wish to alternate work with study. The co-ordinator can usually arrange a co-op plan for students who desire one, but the demand has been somewhat less than it was during 1961-1962.

11. Placement Department:

Mrs. Armenta Simmons, Acting Placement Director, reports that Southern Tech graduates are still in demand. Industry is stressing "quality" more and more. The reports are still very good on the performance of the graduates.

In November we sent a brochure, outlining Southern Tech's offerings, with Georgia Tech's placement mailing to industry. This brochure reached nearly 8,000 industrial and governmental organizations. We did this in an effort to increase our contacts. However, a large percentage of our graduates desire to remain in this section or at least in the South, and jobs located a great distance away get little response. There is a noticeable improvement in this situation though.

We have exerted every possible effort to bring files of graduates up to date as to job titles, salaries, etc., so that the information would be helpful to the ECFD accreditation team.

The high starting salary for 1962-63 was \$592 a month, and this was to a Civil Technology graduate. This young man had worked for these people before, and they knew his capabilities though he was only 19 years old at graduation. The HSAC field has offered unusually good salaries this year to qualified graduates, in fact, has led the field overall. The average starting salary for the year 1962 is \$410, based on information from 69 per cent of the graduates.

The placement office still coordinates alumni affairs, and we would like to point out that the current officers in both the National and the Atlanta Chapters are working hard to promote these organizations. The National Chapter has been incorporated, and the officers and members are showing great strides in their accomplishments.

12. Counseling:

Mr. W. J. Glenn continued to make contacts with high school students, counselors, and principals. He visited seventy-one high schools in the Atlanta area and personally contacted the counselors. He coordinated the "College Day" programs and participated in thirteen. Mr. Bryant, Mr. Carroll, Mr. Goodwin, Mr. Lockhart, and Mr. Maddox of Southern Tech and Mr. Eastman, Mr. Herndon, and Mr. L. V. Johnson of Georgia Tech attended the other College Days.

Mr. Glenn again administered the scholarships. Eight Regents' State Scholarships and seven civic club scholarships were awarded to Southern Tech students.

A great deal of Mr. Glenn's time is spent in interviewing prospective students. Mr. Maddox and Mr. Bryant have held a good many of the interviews locally, and Mr. Glenn, Mr. Bryant, and Mr. McClure have made interview trips to accommodate students in distant parts of the state.

Mr. Glenn administers the testing service and counsels students on personal, academic, and financial problems.

### III. Significant Changes or Improvements in Existing Curricula:

Civil Engineering Technology was divided into a Structural Option for students who plan to go to work in civil engineering where structural design and drawings for large buildings, bridges, towers, stadiums, etc., are done and a Surveying and Construction Option for students who wish to follow this type of work. The change goes into effect in September, 1963. C.E.T. 125 (Architectural Surveying, 0-3-1) was added as a service course for Building Construction students to replace C.E.T. 121.

The sequence of physics subjects has been broadened to include a short survey of Modern Physics. Physics 132, Electricity, has been changed from 5-3-6 to 3-3-4 and Physics 134, Modern Physics, is 2-0-2, making a total of sixteen quarter credit hours in four quarters.

### IV. Library:

A trained librarian for the Georgia Tech library has been assigned to help with the Southern Tech library. The library facilities are still inadequate. It will be necessary for the library to be expanded and placed under a full-time trained librarian if Southern Tech is to receive Southern Association accreditation.

### V. Research:

Research was described under faculty information.

### VI. Public Services, Publicity, Short Courses, Advisory Services:

During the academic year Director McClure attended two College Days and spoke to four civic clubs, a YWCA, a group of Baptist College students, a Methodist Men's Club, the University of Michigan alumni, the Marietta High School freshmen, the Tech Annex, and the Monogram Club. He made trips to Washington to serve as a consultant to the President's Science Advisory Committee and to attend sessions on the function of the Agency for International Development. He attended the annual convention of the ASEE at the Air Force Academy in June, 1962, and the Mid-Year Meeting at

Philadelphia. During the fiscal year he arranged for visits to Southern Tech of individuals or groups from Australia, Brazil, England, the University of Tennessee, St. Petersburg Junior College, the University of Houston, the Milwaukee School of Engineering, Oklahoma State University, the University of Chattanooga, Mississippi, and South Carolina. He is a member of the Cobb County Chamber of Commerce Education Committee, the Advisory Board of the Cobb County YMCA, and the Board of Directors of the Marietta Little League, and is vice-president of Student Chapters of the Society for the Advancement of Management.

In addition to the director, Southern Tech was represented at the ASEE Convention at the Air Force Academy by Dean G. L. Carroll, J. J. Defore, J. P. Goodwin, G. M. Lawson, and W. W. Vaughn. Mr. McClure presided at the Industrial Engineering Technology meeting, Mr. Goodwin and Mr. Vaughn were panel speakers at their respective meetings, and Mr. Defore reported to the TID on his trip to England.

Director McClure, J. J. Defore, J. P. Goodwin, G. M. Lawson, R. L. Myatt, L. H. Taylor, E. R. Stone, David Summers, and W. W. Vaughn will attend the 1963 Convention of the ASEE at Philadelphia, June 17-21. Mr. McClure, Mr. Defore, and Mr. Taylor will be panel speakers in group meetings.

Mr. John I. Alford visited eighteen mills and twenty high schools to increase the interest of students in attending Southern Technical Institute, particularly to study Textile Engineering Technology.

Registrar L. Y. Bryant represented Southern Tech at the GEA Leaders School of Instruction at the Georgia Center for Continuing Education at Athens, August 2-4, 1962. He participated in numerous College Day and College Night Programs throughout the state and attended the annual meeting of the Georgia Association of Collegiate Registrars at Calloway Gardens, Pine Mountain, February 19-20, 1962; the Conference for Student Personnel Workers, Atlanta, Tuesday, February 19, 1963; and the annual meeting of the American Association of Collegiate Registrars and Admissions Officers, New York City, April 16-19, 1963.

Dean Carroll again served as chairman of the Speakers Bureau and Southern Tech membership chairman for the ASEE. He represented the school at several College Nights and spoke to the Marietta High assembly on the occasion of the induction of new Beta Club members. He also represented Southern Tech at several meetings of the Cobb County Community Council and was a panelist on a Family Night program at the Maple Avenue Methodist Church of Marietta.

Dean Crawford did an outstanding job as chairman of the committee on preparations for the ECPD inspection and made it possible for the team to function very effectively.

Mr. Glenn participated in P-TA panel discussions at Campbell High of Smyrna and Pickens County High School of Jasper and spoke to the Hickory Hill Elementary P-TA and to the Marietta High School assembly. He was a worker in the Community Chest campaign in the fall of 1962 and was a team captain in the YMCA membership drive in the spring of 1963. He represented the Southern Tech faculty in a visit to the Rockwell Manufacturing Company at Statesboro in the winter of 1963.

Mr. J. P. Goodwin participated in Career Day programs at Murphy High School, West Fulton High School, and Hamilton High School.

Mr. R. W. Hays again arranged for excellent publicity. In spite of the lack of outstanding activities to publicize, he has sent out thirty-eight press releases and has indirectly added prestige to the school through numerous articles he has had published in various periodicals. Some of these articles have been reprinted in anthologies.

A group of students again represented Southern Tech at the Annual Convention of the LP-Gas Association at Chicago. Mr. Thomas was unable to attend because the convention was held while the ECPD inspection was in progress.

#### VII. Special Activities:

A testimonial banquet honoring Mr. B. C. Cox, who is retiring, was held at the Marietta Country Club on Thursday evening, May 16, 1963.

The five-year ECPD accreditation inspection, with Mr. Russell Beatty as chairman of the inspection team, was held May 6-7, 1963. The results of the inspection will not be reported until October.

Looking toward Southern Association Accreditation, the director appointed a Self-Study Steering Committee with Mr. H. V. Smith as chairman. Even though accreditation was originally the purpose of the Self-Study, it is believed that recommendations and improvements resulting from the study will be even more important to the school than accreditation.

#### VIII. Gifts:

Robert K. Thrower for Building Construction Department	\$250.00
Contributors to the Dean C. V. Maddox Scholarship	
Mrs. Louis Parlett and Mr. Larry Parlett	810.00
Howard Lane Griffin	10.00
Ned Fagan	10.00
Shirley Nichols	10.00
John T. Hill	10.00
Paul T. Martin	10.00
C. L. Sherrell	10.00
Jacob S. Heaton	10.00
Ralph E. Marler	10.00
Colonel Wesley C. Royer	20.00
W. E. Hart	10.00



**IX. Appraisal of Progress:**

During the past year we have spent \$150,000 on laboratory equipment. This does not represent a great gain, however, in that most of these funds were expended in replacing obsolete equipment.

The classroom building has been air conditioned and blackboards of improved quality are being installed.

The first step of our landscaping program has been taken with the letting of a \$70,000 contract for drainage ditches, catch basins, automatic sprinkler system, and expansion of concrete walks and benches. Work on this contract is well underway, and planting should begin in early fall.

**X. Difficulties and Problems:**

Our serious deficiency in dormitory facilities has become acute. The county has sold the property on which the apartments we are now using are located, and we have until June, 1965, to vacate. It appears that our application for federal housing funds has been denied, and we will be faced with at least 450 dormitory students and no dormitories.

The area Vocational-Technical schools remain a matter of concern. In fact, it is believed that they will begin to affect our enrollment this fall. In both our opinion and in the opinion of State Department of Education officials responsible for this program, their program and ours should complement, not compete. However, the individual area vocational schools are largely under local control, and those located in the metropolitan Atlanta area consider themselves directly competitive. We are attempting within the limitations of our budget to explain our position to high school counselors as well as to students and their parents.

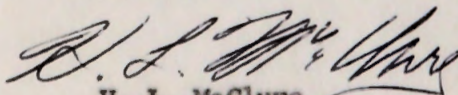
In spite of the money spent on laboratory equipment for the past two years, we are still operating with much obsolete equipment. We also have insufficient equipment in some areas to provide for classes of the size we must run for efficient operation.

**Conclusions:**

In spite of the many and apparently serious problems facing Southern Tech, the last year has shown measurable progress. We have made strides in improving our laboratory equipment, we believe that our dormitory needs are being considered sympathetically, and our student body has increased.

We, the faculty at Southern Tech, are confident that we can handle these and any other problems that may develop as well as we have in the past.

Sincerely,



H. L. McClure  
Director

June 22, 1964

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Seventeenth Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1963-1964.

I. Faculty:

1. Additions, Replacements, and Resignations in Faculty and Staff:

Since July, 1963, we have added seven faculty members and had one retirement and five resignations.

Additions:

T. W. Anderson	Instructor, Industrial Department
Parker S. Day	Instructor, Drawing Department
William M. Gordon	Ass't. Professor, Civil Department
Theodore R. McClure	Instructor, English Department
Cleon M. Mobley	Instructor, Chem. and Physics Dept.
Julia H. Parker	Librarian
Wesley C. Royer	Ass't. Professor, Mathematics Dept.

Retirements:

Albert L. Steinkamp	Professor, Industrial Department
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Resignations:

Virgil D. Baker, III	Instructor, Electrical Department
John E. Dunn	Ass't. Prof., Building Construction Department
Gideon Nahari	Assoc. Prof., Industrial Department
G. M. Richardson	Ass't. Prof., Industrial Department
Edgar W. Shows	Instructor, Mathematics Department

Raise in Rank of Faculty Members:

Harry V. Smith, Jr.  
Wilton W. Vaughn

Appointed Head of Mathematics Dept.  
Assoc. to Professor, Building Construction Department

Lawrence G. Cuba  
Edgar T. Fowler  
Rolf W. Rokey  
John L. Boshier  
John L. Keown

Ass't. to Assoc., Mechanical Dept.  
Ass't. to Assoc., Civil Department  
Ass't. to Assoc., Civil Department  
Instructor to Ass't., Drawing Dept.  
Instructor to Ass't., Electrical Department

Ernest R. Stone  
Dick B. Weir

Instructor to Ass't., Physics Dept.  
Instructor to Ass't., Electrical Department

Staff Members:

Additions:

Joan Gable  
Margaret Bowen  
Patsy Adams  
Vivian Howard (Half-time)  
LaVerne Hales (Half-time)

Clerk--Registrar's Office  
Clerk--Registrar's Office  
Clerk--Registrar's Office  
Secretary--Placement Department  
Secretary--Civil Department

Resignations:

Barbara S. Tilley  
Frances Annette Mansell  
Enogene Elliott  
Joan Gable  
Sylvia Meadows

Secretary--Placement Department  
Senior Clerk--Registrar's Office  
Clerk--Registrar's Office  
Clerk--Registrar's Office  
Secretary--Co-op Department

2. On Leave:

Jesse J. Defore  
Floyd J. Gangloff  
L. H. Taylor

Graduate work (1964-65)  
Graduate work (1963-64)  
Teaching in Pakistan (1964-65)

3. Doing Graduate Work While in Service:

John L. Boshier  
Jesse J. Defore  
Richard G. Denning  
John E. Dunn  
Robert W. Hays  
G. M. Mobley

Doing Work Toward Bachelor's Degrees:

Weldon L. Thomas  
Hans Alfred Troemel

To Receive Degrees Before July 1, 1964:

Hans Alfred Troemel	B.S., Oglethorpe University
John L. Bisher	M.B.A., Georgia State
John E. Dunn	M.S., Georgia Tech
Floyd J. Gangloff	M.Ed., Florida State

L. Y. Bryant was selected as one of forty registrars and admissions officers to attend the Summer Institute on College Admissions at the University of Virginia from July 22 to August 9, 1963. The Institute was sponsored by the College Entrance Examination Board, the Southern Regional Education Board, and the University of Virginia.

Robert C. Carter attended a computer seminar at Georgia Tech one hour each week.

Jesse J. Defore was appointed University Fellow to pursue a D.Ed. degree at Florida State.

Herbert Eller, Ralph Youngblood, and Robert L. Myatt were selected as members of an AID team conducting an institute for technical institute teachers in India.

Robert W. Hays and Marion E. Blair attended a one-day institute on technical writing at the University of Georgia in December. Mr. Hays has completed a three-hour course in creative writing from the University of Oklahoma's correspondence school.

C. M. Mobley is attending an NSF summer institute on nuclear engineering at the University of Missouri.

Ernest R. Stone attended an ASER-AEC institute on nuclear engineering at the University of North Carolina during the summer of 1963.

L. H. Taylor was selected to spend two years as a consultant at the Rawalpindi Technical Institute, Rawalpindi, Pakistan.

4. Research, Creative Work, Publications:

M. E. Blair has continued his study of programmed learning. The English Department has adopted a programmed textbook for remedial English next fall. Mr. Blair is also working on a new technique for teaching paragraph development.

Robert G. Carter and W. E. Burton designed an electrically operated quiz machine, which was completed in December, 1963, and put into operation in the Winter Quarter, 1964. Mr. Carter is writing a textbook on circuit analysis to be published in the spring of 1966.

J. J. Defore and J. P. Goodwin developed and put into operation a closed-circuit television station, which was used for teaching physics classes and electrical classes. Mr. Defore and Director McClure directed the development of a sound-film strip, Engineering Technology, which was produced as a project of the ASEE/TIC Committee on Relations with High Schools. Defore and McClure also prepared for publication in the summer of 1964 a special issue of the ASEE Journal, sponsored by the aforementioned Committee.

J. P. Goodwin and John Meintzer set up and operated the closed-circuit television station used this year for teaching a number of physics and electrical classes. Mr. Goodwin has consulted with publishers on manuscripts for prospective texts for use in electrical technology.

R. W. Hays has published seventeen magazine articles this academic year as a part-time free-lance writer. A list of these publications is attached. He is completing a textbook on technical writing to be published late this year or early next year.

T. R. McClure published an article on Robert Frost in the Marietta Journal.

C. M. Mobley did part-time research at the Engineering Experiment Station. He was co-author of a report "Exhaust Gases from Engines Having Special Controls," published by Georgia Tech on February 1, 1964.

E. J. Muller is writing a textbook on architectural drawing, to be published by Prentice-Hall, Inc.

David E. Summers and an associate have designed and developed an electronic system which is to be presented to the Department of Defense for possible adoption as part of the National Warning System to alert the public in the event of an enemy attack.

5. Faculty in Regular and Summer Sessions:

Equivalent full-time teachers in regular session . . . . .	59
Equivalent full-time teachers in summer session . . . . .	32

6. Classification of Faculty According to Ranks:

Professors . . . . .	8
Associate Professors . . . . .	15
Assistant Professors . . . . .	14
Instructors . . . . .	16
Special Lecturers . . . . .	6

7. Average Faculty Salaries (Academic Year):

Professors and Deans . . . . .	\$8412.00
Associate Professors . . . . .	7513.00
Assistant Professors . . . . .	6100.00
Instructors . . . . .	5642.00
Special Lecturers . . . . .	5770.00

8. Faculty and Teaching Loads:

Average load per teacher . . . . .	15.5
Average credit hours taught by teacher . . . . .	12.1
Clock hours . . . . .	16.9
Equivalent clock hours . . . . .	46.2
Student credit load hours . . . . .	276.2

9. Appraisal of Work:

Faculty quality and education continue to improve. While we still have five teachers without degrees, this number should decrease significantly within the next year. At least two of our faculty will complete their master's degree work during the summer of 1964, and several others have started such a program.

II. Students and Enrollment:

1. Average enrollment for regular session . . . . .	910
Cumulative enrollment for regular session . . . . .	1200
Average and cumulative enrollment for summer quarter 1963 . . . . .	395
Average enrollment for entire year . . . . .	781
Total cumulative enrollment . . . . .	1359

2. Number of Student Credit Hours Per Quarter:

Summer, 1963 . . . . .	6,498
Fall, 1963 . . . . .	17,627
Winter, 1964 . . . . .	15,965
Spring, 1964 . . . . .	14,962

3. Quarter	Veterans		Non-Veterans		Total		Sum Total
	M	W	M	W	M	W	
Summer, 1963	11	0	384	0	395	0	395
Fall, 1963	20	0	970	1	990	1	991
Winter, 1964	15	0	883	1	898	1	899
Spring, 1964	15	0	823	1	839	1	840

One of the 1359 students on the 1963-64 cumulative roll was a woman. One hundred and ninety-four (14.2%) of the 1359 were non-residents of Georgia. Twenty-nine (2.1%) of the 1359 were veterans.

Breakdown of Cumulative Roll by Degree-Granting Departments:

Air Conditioning Engineering Technology	60
Building Construction Technology	204
Civil Engineering Technology	217
Electrical Engineering Technology (Electronics Option)	328
Electrical Engineering Technology (Power Option)	34
Electrical Engineering Technology (Telephone Option)	32
Gas Engineering Technology	34
Industrial Engineering Technology	72
Industrial Engineering Technology (Management Option)	107
Mechanical Engineering Technology	212
Textile Engineering Technology	38
Special Students	21
Total	<u>1359</u>

4. Classes at Undergraduate Level:

<u>Number of Students in Class</u>	<u>Number of Classes</u>
Less than 10	19
10-19	323
20-29	364
30-39	98
40 or more	21

5. If all candidates for June 1964 graduation complete their requirements successfully, Southern Tech will have awarded 220 Associate in Science or Associate in Engineering degrees in the regular 1963-64 year.

Associate in Science degrees earned in the summer of 1963 totaled 61. Therefore, a total of 281 degrees were awarded in 1963-64 to 264 students.

6. Number of Students in Extension and Special Courses:

Contract Training: Training school conducted for industry on the Southern Tech campus.

<u>Company</u>	<u>Number of Schools</u>	<u>Students</u>
Southern Railway Company school for diesel electric maintenance	1 (Two Quarters)	10

7. Quality of Scholastic Work:

There is little evidence to show that the quality of scholarship at Southern Tech improved significantly in 1963-64. Southern Tech still does not attract the high quality needed. Although the majority come with the essential units on paper, their inadequacies soon show up in their class work.

The means on the CEEB Scholastic Aptitude Test (Verbal and Mathematical) showed little improvement.

The following data pertinent to scholarship in 1963-64 might be considered.

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>
Dropped and Probationary Students			
Dropped	62	72	102
Probationary	149	170	157
Graduation Point Averages	2.42	2.46	2.44
Number of Graduates on Dean's List	18	23	25
Winners of Honors (Graduates)	7.1%	11.1%	4.2%
Per Cent of Those on Cumulative Roll Who Graduated	22.2%	20.3%	20.6%

There is evidence enough to warrant the strong belief that next fall's beginning freshmen will be of better scholastic caliber than those of previous years. Better CEEB Scholastic Aptitude Test scores, improved high-school records, and higher first-year predicted averages are held by fall 1964 applicants.

Two steps were taken this year which should help in 1964-65 and in years to come to assure Southern Tech a better quality of student scholastically.

(1) The first-year predicted average required for entrance was raised. This one change in admission requirements will eliminate some of the poorer students who may have gained entrance otherwise. (2) Two CEEB Achievement Tests (English and Intermediate Mathematics) were added to Southern Tech's requirements for admission. Though the scores on these tests will be used in 1964-65 principally for placement, later they will, no doubt, be taken into consideration when acceptance decisions are made.

Attrition after students have been accepted and have attended for several quarters still remains one of Southern Tech's most serious problems and one which, to some extent, will be solved by better screening and more careful selection of students.

### 8. Extracurricular Student Activities and Student Conduct:

Student activities have continued to operate creditably. There were four campus-wide dances during the academic year--the Annual Christmas Dance, the Valentine Dance at which the Miss Southern Tech contest was held, the Spring Dance, and an open-air dance on the mall. The Circle K Club prepared a Student Directory, conducted a "Two-dollar-bill Day" to impress local merchants with the economic importance of STI, and provided guides on registration days.

Mr. M. E. Blair became the faculty adviser for The Technician's Log, and Mr. T. R. McClure was the sponsor for the Engineering Technician, the student newspaper. Both publications were of outstanding quality.



Coach Lockhart had another successful year in athletics, assisted by Mr. G. M. Lawson (Golf) and Mr. H. V. Smith (Tennis).

Twenty-five varsity and twelve B-team basketball games were played with teams in the Georgia Junior College Athletic Association. Robert Jordan, a freshman, was named to the All-State and All-Tournament Teams, and Bob McCoy, a senior, was named to the All-Region VIII (Georgia and Florida Junior Colleges) Team.

A twenty-one game baseball schedule was played, and Southern Tech won the Western Division championship with an 11-1 conference record but lost out in the finals of the state play-off. Jim Stancell, pitcher, Tim Matthews, catcher, Richard Wilkes, third baseman, and Ed Perkins, second baseman, were named to the All-State Baseball Team. Five regulars on the baseball team maintained scholastic point averages of 3.00 or better.

There was a good turn-out for track, tennis, and golf, and varsity teams competed in intercollegiate competition in all three of these minor sports.

Softball and basketball drew most students in intramurals. Some interest was shown in track and very little in volleyball.

Funds have been appropriated for a new gymnasium-auditorium, which should be very beneficial to the athletic program.

The Southern Tech Boosters Club was organized in the fall of 1963 and has been very active in promoting athletics. The Club has made funds available for aiding worthy students for Southern Tech athletic teams. Students are carefully selected as to their character and ability to make good grades in the classroom as well as for their athletic ability. Those who have received some aid during the current year have maintained point averages from 2.07 to 3.26.

Student conduct during the year was not perfect but was probably better than average for an institution of this size. Only three students were dismissed for disciplinary reasons.

9. Students Leaving for Financial Reasons:

No method has yet been devised to determine the number of students leaving for financial reasons, since most of those who withdraw drop out between quarters without explanation.

10. Co-op Department:

Mr. W. L. Thomas has continued to serve as co-op coordinator and has been able to arrange plans for students who desired them. The co-op operation will be transferred to the Placement Department next year, thus providing full-time coverage for the first time.

## 11. Placement Department:

The Placement Department reports that there is still an abundance of job openings for qualified candidates. During the year 1963-64 there have been more than 100 campus interviews. Many of the companies visit the campus each quarter. Many other companies choose to have qualification records sent to them, and they choose candidates to visit their plants at their expense. A few request the graduates to make the trips at their own expense.

The starting salary range during this year was from approximately \$300 to \$542. A comprehensive salary survey was made with the help of Mr. R. W. Hays, and the average starting salary from this survey was \$425. This was done in the spring of 1963 and is based on response from one-third of the graduates.

Companies are recognizing the capabilities of STI graduates more all the time. A national company in Atlanta which employs many Southern Tech graduates has increased the starting salary in two years from \$370 to \$435 because of the performance of the graduates. Another Atlanta company which is interested in STI graduates each quarter now has a minimum starting salary of \$450 a month for selected graduates.

A good class standing opens many doors to graduates; there are companies which specify the "upper half" or the "upper fourth" of the class, but it is also necessary for students to know how to "sell" themselves. Also, there is more and more testing being done, and companies seem to rely more on the results.

This office is still working with the alumni. The monthly newsletter is still sent to paid members of the Alumni Association, and the association now publishes a quarterly publication, Alumni Times, which is sent out through this office. The National Alumni Association has engaged a public relations firm to assist in whatever promotions the association may undertake. The officers seem devoted and anxious to render any help they can to the school.

## 12. Counseling:

W. J. Glenn's title has been changed to counselor instead of counselor-interviewer. In addition to his counseling of students, Mr. Glenn visited counselors in 104 high schools in the north Georgia area. He coordinated the College Day program and participated in a number of College Days and Career Days. He also planned and conducted three Counselors' Seminars sponsored by Southern Tech at Marietta, Cartersville and Dalton.

As director of student aid, Mr. Glenn placed twenty-two students in scholarship or scholarship-loan programs. A total of \$7145.00 was set up for the academic year, and approximately \$5623.00 was allocated for the fall, winter, and spring quarters.

### III. Significant Changes or Improvements in Existing Curricula:

The College Entrance Examination Board's Achievement Tests in English and Intermediate Mathematics were added to the entrance requirements.

The Mathematics Department has established an honors mathematics, Math 110, Integrated Algebra and Trigonometry, for the qualified student, allowing him to obtain credit for both subjects in one quarter. The program will begin in the Fall Quarter, 1964, for students whose Mathematics Achievement Test scores, SAT scores and high school records indicate their ability to do advanced mathematics work.

The name of Building Construction Technology was changed to Architectural Engineering Technology. This department has also added calculus and ultimate load structures to its curriculum.

Electrical Engineering Technology has combined the Power Option with the Electronics Option. A faculty committee on curriculum revision is in the final stage of study for recommendations for extensive revision of the curricula.

The Department has collaborated with the Physics Department to teach two physics courses and two electrical engineering technology courses by closed circuit television.

Air Conditioning Engineering Technology, Gas Engineering Technology, and Mechanical Engineering Technology Departments have added thermodynamics to their curricula.

Textile Engineering Technology has improved laboratory curricula and equipment to increase student participation in laboratory work and to aid students in correlating theory with practical results in the designing of fabrics.

The technical institute evening school has been amalgamated with the day school. This change will bring some difficulties to the evening school on account of lowered fees and loss of adult education, but the quality of instruction should be improved.

### IV. Library:

The library has added 1,347 volumes since July 1, 1963, and now has 5,603 volumes, including 600 volumes in the University of Georgia collection. Five newspapers and 189 other periodicals are received regularly.

A list, arranged according to the Dewey decimal classification, of all books acquired by the library since September, 1963, has been mimeographed and distributed monthly.

A library committee of six faculty members was appointed by the director in September, 1963. The committee has been active in an advisory capacity and in maintaining liaison between the librarian and the faculty.

Although funds have been appropriated for a library building, the visitation team of the Southern Association of Colleges and Secondary Schools strongly recommended that more space be made available now for library use.

#### V. Research:

Research was described under faculty information.

#### VI. Public Services, Publicity, Short Courses, Advisory Services:

During the 1963-64 term Director McClure spoke to the following groups: the Kiwanis Club, Perry, Georgia; the Annual Banquet of the American Cancer Society at Marietta; a Counselors' and Principals' meeting at Chattanooga, Tennessee; the American Society of Industrial Engineers, Asheville, North Carolina; the American Society of Heating and Refrigeration Engineers, Atlanta; the Georgia Engineering Society, Atlanta; the Florida Junior College Facilities Conference; and the Hickory Hills P-TA in Marietta.

Mr. McClure attended seven College Days in Florida and a College Day at East Ridge High School near Chattanooga. In addition to these, he attended a number of Georgia College Days. He attended the Annual Convention of the ASEE at Philadelphia and the mid-year meeting of the Technical Institute Division of the ASEE. He served as chairman of the TIC Committee on Relations with High Schools for 1963-64, secretary of the Technical Institute Division, and chairman of the McGraw Award Committee of the TID.

Mr. McClure has been active in the following capacities: Board of Directors of the YMCA; Chairman of Club Service of the Rotary Club; vice president of the Marietta High P-TA; member of the Education Committee of the Chamber of Commerce; vice chairman of the Commission on Education of the First Methodist Church; member of the Building Committee, Lay Speaker, and teacher of an adult Sunday School class of his church.

In addition to Director McClure, J. J. Defore, J. P. Goodwin, G. M. Lawson, R. L. Myatt, L. H. Taylor, E. R. Stone, David Summers, and W. W. Vaughn attended the 1963 convention of the ASEE at Philadelphia June 17-21. Mr. Lawson and Mr. Taylor were called home on account of emergencies. Mr. McClure and Mr. Defore were panel speakers at group meetings. Mr. Taylor was scheduled to speak, but was unable to remain for the meeting.

Director McClure, T. W. Anderson, John Boshier, J. J. Defore, Richard Denning, J. P. Goodwin, R. W. Hays, C. T. Holladay, Harry Smith, C. R. Orvold, E. R. Stone, Turner Sullivan, and David Summers will represent Southern Tech at the ASEE Convention June 22 through 26 at the University of Maine. Mr. Smith and Mr. Orvold will speak at group meetings of the Technical Institute Division.

Director McClure, L. Y. Bryant, J. J. Defore, C. M. Lambert, and H. L. Lockhart represented Southern Tech at the annual convention of the Georgia Association of Junior Colleges at Abraham Baldwin Junior College, October 22-26, 1963.

Mr. McClure served on the Auditing Committee, and Mr. Defore reported to the Physical Science Section on the television teaching at Southern Tech. At the banquet Coach Lockhart received the President's Trophy, which is awarded to the president or director whose college has shown the best sportsmanship during the year.

Mr. John I. Alford and Mr. R. B. Watkins visited a total of fifteen mills and Mr. Alford visited fifteen high schools in the interest of enrollment. Mr. Alford also made three formal talks.

Registrar L. Y. Bryant attended the annual meeting of the Georgia Association of College Registrars and Admissions Officers February 3 and 4 at the Center for Continuing Education in Athens and the fiftieth annual meeting of the American Association of Registrars and Admissions Officers in Omaha, Nebraska, April 21 through 24. He also attended two conferences of student personnel workers of the University System in Atlanta on February 10 and May 6. As usual, Mr. Bryant represented Southern Tech at numerous College Day and College Night programs throughout the state and one or two in neighboring states.

Dean G. L. Carroll was again listed in Who's Who in American Education. In addition to his other duties, he edited and published the new monthly faculty news bulletin, the STI Intercom, and again served as chairman of the catalog publication committee. He is chairman of the Statutes Committee, chairman of a committee to prepare an orientation program for new faculty members, and chairman of the Speakers Bureau. As in the past, he represented Southern Tech at several College Nights and aided the director in preparation of the annual report.

David Summers is a member of the Board of Electrical Examiners for the city of Marietta.

Dean G. L. Crawford's efforts as chairman of the committee to prepare for the ECPD Accreditation Inspection were rewarded when ten Southern Tech Curricula were reaccredited in October, 1963.

J. J. Defore served as secretary of the ASEE/TIC Committee on Relations with High Schools and was a member of the ECPD Region IV Subcommittee on Evaluation of Engineering Technology Curricula. He is a member of the Southeastern Section of the American Physical Society, the American Association for the Advancement of Science, and the American Association of Physics Teachers. Mr. Defore spoke to the Acworth Optimist Club about Southern Tech on October 24. On August 2, 1963, in his capacity as national secretary of the Tau Alpha Pi Honor Society, he installed a chapter at Capital Radio Engineering Institute in Washington, D. C.

C. R. Freeman conducted a shop experience course for a placement counselor training program for counselors of the blind.

W. J. Glenn served as Co-chairman of the Red Cross Bloodmobile Committee for Southern Tech. He was a member of the Advisory Board of the Cobb County Family

Service Society; served as second vice president of the Marietta Lions Club, and served the First Methodist Church of Marietta as Sunday School Teacher, member of the Official Board, and member of the chancel choir. Mr. Glenn attended the Fourteenth Annual Conference of the Georgia Association of School Counselors at Jekyll Island on November, 1963, and the Annual Meeting of the Georgia Association of College Registrars and Admissions Officers at the University of Georgia Center for Continuing Education in Athens, February 3 and 4. Mr. Glenn made several formal talks, including two on "The Characteristics of a Good Citizen," which he presented at Sprayberry High and Marietta High in November, 1963.

J. P. Goodwin has represented Southern Tech at a number of College Days and Career Days. He also coordinated the campus-wide inventory and developed and directed the special school for employees of the Southern Railway Company.

R. W. Hays is again listed in Who's Who in American Education. He is also listed in Who's Who in the South and Southwest and in the recently published Dictionary of International Biography. He continued to serve as coordinator of technical-institute courses for the Engineering Evening School and as publicity director. His report on publicity follows: "Publicity: In past years the college sent out about forty press releases annually, but through June 1, 1964 the college had sent out fifty-four releases this year. Press releases regularly went to about forty news media, concentrated in the Atlanta area. A recently adopted letterhead for press releases should increase use of press releases. Besides press releases the college presented eight television programs on "House Detective." The cooperation of the following was vital in this effort: W. W. Vaughn, C. R. Orvold, L. H. Taylor, J. I. Alford, C. T. Holladay, W. S. Newman, R. C. Carter. Southern Tech presented Miss STI on radio once. Also, the STI exhibit was shown for a week at G.E.X. The department has aided in preparing these types of handout material: a co-op brochure; an air conditioning brochure; and material for the counselors' seminars. Mr. Hays also prepared an article about the 1963 salary survey for a forthcoming issue of the Journal of Engineering Education. Difficulties: The publicity effort is handicapped because Southern Tech has no "natural news" (football teams, atomic reactors, computer center, etc.). A second difficulty is the lack of fast photographic service. The publicity effort thus far has included almost no photographs."

William Hurst and David Summers attended a summer institute for Civil Defense in August, 1963, at the Civil Defense Training Center in Kellogg, Michigan. Mr. Hurst served as a consultant with the Highway Department on a wet asphalt friction problem. As a result of this research, Melvin Sorrelle constructed a machine for measurements pertaining to the problem.

Clark Lambert was elected vice president of the Alumnus Delta Chapter of Kappa Phi Kappa Teachers Fraternity. He is also vice president of his International Lions Club.

Coach Harry Lockhart received the WSB 750 Award in November for his outstanding work as coach at Southern Tech. In addition to his coaching duties, he has represented Southern Tech at a number of College Day programs.

Dean C. V. Maddox attended a Civilian Orientation Cruise at the Naval Air Training Command in Pensacola, Florida, February 4, 5, and 6. Dean Maddox represented the school at several College Day programs and served as an officer of the Boosters Club.

C. M. Mobley served as consulting chemist to a flavor manufacturing industry in the Atlanta area.

R. L. Myatt attended the annual convention of the American Concrete Institute in Houston, Texas, March 3 through 6. Mr. Myatt is STI Membership chairman for the ASEE.

C. R. Orvold and J. J. Defore were members of the ECFD inspection team at Erie County Technical Institute, Buffalo, New York, April 26, 27, and 28. Mr. Orvold spoke at the Marietta High Career Day, February 6, on the duties of an architect.

Mrs. Julia Parker attended the annual convention of the Special Libraries Association at St. Louis June 7 through 11.

Rolf Roley wrote two articles for the Georgia Highway Engineer, one in November, 1963, and another in February, 1964. Mr. Roley has been retained by the city of Marietta to draw up a City Safety and Engineering Code and was selected to be Co-chairman of the Cobb County Disaster Committee of American Red Cross.

W. C. Royer is Chairman of the Board, Cobb County Unit, of the American Cancer Society, and is a member of the Steering Committee of the Marietta Men's Garden Club. He helped to organize the Boosters Club and served as vice president and is now a member of the Board of Directors of the Club.

Harry V. Smith spoke to the Atlanta Area Math Teachers and showed the film strip "Engineering Technology" at a meeting at Emory University on the evening of January 23. Mr. Smith was chairman of the Southern Tech Self-Study Steering Committee, which was composed of Mr. Smith, J. J. Defore, R. W. Hays, John Keown, Leonard Taylor, and W. W. Vaughn.

Ernest R. Stone aided in the programming and operation of the television courses in General Science 100 and Modern Physics 134. During the summer he will be an engineering sales consultant for the Hooker Reid Company.

The Southern Association inspection team composed of Chairman Harold Manor, president of Palm Beach Junior College, Lake Worth, Florida; E. A. Kovner, director of the Old Dominion Technical College, Norfolk, Virginia; and Albert V. Payne, president, Mohawk Valley Community College, Utica, New York, inspected Southern Tech April 12-15. The decision as to accreditation by the Southern Association will not be known until December.

### VIII. Gifts:

Robert K. Throver for Building Construction Department	\$250.00
Ancient Gassers for Gas Engineering Technology Department	500.00
Contributions to the Dean C. V. Maddox Scholarship Fund	
Lawrence L. Parlett	180.00
Eugene Powell	10.00
STI Boosters' Club	350.00

The following organizations contributed scholarship money during the 1963-1964 term: the State Board of Regents, the Marietta Lions Club, the Marietta Kiwanis Club, the Marietta Rotary Club, the Marietta Optimist Club, the Marietta Masonic Temple, the Smyrna Lions Club, and the Atlanta Chapter of the American Society of Tool and Manufacturing Engineers.

### IX. Appraisal of Progress:

During the past year we have spent approximately \$29,000 of surplus funds in addition to our normal capital outlay purchases on laboratory equipment. While this expenditure has been helpful, we are not yet adequately equipped in our laboratories.

The construction of our first dormitory is well under way and on a schedule that should complete it around the first of 1965. This dormitory will house 186 men, has dining facilities for from four to six hundred men, has a small clinic, and will be completely air conditioned.

The detailed plans and specifications for our second dormitory unit have been completed and have been submitted to bidders. This unit, costing over a million dollars, will house 300 students and is air conditioned also. Timing is critical on this unit, for we must have it by September of 1965.

Our multi-purpose building and our library are both in the initial planning stages at this time. In both cases the architects have been selected, and we are engaged in locating the sites for these buildings. The total cost of these four buildings will be approximately 2.6 million dollars, which represents a first cost that is greater than that of the entire existing campus at this time.

All of the existing curricula that were submitted to the Engineers' Council for Professional Development for inspection last May, were accredited in November. One of the curricula which was given conditional accreditation has since been discontinued because of the low enrollment and the high cost of providing adequate laboratory equipment.

For the past year, practically the entire faculty has been involved in a self-study, which is preparatory to applying for Southern Association accreditation. Our visitation by a Southern Association team occurred in April, 1964. Although the preliminary report of this accreditation team indicated a number of shortcomings, we are correcting these and are hopeful that we will receive favorable action at the Southern Association meeting in November of this year.



X. Difficulties and Problems:

The two dormitories that we have either under construction or close to construction at this time were clearly our most critical need; however, the problem of timing is still a critical one for us. The sub-standard housing that we are now using for resident students is due to be razed beginning June 1, 1965. Therefore, if the second dormitory unit is not ready by September of that year, we will have from 250 to 300 students with no place to stay. Because the housing shortage in the Marietta area is rather acute at this time, the possibility of this number of students being absorbed in the community is virtually nil.

We believe that the Area Vocational-Technical Schools are beginning to affect our enrollment as we had predicted. Although our new student registration for the fall quarter of 1964 is running about ten per cent ahead of last year, this is much less than the increase being recorded throughout the remainder of the University System. Because less than half the planned Area Vocational-Technical Schools are now in operation, it is believed further that the impact may increase as time goes on. To combat this effect, we have instituted a program of Counselor Seminars in which we are attempting to meet with high-school counselors in various localities to explain our relationship with the Area Vocational-Technical Schools. This latter program is expensive, however, and can be carried on only on a modest scale.

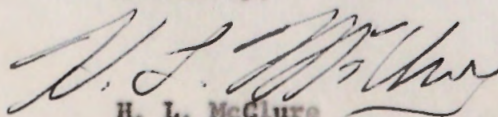
The inspection teams of both the ECPD and the Southern Association were critical of our shortage of laboratory equipment. We estimate that several hundred thousand dollars would be necessary to replace obsolete equipment and to bring our total equipment level up to the point where it should be.

Conclusions:

We have made giant strides in solving many of our problems this past year. However, as problems are solved, others appear and some, of course, still remain unsolved. We are quite happy that the four buildings we needed most urgently are now approved and are either in the planning or construction stage. To this end we are very grateful to the officials of Georgia Tech and of the Board of Regents for their sympathetic understanding of these needs and the fine efforts that they have extended in helping us.

The necessary modification and revision of individual subjects in each course in order to maintain our relatively high position nationally among technical institutes continues to be a problem. It is a problem, however, with which we are completely familiar and which we know how to solve. The problems which we have remaining at the end of this year are vexing and sometimes frustrating; however, they are ones that we are confident that we can handle.

Sincerely,



H. L. McClure  
Director

June 30, 1965

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Eighteenth Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1964-1965.

I. Faculty:

1. Additions, Replacements, and Resignations in Faculty and Staff:

Additions:

Armstrong, Lee H.	Instructor, Mathematics Department
Bruce, George W.	Instructor, Electrical Department
Bush, Stephen G.	Instructor, Chemistry and Physics Department
Carmichael, Thomas H.	Instructor, Industrial Department
Cowan, Clifford W.	Assistant, Electrical Department
Dunlap, Donald S.	Instructor, Mathematics Department
Ellington, Jesse W.	Assistant and Department Head, Textile Department
Heard, B. Frank	Instructor, Industrial Department
Schenk, Harry M.	Assistant, Chemistry and Physics Department
Smith, Paul V.	Placement Director
Williams, Yardy T.	Assistant and Department Head Electrical Department

Retirement:

Alford, John I.	Associate and Department Head, Textile Department
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(Mr. Alford will continue to work at Georgia Tech for another year.)

Resignations:

Bush, Stephen G.

Instructor, Chemistry and Physics  
Department

Spaeth, W. O.

Special Lecturer, Electrical  
Department

Watkins, Robert B.

Instructor, Textile Department

Raise in Rank of Faculty Members:

Williams, Yardy T.

Appointed Head of Electrical  
Department

Myatt, Robert L., Jr.

Associate to Professor, Civil  
Department

Blair, Mariou E.

Assistant to Associate, English  
Department

Denning, Richard G.

Assistant to Associate, Mathematics  
Department

Lawson, George M.

Assistant to Associate, Industrial  
Department

Anderson, Theodore W.

Instructor to Assistant, Industrial  
Department

Day, Parker S.

Instructor to Assistant, Drawing  
Department

Keen, James L., III

Instructor to Assistant, Industrial  
Department

Parlett, Lawrence L.

Instructor to Assistant, Industrial  
Department

Summers, David E.

Instructor to Assistant, Electrical  
Department

Staff Members:

Additions:

Morgan, Myra C.

Clerk, Registrar's Office

Harman, Norma Jean

Clerk, Registrar's Office

Richardson, Darlene

Secretary, English Department

Meadows, Doris

Secretary, Electrical Department

French, Glenda

Typist, Registrar's Office

Resignations:

Bowen, Margaret

Clerk, Registrar's Office

Adams, Patsy

Clerk, Registrar's Office

Harman, Norma Jean

Clerk, Registrar's Office

Dobbs, Amanda

Secretary, English Department

Richardson, Darlene

Secretary, English Department

Cash, Adele

Secretary, Electrical Department

2. On Leave:

Defore, Jesse J.	Graduate Work, Florida State University (1965-1966)
Mobley, Cleon M.	Graduate Work, University of Missouri (1965-1966)
Parlett, Lawrence L.	Graduate Work, University of the Seven Seas (1965-1966)
Taylor, L. H.	Teaching in Pakistan (1965-1966)

3. Doing Graduate Work While in Service:

Bosher, John L.  
Dush, Stephen  
Carmichael, T. H.  
Cowan, C. W.  
Denning, Richard G.  
Mobley, C. M.  
Stone, Ernest R.

Doing Work Toward Bachelor's Degrees:

Burton, W. E., Jr.  
Goodwin, J. P.  
Thomas, Weldon L.

Degrees Received During the Year:

Bosher, John L.	M.B.A., Georgia State
Carmichael, T. H.	M.S.I.E., Georgia Tech
Denning, Richard G.	M.S.M.E., Georgia Tech
Goodwin, J. P.	A.S., Pacific International University
Thomas, Weldon L.	B.S.M.E., Georgia Tech

Richard Denning has been selected by the ASEE and the English Speaking Union to visit technical colleges in England during the fall of 1965.

Herbert Eller, Edger Fowler, J. L. Keen, and Ralph Youngblood have been selected to participate in the summer Polytechnic Institute program in India during the summer of 1965. Three of our faculty, Mr. Eller, Mr. Youngblood, and Mr. R. L. Myatt, participated in this program last year.

W. O. Spaeth attended a one-week telephone transmission school given by the Standard Telephone Company in Blairsville, Georgia.

4. Research, Creative Work, Publications:

M. E. Blair, in his study of teaching paragraph development, has done some difficult research which may not pay off noticeably for several years. He hopes, however, to discover a much more effective method of teaching the subject than those now being used.

Stephen Bush did solid-state research in the field of electron paramagnetic resonance and color centers. His thesis on the subject is entitled "The Change of the Mean Magnetic Relaxation Time of F-Centers Due to Optical Bleaching in KCl."

R. W. Hays developed two complete sets of negative slide films for use in teaching public speaking and report writing. They were prepared for the Open House program but have proved useful in the actual teaching program.

During the fiscal year Mr. Hays published eight articles in periodicals and wrote a textbook entitled Principles of Technical Writing, which will be published by the Addison-Wesley Publishing Company. A list of the articles follows:

"Training Building-Construction Technicians at Southern Technical Institute." Technician Education Yearbook. Ann Arbor, Michigan: Praxen Publications, Inc., 1964.

"They Install Electric Air Conditioning," Butane-Propane News. June 1964. Vol. 26, No. 6. pp. 54-56. (Written under pseudonym of "Conrad Copeland")

"In Carburetion, You Win or Lose on Mechanical Ability," Butane-Propane News. Vol. 26, No. 6. pp. 83-86.

"Small Staff--No Frills," Southern Engineering. June 1964. Vol. I, No. 10. pp. 26-28.

"How Much Does the Graduate Engineering Technician Make?" Journal of Engineering Education. July-August 1964. Vol. 54, No. 11. pp. 391-392.

"Almost Total-Energy Package Used in Atlanta Apartment." Gas. August 1964. Vol 40, No. 8. pp. 107-109.

"Medium-Sized Independent Puts on His Own Professional Service School," Butane-Propane News. September 1964. Vol. 26, No. 9. pp. 50-52.

"Fire Official Gets Training in LP-Gas--Fast," Butane-Propane News. April 1965. Vol. 27, No. 4. pp.58-59.

T. R. McClure is doing a pilot study of programmed learning for the English Department and has used a programmed text in Remedial English this term.

C. M. Mobley performed research at the Experiment Station at Georgia Tech while serving as a consultant on special instrumentation problems. He collaborated in publishing the following technical report:

Mobley, C. M., L. W. Elston, and W. H. Burrows, "Exhaust Gases from Engines Having Special Controls," Final Report, Research Grant No. AP-00225, U.S. Public Health Service, Georgia Institute of Technology, September 1964.

Mrs. Julia Parker wrote the first handbook for the Southern Tech Library during the summer of 1964. She also compiled a staff manual for student assistants and wrote a job description for the librarian.

E. J. Muller is well under way with a book on architectural drawing to be published by Prentice-Hall in 1966.

Melvia Sorrells, in cooperation with the State Highway Department, designed and built a machine to measure the coefficient of friction of asphalt road surfacing. This machine has been accepted for the final test of the asphalt for the State Highway Experimental Laboratory.

W. L. Thomas built a network gas distribution system simulator for his department. Mr. Thomas also published a magazine article, as follows:

Thomas, W. L., and Dr. E. B. Schultz, "Cell Age is Coming," Butane-Propane News, Vol. 26, No. 5.

5. Average Number of Equivalent Full-Time Teachers:

Regular Sessions	62.5
Summer Session	35.2

6. Faculty Salaries and Distribution By Rank:

	<u>No.</u>	<u>Average 9 Months Salary</u>
Professor	7	\$ 9,341
Associate Professor	17	8,032
Assistant Professor	16	6,772
Instructor & Special Lecturer	19	6,289
All Ranks	59	7,284

7. Average number of students per instructor 17.5  
 Average instructor teaching hours/week 17.7  
 Average number of student credit hours/instructor 273.4  
 Average class size (Labs not included) 22.5
8. The academic credentials and the quality of teaching are continuing to improve. Of the seven faculty members hired on a permanent basis this year, five had their master's degrees, one has completed his advanced degree this year, and the remaining man is working on his graduate program now. Three of our faculty received their master's degrees this past year, three will be on leave for graduate work next year, and at least six others have embarked on advanced study on a part-time basis.

## II. Students and Enrollment

1. Average enrollment for regular session 1091  
 Cumulative enrollment for regular session 1397  
 Average and cumulative enrollment for summer quarter 1964 574  
 Average enrollment for entire year 962  
 Total cumulative enrollment 1639

2. Number of Student Credit Hours Per Quarter:

Summer, 1964	8,045
Fall, 1964	16,883
Winter, 1965	17,159
Spring, 1965	15,287
<b>Total</b>	<b>59,274</b>

3. <u>Quarter</u>	<u>Veterans</u>		<u>Non-Veterans</u>		<u>Total</u>		<u>Sum Total</u>
	M	W	M	W	M	W	
Summer, 1964	12	0	561	1	573	1	574
Fall, 1964	18	0	1156	6	1174	6	1180
Winter, 1965	16	0	1081	5	1097	5	1102
Spring, 1965	16	0	969	6	935	6	991

Nine of the 1639 students on the 1964-65 cumulative roll were women. One hundred and seventy-three (9.47%) of the 1639 were non-residents of Georgia. Twenty-two of the 1639 were veterans or sons of deceased or disabled veterans.

Breakdown of Student Enrollment by Classes, 1964-65:

Summer Quarter, 1964

<u>Freshmen</u>	<u>Seniors</u>	<u>Total</u>
279	295	574

Academic Year, 1964-65

Fall	795	385	1180
Winter	739	363	1102
Spring	665	326	991

4. Breakdown of Cumulative Roll by Degree-Granting Departments:

Air Conditioning Engineering Technology	96
Architectural Engineering Technology	254
Civil Engineering Technology	248
Electrical Engineering Technology (Electronics Option)	341
Electrical Engineering Technology (Power Option)	26
Electrical Engineering Technology (Telephone Option)	37
Gas Engineering Technology	36
Industrial Engineering Technology	140
Industrial Engineering Technology (Management Option)	164
Mechanical Engineering Technology	240
Textile Engineering Technology	41
Special Students	<u>16</u>
<b>Total</b>	<b>1639</b>

5. Classes at Undergraduate Level:

<u>Class Size</u>	<u>5-9</u>	<u>10-19</u>	<u>20-29</u>	<u>30-40</u>	<u>Over 40</u>
Summer Quarter	0	98	50	8	0
Regular Quarters	<u>47</u>	<u>413</u>	<u>308</u>	<u>121</u>	<u>22</u>
<b>Total</b>	<b>47</b>	<b>511</b>	<b>358</b>	<b>129</b>	<b>22</b>

The large number of classes in the 10-19 size is caused by the large number of laboratories whose optimum class size falls into this category.

The number of classes with fewer than 10 students amounted to 4.4% of the total number of classes. The small classes were largely in two departmental options of small enrollment. Both of these options have been discontinued, and the number of very small classes should decline accordingly.



6. Graduates and Degrees Awarded in 1964-65:

	<u>Graduates</u>	<u>Degrees</u>
Summer, 1964	76	81
Fall, 1964	58	59
Winter, 1965	49	57
Spring, 1965	<u>101*</u>	<u>107*</u>
	76 + 208	81 + 233
 Sum Totals	 284	 314

\*Correctness of these totals is contingent upon the graduation of all candidates enrolled in the Spring Quarter of 1965.

7. Number of Students in Extension Classes and Special Courses:

Contract Training: Training schools conducted for industry on the Southern Tech campus.

<u>Company</u>	<u>Type of School</u>	<u>Number of Schools</u>	<u>Students</u>
Southern Railway Company	Diesel electric maintenance	1 (two quarters) Summer & fall 1964	12
Southern Railway Company	Diesel mechanics	1 (16 weeks) Summer & fall 1964	12
Southern Railway Company	Diesel electric maintenance	1 (two quarters) Spring & summer 1965	8
Southern Railway Company	Diesel mechanics	1 (16 weeks) Summer 1965	16

8. Quality of Scholastic Work:

Though there is not much evidence to indicate improvement, the quality of scholastic work at Southern Tech throughout 1964-65 is very difficult to assess because of inconsistencies among the criteria. The following data pertinent to scholarship in 1964-65 might help to explain the foregoing statement.

Dropped and Probationary Students  
(Summer and Fall, 1964, Winter, 1965)

	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>
Dropped	98	112	118
Probationary	170	157	182

<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>
<b>Graduation Point Averages</b>		
2.46	2.44	2.40
<b>Number of Graduates on Dean's List</b>		
23	25	31
<b>Winners of Honors (Graduates)</b>		
11.1%	4.2%	6.6%
<b>Percent of Those on Cumulative Roll Who Graduated</b>		
20.3%	20.6%	17.3%

As will be seen, no trend toward scholastic improvement is evident. One encouraging fact is not shown: that the graduates of the Spring 1965 Quarter are perhaps the best scholastically that Southern Tech has prepared. The average of the point averages of this class (final quarter not counted) is 2.59. However, two of the classes (Summer, 1964, and Fall, 1964) detracted from the 2.59 by achieving only a 2.33 and a 2.35 respectively. Southern Tech still does not attract enough students of good scholastic ability.

#### 9. Extracurricular Student Activities and Student Conduct:

The departmental clubs have had an average of one social function per quarter. Most clubs had outside speakers for at least one meeting per quarter, and some of them also showed educational films and slides.

The most active of the campus-wide clubs were Circle K, IERE, BSU, and Tau Alpha Pi (Honor Society). The Circle K Club was put on the Honor Roll of Clubs announced by the Georgia District Bulletin for outstanding performance in campus activities; and as one of the student chapters of Circle K International, it shared in the George Washington Honor Medal for college campus citizenship and service in 1964. One of the activities for which the club and Adviser W. S. Newman received special recognition was the sponsorship of Engineering Technician's Day.

Two campus-wide socials were held: the Christmas Dance and the Valentine Day Dance.

At the beginning of spring quarter the new dormitory was opened for students living on campus. It is hoped that this will improve morale and make it easier for students to participate in extracurricular activities.

The student newspaper, the Engineering Technician, under the direction of Adviser T. R. McClure, won First Class Honor Rating in a judging held by the Associated Collegiate Press. The Technician's Log was again produced under the direction of Adviser M. E. Blair, who considers this yearbook to be one of the best.

Coach Harry S. Lockhart was again assisted by G. M. Lawson (Golf) and Harry V. Smith (Tennis).

The varsity basketball team won eleven games and lost fifteen and made a good showing in the tournament. Dick Waters was the leading scorer in the state, and Robert Jordan made the All-State, All-Tournament, and All-Region first teams.

The varsity baseball team won fifteen games and lost seven and tied for first place in the conference. Robert Jordan, Tim Matthews, and Don Morris were selected for the All-State Baseball Team.

Fey Lau, a foreign student from Hong Kong, was runner-up in the No. 1 singles in the State Tennis Tournament.

The golf team played several matches but could not attend the State Tournament because some of the players could not miss classes.

Since the Larry Bell Gymnasium burned during the intramural basketball season, softball was put in for the spring quarter, with eight teams participating. Softball will be continued during the summer quarter as usual.

When the new gymnasium is completed, Coach Lockhart plans to expand the intramural program considerably.

Dean of Students C. V. Maddox did an outstanding job of supervising student activities and student conduct. He reports that student conduct was generally good. However, there were cases of misconduct serious enough to warrant suspension of four students.

#### 10. Students Leaving for Financial Reasons; Demand for Scholarships and Jobs:

As usual, it is impossible to estimate the number of students leaving for financial reasons, since most of them merely withdraw between quarters without reporting their reasons.

Thirty-two students were given scholarships and loans and a few held campus jobs. Most working students, however, have jobs off the campus.

#### 11. Placement Department:

Placement Director Paul V. Smith assumed his duties in July, 1964. He reports that he found an excellent system under the direction of Mrs. Armenta V. Simmons, who now serves as Assistant to the Placement Director.

Beginning with the fall of 1964 several services were combined into the Placement Office. The main addition was the co-op program, which was added to Placement in an attempt to increase participation of both companies and students by providing a "one-stop" service.

Mr. Smith reports that the number of new industries employing graduates continues to grow, and he has been amazed at the number of opportunities afforded the graduates during this academic year. There have been many more jobs than there have been graduates to fill them, because industry has found the graduates to be of a high quality and capable of assuming responsible duties.

There have been approximately forty campus interviews a quarter and at least a hundred other opportunities through sending resumes, making plant visits, etc. Increased interest on the part of industry undoubtedly was partially due to a letter sent out to those Georgia manufacturers who could use engineering technicians but were not on the Placement Department's mailing list. Also the Department sends a breakdown of graduates each quarter to the American Apparel Manufacturers Association, and the Association advertises the graduates in its national newsletter. All alumni have been informed of the Placement Department service, and a new system has been initiated for alumni to submit resumes for Department use. The Alumni Newsletter has been continued and has provided employment opportunities for all paid members of the Alumni Association.

Another Salary Survey is being compiled, the first since 1963. If there is a good response, the report should be helpful to the Placement office in its efforts to show industry the progress of the STI graduate.

The average starting salary of graduates has steadily increased to approximately \$460.00 per month, with a range of \$400.00 to \$600.00. More students are being offered salaries of \$475.00 to \$550.00 than in previous years, with very few being offered salaries lower than \$450.00.

## 12. Counseling:

Counselor W. J. Glenn offered four types of counseling services during the 1964-65 fiscal year: counseling on personal-academic problems for 227 students; financial counseling for 105 students; personal interviewing of 618 applicants and prospective students; and testing for thirty-three individuals who requested the Otis Mental Ability Test - Gamma, the Joe Moore Business and Industrial Classification Form, the Bennett Mechanical Aptitude Test, the California Personality Test, and the Kuder Vocational Preference Test. In addition, he administered the CEEB's SAT to 83, the CEEB's Achievement Tests in English Composition and Math (Level I) to 208, and the SCAT to five for the Southern Bell Telephone Company.

During the fiscal year Mr. Glenn visited 94 different high schools in the state to contact counselors and interested students at times other than College Days and Nights. He also arranged and moderated the five Counselors' Dinners held by Southern Tech at Carrollton, Griffin, Gainesville, Tifton, and Athens. A total of 72 superintendents, principals, guidance directors, and counselors attended the dinners.

Mr. Glenn coordinated the 52 College Day and College Night programs in which Southern Tech participated. Mr. Glenn represented Southern Tech at 21 of the programs and called on Coach Harry Lockhart, Dean G. L. Carroll, Dean C. V. Maddox, Registrar L. Y. Bryant, Placement Director Paul Smith, Assistant Head of the Electrical Department J. P. Goodwin, Director H. L. McClure, and Director of the Engineering Extension Division L. V. Johnson to handle the others.

Scholarship and Scholarship-Loans amounting to \$7,617.00 were administered through the counselor's office. The State Regents' Scholarship fund furnished \$4,917.00 for fourteen students, and civic clubs of the Marietta Area provided \$2,700.00 for fifteen students. The Marietta Masonic Temple has established a \$100.00 "emergency fund" for students who need small amounts for short periods of time.

### III. Significant Changes or Improvements in Existing Curricula:

The Civil Engineering Technology Department taught six new subjects for the first time: Programming using ALGOL; Soils Mechanics and laboratory; Indeterminate Structures; Advanced Surveying; Estimating; and Geology.

The Electrical Engineering Technology Department has eliminated options, and students are now permitted to elect twelve quarter hours of the 114 hours required for graduation. The electrical laboratories have been significantly improved by the acquisition of modern oscilloscopes, transistor power supplies, coaxial devices, and semiconductor components. Material has been purchased to remodel the furniture in three electronics laboratories. A complete telephone laboratory was equipped by the Western Electric Company.

The Physics Department is testing on a uniform departmental basis in subjects taught by more than one instructor, so that grades issued by different instructors of the same subject will be as consistent as possible. Physical Science 100 is currently being taught primarily as a preparatory subject for the Southern Tech physics sequence, rather than as a course in general science. There has been a textbook change to an introductory physics text. There has been considerable concern over the objectives and level of the subject matter for the department. The present Physics 131, 132, 133, and 134 use the same text as Physics 211, 212, and 213 at Georgia Tech.

Upon the request of the Electrical Engineering Technology Department, the English Department has added an elective in logic and an elective in literature, which may also be used by students of other departments.

The Gas Engineering Technology Department acquired an engine dynamometer and some leak detection equipment through a \$500.00 gift from Ancient Gassers.

The Mathematics Department has added an introduction to computer programming.

The Mechanical Engineering Technology Department has changed MET 121, 122, 123, and 124 from 0-6-2 to 1-3-2 so as to give an hour of lecture and a three-hour lab period per week for each subject. The department has purchased, installed, and put into use three new lathes for the General Metal Laboratory.

The Textile Engineering Technology Department secured and has used hand looms to make a better presentation in teaching the fabric-design course.

#### IV. Library

Within the last year the library provided students of Southern Tech with a continuing improvement in services and facilities. The librarian has provided reference service to students and faculty members of Southern Tech and to students and faculty of the Marietta Center of the University of Georgia. She has also maintained a separate card catalogue for the University of Georgia books housed in the Southern Tech library. The library now has a Xerox 914 duplicator and provides two typewriters for student use. The librarian has distributed a monthly acquisition list to all faculty members.

1. Number of volumes added during year	833
Total holdings of Southern Tech volumes	5,402
University of Georgia volumes added	150
Total holdings of University of Georgia	600

2. Although the librarian has made much progress in developing the library, the present facilities and personnel do not meet Southern Association standards. Upon the completion of the new library building, the standards can be met if a considerable sum of money can be provided for books. At least \$100,000.00 will be needed initially to bring our holdings up to standard. In the meantime every effort will be made to improve the library, in spite of the limitations caused by lack of facilities and of trained personnel.

3. Expenditures for books and other materials \$8,700.00

4. Expenditures for personal services \$10,800.00

#### V. Research:

Research was described under Faculty Information.

## VI. Public Services, Publicity, Short Courses, Advisory Services:

As usual faculty and administration have performed public services, given advisory services, and participated in civic and professional organizations in such a way as to reflect credit upon the institution and to provide such favorable publicity.

As mentioned in Section II of the report, much publicity for Southern Tech was accomplished through the College Days and Nights; the Counselors' Dinners; and the visits to counselors and principals of high schools by Counselor Glenn, Director McClure, Registrar Bryant, and Director of the Engineering Extension L. V. Johnson.

Under the sponsorship of the Circle K Club and Adviser W. S. Newman, Southern Tech held its first Open House-Engineering Technology Day on Sunday, April 25, 1965. A large number of parents, alumni, and other visitors inspected the campus and enjoyed the many interesting exhibits prepared by the departments for the occasion. Governor Sanders, Cobb County Commission Chairman Ernest Barrett, and Marietta Mayor Howard Atherton issued proclamations designating April 25 as Engineering Technology Day.

Director McClure, T. W. Anderson, J. L. Boshier, J. J. Defore, J. P. Goodwin, C. T. Holladay, C. R. Orvold, H. V. Smith, E. R. Stone, T. M. Sullivan, and D. E. Summers represented Southern Tech at the ASEE Convention at the University of Maine June 22-26, 1964. Mr. Smith spoke at the TID meeting June 23 on "What Kind of Mathematics in Engineering Technology." Mr. Orvold presided at the Construction Engineering Technology meeting on June 24 and also discussed curriculum improvement for construction engineering technology.

Director McClure attended the mid-year meeting of the Technical Institute Council of the Technical Institute Division of ASEE October 7 and 8, 1964, in New York.

Director McClure, J. L. Boshier, C. W. Cowan, J. J. Defore, R. G. Denning, Frank Heard, C. M. Lambert, G. M. Lawson, C. M. Mobley, R. L. Myatt, C. R. Orvold, H. V. Smith, T. M. Sullivan and possibly W. S. Newman, E. R. Stone, and W. W. Vaughn were scheduled to attend the 1965 ASEE Convention at Chicago June 21-25. Mr. McClure was to preside on Wednesday, June 23, at the TID-TIC meeting on Government Participation in Technical Institute Education. He is also secretary of the Technical Institute Division.

Director McClure served as president of the Marietta-Cobb County YMCA and president of the Marietta High P-TA. He was also Chairman of the Scrapbook Committee of the Marietta Rotary Club. The scrapbook was judged best in the state.

L. G. Cuba is chairman of the Education Committee of the American Society of Tool and Manufacturing Engineers and is a member of the Board of Directors of the East Marietta Lions Club.

J. I. Alford called on fourteen high schools and ten textile plants during the fiscal year. He consulted with one garment plant on the problem of formaldehyde in the air when the plant is air conditioned. He is working with the American Garment Manufacturers Association and the Tufted Textile Manufacturers Association to determine whether the time is ripe to put in special courses to serve the needs of these industries.

Registrar L. Y. Bryant's activities were restricted by such additional work as a result of increased enrollment, taking over records of technical institute students from the former Engineering Evening School, and personnel turn-over in his office. However, he represented Southern Tech at numerous College Day and College Night programs, attended several meetings set up by the Department of Guidance and Testing of the Chancellor's office, attended the meeting of the Georgia Association of Collegiate Registrars and Admissions Officers, and participated in activities of several professional organizations.

T. W. Anderson was assigned to the Committee on Research and Special Studies of the American Society of Training and Development.

G. L. Carroll represented Southern Tech at several College Nights, planned and directed the visits of a number of groups and individuals who were interested in the curricula, buildings, and equipment at this institution, including two English visitors on the ASEE-English-Speaking Union Tour and two visitors from the Ministry of Education of India. On June 3 he represented the school at the dedication of the Roberts Memorial Library at Middle Georgia College.

J. J. Defore, as executive secretary of Tau Alpha Pi, assisted in chartering ceremonies for Theta Pi Chapter at Old Dominion College in Norfolk.

Clark Lambert, Richard Denning, Coach Harry Lockhart, and C. M. Mobley represented Southern Tech at the annual meeting of the Georgia Association of Junior Colleges at Augusta College October 23-24, 1964.

W. J. Glenn spoke to the Marietta Optimist Club and showed the filmstrip "Engineering Technology" on August 3, 1964.

J. P. Goodwin participated in the administration of the two diesel electricians' programs conducted for Southern Railway System, represented Southern Tech at several College Day and Career Day programs, and served on several ECPD inspection teams.

W. M. Gordon attended a Water Resources Engineering Conference in Mobile, Alabama, March 8-12, 1965.

C. M. Mobley served as a consultant concerning problems of testing and developing patented devices used in the prevention of air pollution.



R. W. Hays addressed the student body of Young Harris College at a convocation on October 8. Mr. Hays was on the faculty of the Radiologic Technologist Student Seminar sponsored by the Atlanta Society of X-Ray Technicians at the Academy of Medicine February 7, 8, and 9, 1965. He made two lectures on "Scientific, Technical Writing."

Mr. Hays was selected for membership in the International Platform Association, which includes such notables as Edgar Bergen, Drew Pearson, and Hal Holbrook. He brought favorable attention to the school through teaching almost the entire top management of Southern Airways courses in Public Speaking and Efficient Reading and in addition he spoke at the graduation banquet which concluded the courses.

Mr. Hays again handled the publicity for the school. He sent out frequent press releases to 43 news outlets, presented one television program and four radio programs, and arranged six special radio announcements. His publicity activity also included planning and carrying out the Open House program and the Miss Southern Tech contest. In addition he has answered a large number of inquiries, partly by telephone, partly written. His principal difficulty was lack of natural news. Many events which were publicized were unfortunately of minor importance.

Mr. Hays is listed in Who's Who in American Education, Who's Who in the South and Southwest, The Dictionary of International Biography, and the International Platform Association.

C. T. Holladay served on the Civil Technology Advisory Board of the U. S. Office of Education; was a member of an ECPD Accreditation Team, State University, Agricultural and Technical Institute, Alfred, New York; and was moderator at one session of a Short Course on Surveying at Georgia Tech in January, 1965.

Clark M. Lambert served as vice president of the Alumnus Delta Chapter of the Kappa Phi Kappa Professional Education Fraternity and was elected president for 1965-1966. He is on the Board of Directors of the Dunwoody Lions Club.

William S. Newman, in connection with his work as coordinator of the Technician's Day Program, made three television and two radio appearances, made a talk at a Counselors' Dinner, and spoke to a group of high-school students.

G. R. Orvold spoke at Marietta High on a Career Day program, made one television appearance, and served on an ECPD Accreditation Team.

Mrs. Julia Parker headed a nationwide committee of the Special Libraries Association in preparing a basic book list for engineering technology libraries. She is chairman of the Public Relations Committee and member of the Advisory Council of the Georgia Chapter of the Special Libraries Association and is a member of the American Library Association and of the

Southeastern Libraries Association. She has attended all meetings of the Georgia Chapter of the SLA except one out-of-state meeting and has attended several staff meetings of the Main Library as an honorary member. She also attended the meeting of the librarians of the University Center at Georgia Tech in April, 1965, and represented Southern Tech at the national convention of the Special Libraries Association in St. Louis in June, 1964.

Rolf W. Rokey is Safety Consultant to the City of Marietta, co-chairman of the Disaster Committee of the Cobb County American Red Cross, and member of the joint State of Georgia and Armed Forces Traffic Safety Committee and the Southeastern Traffic Safety Conference. He is teaching special traffic investigation methods to the Cobb County Police Department. He has talked on traffic accidents to ten civic clubs and three church clubs and to an Officers' Wives Club on transportation in South America.

Wesley C. Royer is Chairman of the Board, Cobb County Unit of the American Cancer Society; president of the Southern Tech Boosters Club; and a member of the Steering Committee of the Marietta Men's Garden Club.

H. M. Schenk conducted two seminars in Industrial Instrumentation and Control for Epsilon Pi Xi.

During the summer of 1964 W. O. Spaeth served as a consultant in telephone traffic engineering and taught short courses in traffic while he was employed in the Engineering Department of the Standard Telephone Company of Blaireville, Georgia.

Ernest R. Stone was a Sales Engineering Consultant for the Hooker Reid Company during the summer of 1964.

T. M. Sullivan received an appointment as a member of the Technical Advisory Committee to the State Board of Examiners of Warm Air Heating Contractors.

D. E. Summers served as a consultant in the solid state field for local industries, conducted fallout shelter management courses for the Department of Defense, conducted conferences for county officials in the civil defense area for the Department of Defense, and served on the Marietta Board of Electrical Examiners and on the Student Activities Committee of the IEEE Southeastern Region.

W. L. Thomas and three Southern Tech students conducted in November, 1964, a two-week course in LP-Gas safety, installation, and servicing for Welch C. Bryant, a Tennessee fire safety inspector.

Mr. Thomas served as a consultant for the Fire Marshal of the State of Georgia. He conducted a one-week short course for Gas, Inc., and he is a member of the Education Committee of the National Liquefied Petroleum Gas Association. Under his direction the Gas Engineering Technology Department had an exhibit at the National LP-Gas Trade Show in May, 1965.

Yardy T. Williams served on an ECPD Visitation Committee for evaluating technical institute curriculums.

#### **VII. New Construction:**

Southern Tech's first dormitory was completed in time to be occupied for the spring quarter of this year. It is fully air conditioned, will house 186 students, and has a cafeteria capable of serving 500.

The construction on the second dormitory is well under way and should be completed in time for occupancy in the fall of 1965. This dormitory is also air conditioned and will house 300 students. These two dormitories when completed will approximately match our present needs.

Plans and specifications for our Physical Education Multi-Purpose building are complete and should be released for bids during June of 1965.

Plans and specifications for our Library are nearly complete; however, federal matching funds which are necessary to completely finance the project will not be available before the 1965-66 fiscal year.

#### **VIII. Gifts:**

The Arrow Company for the Library	\$1,000.00
Estate of Larry J. Cooper for general use	300.00
Marietta Area Civic Clubs for Scholarship-Loan Funds	2,700.00
Marietta Masonic Temple for Loan Fund	100.00
STI Alumni and their companies - Scholarship-Loan	166.00
Tech Annex for Library books	35.00
Robert K. Thrower for Architectural Engineering Technology	250.00

The Western Electric Company, through its college gift program, donated a complete telephone laboratory.

#### **IX. Appraisal of Progress:**

The major accomplishment of Southern Tech during the past year was its acceptance into membership of the Southern Association of Colleges as a special-purpose institution. Only one other technical institute in the entire South has regional accreditation, and no other similar institution in the South has both regional and national accreditation. (Southern Tech has had curricula accredited nationally by ECPD since 1950).

Southern Tech accepted Negro students into the regular program for the first time this past year. Six Negro students started a special Southern Railway course last July, and three Negro students began our regular program in September. To our complete satisfaction there were no incidents--not even minor ones. Elaborate plans had been made to head off the

development of incidents and to handle those that did develop; however, the first functioned so smoothly that the second was not needed.

The national trend for technical institutes of the caliber of Southern Tech seems to be moving toward a four-year baccalaureate degree. A number of colleges, such as the technical institutes associated with Purdue and the University of Dayton, have moved to a four-year program of study this year. We at Southern Tech have made no plans in this direction; however, we are watching with great interest the experience of those who have made the change. If this trend gains momentum, and it very well may, we may be forced into such a program.

The three buildings now under construction meet our critical needs; however, we have a number of serious space shortages still remaining. The following two buildings represent current, not future needs.

Student Services Building - At the present time we have no space provided for students to have meetings, to congregate between classes, and to engage in other normal social activities expected on a college campus. Furthermore, both the college bookstore and post office are compressed into less than half the space actually needed; and no space is currently available for a student or a faculty lounge in the academic complex.

Plant Operations Building - Plant operations has a small area at one end of our mechanical laboratory building. Through necessity they have expanded into one of the mechanical laboratories, space which our Mechanical Engineering Technology Department could ill afford to release. Furthermore, there is no present provision for sheltered parking of physical-plant vehicles. Parking these vehicles on the street, as now must be done, is causing considerable congestion and lack of vehicular security.

Provision of the above two buildings will not only fulfill a vital need, but will also release space for expected academic expansion.

By far our most critical needs at this time are laboratory equipment and a computer. Both regional and national accrediting teams, upon inspecting us, reported that we have too little equipment and that much of what we have needs replacing. Although we have been turning all funds we can into laboratory equipment, it will take at least a half million dollars to bring our laboratories up to reasonable standards.

Technical trends are forcing us into the field of computers. It has become necessary for us to teach programming and to prepare students to use computers in their work. To this end we need a good small computer designed to handle engineering problems. Such a computer has just been developed by IBM and can be purchased for less than \$75,000.00.

X. Difficulties and Accomplishments:

We still need additional teaching personnel. Under the present plan of completely integrating day and night schools, we have been unable to materially reduce overtime teaching in the night programs because of this lack. It will require five or six additional staff members to absorb the night school teaching load, and funds have not been available to hire them.

Southern Tech graduates are being accepted with increasing enthusiasm by industry. Although opportunities for our graduates have always been good, the increase in demand for them this year is marked. More important, however, is the fact that the overwhelming majority of the men are being placed in industry in Georgia.

This past year has been a busy one for the faculty and staff of Southern Tech, and we are indeed grateful for the understanding and assistance offered us by the officials of Georgia Tech and the Board of Regents. A continuation of this kind of cooperation should enable us to enhance the national reputation which the fine faculty at Southern Tech has already earned for the school.

Sincerely,

H. L. McClure  
Director

July 1, 1966

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Nineteenth Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1965-1966.

I. Faculty:

1. Additions, Replacements, and Resignations in Faculty and Staff:

Additions:

Calhoun, Alford Earl  
Franklin, Kenneth E.  
Oxford, Earl T.

Assistant, Industrial Department  
Instructor, Mechanical Department  
Instructor, Chemistry and Physics  
Department

Van Hoy, John W.

Assistant, Architectural Department

Retirement:

Sojourner, Jasper B.

Assistant, English Department

Deaths:

Lambert, Clark M.

Associate, Chemistry and Physics  
Department

Norton, William E.

Dormitory Supervisor

Resignations:

Dunn, John E.

Assistant, Architectural Department

McClure, Theodore R.

Instructor, English Department

Raise in Rank of Faculty Members:

Carter, Robert C.	Associate to Professor, Electrical Department
Gordon, William M.	Assistant to Associate, Civil Department
Williams, Yardy T.	Assistant to Associate, Electrical Department
Bruce, George W.	Instructor to Assistant, Electrical Department
Burton, Walter E.	Special Lecturer to Instructor, Electrical Department

Staff Members:

Additions:

Carrier, Willene	Clerk, Library
Couch, Anne R.	Secretary, English Department
Furline, Andrea	Clerk, Registrar's Office
Hulsey, Marion E.	Secretary, Industrial Department
Marschner, Dorothy	Clerk, Registrar's Office
Hilton, Betty S.	Telephone Operator
Cash, Adele H.	Secretary, Industrial Department

Resignations:

Newbury, Margaret	Telephone Operator
Hulsey, Marion E.	Secretary, Industrial Department

2. On Leave:

Defore, Jesse J.	Graduate Work, Florida State University (1965-1966)
Mobley, Cleon M.	Graduate Work, University of Missouri (1965-1966)
Parlett, Lawrence L.	Graduate Work, University of the Seven Seas (1965-1966)
Smith, Harry V., Jr.	Graduate Work, Florida State University (1966-1967)
Taylor, L. H.	Teaching in Pakistan (1965-1966)

3. Doing Graduate Work While in Service:

Bosher, John L.  
Calhoun, Alford Earl  
Eller, Herbert  
Heard, B. Frank  
Mobley, Cleon M.  
Parlett, Lawrence L.  
Stone, Ernest R.  
Van Hoy, John W.

Clifford W. Cowan did post-graduate work in preparation for beginning a graduate program in the fall.

Jesse W. Ellington will do graduate study at Georgia Institute of Technology this summer toward earning an M.S. in Textile Engineering.

W. S. Newman has been accepted in the Master's program in City Planning at Georgia Institute of Technology.

#### Doing Work Toward Bachelor's Degrees:

Burton, W. E., Jr.  
Edwards, R. N.  
Goodwin, James P., Jr.

#### Degrees Received During the Year:

Burton, W. E., Jr.	B.S., Oglethorpe College
Heard, B. Frank	M.B.A., Georgia State College
Mobley, Cleon M.	M.S., University of Missouri

Richard G. Denning visited technical colleges in England during the fall of 1965 on the exchange program of the ASEE and the English Speaking Union. Mr. Denning also took a three-weeks' training course at the I.B.M. facility in Endicott, New York.

Herbert Eller, Edgar Fowler, and Ralph Youngblood are again participating in the summer Polytechnic Institute program in India.

#### 4. Research, Creative Work, Publications:

Robert C. Carter published a textbook on electrical circuit analysis and R. W. Hays published one on technical report writing. Mr. Hays has also written about one-fourth of a public speaking textbook and has written twelve magazine articles (See the attached list).

Richard G. Denning published a magazine article in Technical Education News; Jesse W. Ellington published two articles in Textile Industries; and A. J. Hunkin published twelve articles in Doctors · dollars and sense.

E. J. Muller's textbook on architectural drawing will be published soon by Prentice-Hall.

Paul Smith published an article about the current two-year salary survey in the February 1966 issue of Technical Education News.

R. W. Roley has begun a study into new sewage treatment methods for a local sewage plant manufacturer.



W. L. Thomas published one magazine article in Butane-Propane News in addition to the seven written with R. W. Hays (see Mr. Hays' list).

5. Average Number of Equivalent Full-Time Teachers:

Regular Sessions	63.8
Summer Session	35.8

6. Faculty Salaries and Distribution by Rank:

	<u>No.</u>	<u>Average 9 Months Salary</u>
Professor	8	\$9,579.
Associate Professor	18	\$8,161.
Assistant Professor	20	\$6,995.
Instructor & Special Lecturer	13	\$6,588.
All Ranks	59	\$7,612.

7. Average number of students per instructor	18.7
Average instructor teaching hours/week	17.1
Average number of student credit hours/instructor	294.4
Average class size (Labs not included)	23.1

8. The academic credentials of the Southern Tech Faculty continue to improve. Of the six faculty members hired on a permanent basis this year, five had their master's degrees, and the sixth is well along with his graduate program. Two of our faculty have received bachelor's degrees this year, two will receive master's degrees this summer, and seven others are engaged in graduate programs. We have only two members of our faculty without a baccalaureate degree and both of these men should have degrees within the next year.

II. Students and Enrollment:

1. Average enrollment for regular session	1194
Cumulative enrollment for regular session	1575
Average and cumulative enrollment for summer quarter 1965	537
Average enrollment for entire year	1030
Total cumulative enrollment	1740

2. Number of Student Credit Hours Per Quarter:

Summer, 1965	7,303
Fall, 1965	21,144
Winter, 1966	18,558
Spring, 1966	<u>16,639</u>
Total	63,644

3. Quarter	Veterans		Non-Veterans		Totals		Sum Total
	M	W	M	W	M	W	
Summer, 1965	11	0	525	1	536	1	537
Fall, 1965	14	0	1319	7	1333	7	1340
Winter, 1966	14	0	1161	3	1175	3	1178
Spring, 1966	9	0	1053	2	1062	2	1064

Seven of the 1740 students on the 1965-66 cumulative roll were women. One hundred and ninety-nine (11.4%) of the 1740 were non-residents of Georgia. Nineteen of the 1740 were veterans or sons of deceased or disabled veterans.

Breakdown of Student Enrollment by Classes, 1965-66:

Summer Quarter, 1965

Freshmen	Seniors	Specials	Total
321	215	1	537

Academic Year, 1965-66

Fall	990	344	6	1340
Winter	787	388	3	1178
Spring	661	399	4	1064

4. Breakdown of Cumulative Roll by Degree-Granting Departments:

Air Conditioning Engineering Technology	69
Architectural Engineering Technology	304
Civil Engineering Technology (Both Options)	241
Electrical Engineering Technology (Electronics Option)	390
Electrical Engineering Technology (Power Option)	22
Electrical Engineering Technology (Telephone Option)	24
Gas Engineering Technology	30
Industrial Engineering Technology	180
Industrial Engineering Technology (Management Option)	150
Mechanical Engineering Technology	289
Textile Engineering Technology	35
Special Students	6
Total	1740

5. Classes at Undergraduate Level:

Class Size	5-9	10-19	20-29	30-39	40-49	Over 50
Summer Quarter	16	101	42	6	1	0
Regular Quarters	24	416	309	161	31	19
Total	40	517	351	167	32	19
% of Total Classes	3.55	45.91	31.18	14.83	2.84	1.69

The large number of classes (45.91%) in the 10-19 size is caused by the large number of laboratories whose optimum sizes fall within this range.

The number of classes with fewer than 10 students was reduced from 4.4% to 3.5% since last year, and the number of classes of 40 or over more than doubled in the same period.

6. Graduates and Degrees Awarded in 1965-66:

	<u>Graduates</u>	<u>Degrees</u>
Summer, 1965	63	70
Fall, 1965	55	57
Winter, 1966	54	63
Spring, 1966	116*	130*
	<u>63 + 225</u>	<u>70 + 250</u>
Sum Totals	288	320

\*These totals will be true only if all candidates of the Spring 1966 Quarter complete all requirements and graduate.

7. Number of Students in Extension Classes and Special Courses:

Contract Training: Training schools conducted for industry on the Southern Tech campus.

<u>Company</u>	<u>Type of School</u>	<u>Number of Schools</u>	<u>Students</u>
Southern Railway Company	Diesel electric maintenance	2 (24 weeks each)	
		Summer & Fall 1965	10
		Winter & Spring 1966	12
Southern Railway Company	Diesel mechanics	2 (16 weeks each)	16
		Spring & Summer 1966	18
Southern Railway Company	Railroad car in- spection & repair	2 (8 weeks each)	25
		Winter & Spring 1966	25

8. Quality of Scholastic Work:

In spite of the facts (1) that students entering Southern Tech in the fall quarter of 1965 had the highest averages on the CEEB Scholastic Aptitude Test (V-404: M-474) of all previous fall freshman classes; (2) that these same students had the highest first-year predicted average of all other STI entering classes; and (3) that comments from a number of faculty members support the premise that 1965-66 freshmen students are more capable scholastically, the following data hardly support the statement that all 1965-66 STI students were better scholastically. Perhaps the freshmen are, an

assumption which will have to be proved later. Furthermore, it is true that the following data pertain more to graduates than to the student body as a whole; and, therefore, these data should not be used as a criterion for measuring scholastic achievement of the entire student body. The number of dropped and probationary students is a valid criterion; but again the overall increase in size of the student body would normally increase the number dropped and the number placed on probation.

**Dropped and Probationary Students  
(Summer and Fall, 1965, Winter, 1966)**

	<u>1963-64</u>	<u>1964-65</u>	<u>1965-66</u>
Dropped	112	118	185
Probationary	157	182	243

**Graduation Point Averages**

	2.44	2.40	2.31
--	------	------	------

**Number of Graduates on Dean's List**

	25	31	-14 <sup>30</sup>
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**Winners of Honors (Graduates)**

	4.2%	6.6%	5.5%
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**Percent of Those on Cumulative Roll Who Graduated**

	20.6%	17.3%	16.5%
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**9. Extracurricular Activities and Student Conduct:**

All departmental clubs had outside speakers or showed educational films or slides at least once each quarter. Each club had a social meeting (banquet or dance) per quarter.

Three campus-wide dances were held: the Christmas Dance, Valentine Day Dance, and the Spring Dance.

The Circle K Club again sponsored Engineering Technician's Day. The Geechee Club showed films to make money for the multi-purpose building and the library.

Adviser A. J. Hunkin supervised both student publications: the newspaper, the Engineering Technician, and the yearbook, the Technician's Log. He has developed energetic and enthusiastic staffs, especially on the newspaper.

Many of the staff members have worked on the school radio station, also under Mr. Hunkin's direction. By rearranging rooms the students found more suitable quarters for the newspaper and the yearbook.

Coach Harry S. Lockhart had another successful year with intercollegiate basketball and baseball. G. M. Lawson again coached the golf team, and Harry V. Smith coached the tennis team.

The basketball team was co-champion of the Georgia Junior College conference. Averaging 93 points per game, Southern Tech led the state in scoring. Dick Waters, leading scorer in the state, made the All-State and All-Region VIII first teams and was the first Southern Tech basketball player ever named to the All-American Junior College Team. Steve Hudson, second leading scorer in the state, was named to the All-State and All-Region VIII first teams.

The baseball team won six and lost fourteen games, but Willard Byers was named to the All-State team.

Fey Lau, a Chinese student, made a good showing in the state tennis tournament.

The golf team, led by Dan Wells, finished fifth in the twelve-team state tournament in Statesboro.

The intramural program was limited by a lack of facilities but will be expanded upon completion of the new gym. Softball was run during the spring and summer quarters with nine teams in the summer and eight in the spring.

Ping-pong tables and a pool table in the recreation room of Dormitory 2 are in constant use. A weight-lifting area has also been provided in Dormitory 2.

Dean of Students C. V. Maddox reports that student conduct was generally good. However, it was necessary to suspend seven students during the year, and six were placed on disciplinary probation. The new dormitories have improved student morale considerably.

#### 10. Students Leaving for Financial Reasons; Demand for Scholarships and Jobs:

Since most students who withdraw do so between quarters without explanation, it is impossible to know how many do so for financial reasons.

Approximately 140 students applied for financial aid during the fiscal year, some of them being ineligible. Twelve students were awarded scholarships amounting to a total of \$5,765.50. Fifty received loans amounting to a total of \$24,300.00. Thirteen students were given jobs on the federally sponsored College Work-Study Program and received a total of \$4,099.51. Many students had jobs off the campus, but there is no record of these.

## 11. Placement Department:

Southern Tech graduates continue to receive more and better job opportunities with each additional college year. Because of the increasing demand by industry for technically trained personnel and the history and performance of the Southern Tech alumni, the graduating classes of some 65-100 for each quarter, 1965-66, have experienced some 300 to 400 job opportunities per quarter. We could easily have placed twice the number of students who graduated this academic year and from discussions with all types of industry this demand will continue for some time.

Last year, 1964-65, our graduates were averaging approximately \$460 per month as a beginning salary, with a range of \$400 to \$600 per month depending upon each individual's background. This year the graduate has averaged \$525 or better with a range of \$475 to \$650 per month. Most of the graduates the spring quarter were being offered starting salaries of \$550 or better.

This year we completed another two-year Salary Survey of Alumni and the data have been distributed to industry, high schools, students and parents and through the newspaper and television media.

Our Co-op Program continues to expand with each quarter; however, the demand is much greater than the number of students who will consider extending their college program. Starting salaries average about \$340 per month with quarterly increments to about \$450 for the last work period. These salaries compare equally to the senior college co-op students; most companies have the same scale for both students.

This past year Mr. Glenn Dewberry, an STI alumnus and President of Atlantic Steel Company, accepted the National Chairmanship of the STI Development Fund and has done a wonderful job. The purpose of this organization is to raise money for books for the Library and other areas of need. Up to this date this Fund has received \$8,551.92, principally from industry and from alumni. Mrs. Armenta V. Simmons, Assistant to the Placement Director, continues to work with the Alumni Association, keeping books, writing the "Alumni Corner" for the Alumni Times, etc.

## 12. Counseling:

The counselor interviewed 597 persons interested in entering Southern Tech, counseled 332 students and a few parents on personal-academic problems, and talked to 136 people about financial assistance.

During the year the counselor gave the individual test battery to twenty people and did testing for four large groups totalling 393 people.

The counselor coordinated the College Day and College Night Programs and attended fifteen programs himself. He also made seventy-seven separate calls on high-school counselors and made talks at the Calhoun High and Headland High Career Day Programs.

The counselor's office has worked closely with the foreign students during the year. A list of their names, countries, and local addresses was furnished each quarter to churches, civic clubs, and individuals who wished to invite them to picnics, parties, and religious services and to entertain them in private homes. During the year there were thirty-two foreign students from twenty countries.

### III. Significant Changes or Improvements in Existing Curricula:

The Civil Engineering Technology Department added new equipment to the Soils Laboratory, allowing more experiments to be performed, and acquired electronic distance measuring equipment from the State Highway Department to be used in the Advanced Surveying Course.

The Electrical Engineering Technology Department made minor revisions, requiring students to take English 100, Language and Logic; and MET 141, Introduction to Metal Fabrication. A new option--Electronic Computer and Control--has been approved by the Curriculum Committee. Five electronics laboratories have been remodeled and significantly improved by the acquisition of new equipment.

The English Department is making a complete study of the four regular credit courses with a view to refining them and is seeking to improve the two elective courses, which were taught for the first time this year. Some audio-visual equipment has been acquired and put to use by the department.

The Industrial Engineering Technology Department has made major changes in both the IET curricula and the Management Option curricula to upgrade, update, and coordinate the courses and adapt the curricula better to employment opportunities as indicated by the Placement Office.

During the year the Mathematics Department has refined and specialized Math 115, Computer Programming. A system of liaison by student carrier has been worked out with the Rich Computer Center, and all programs are compiled on the Burroughs 220 computer. All card punching, including corrections, is done by self-trained student key-punch operators.

A system of data transmission by telephone and use of I.B.M. card reading equipment was tested and proved very satisfactory. This equipment is on order for the coming year for lease, to determine its feasibility over a long-time operation.

The Textile Engineering Technology Department has upgraded every subject in the curriculum by changing to better textbooks, adding visual aids, and acquiring and using modern laboratory and testing equipment at Georgia Tech.

A new subject, TET 252, Modern Weaving Processes, has been added to brief the student on the latest in weaving machinery, which will be standard equipment in the plant of tomorrow.

#### IV. Library:

The librarian has continued to add to the number of volumes and periodicals in the library and has distributed a monthly acquisition list to all faculty members.

1. Number of volumes added during year 1,135  
Total number of volumes at end of year 8,118
2. The present facilities and personnel still do not meet Southern Association standards, but when the new library building is completed, the librarian hopes to meet the standards.
3. Expenditures for books and other materials \$9,400.00
4. Expenditures for personnel services \$11,500.00

#### V. Research:

Research was described under Faculty Information.

#### VI. Public Services, Publicity, Short Courses, Advisory Services:

Again both faculty and administration engaged in public services, participated in civic and professional organizations, gave advisory services, and publicized the school in many ways.

The second Open House-Engineering Technology Day, was successfully held on Sunday, April 24.

On Thursday, October 14, a plaque donated by the Marietta Kiwanis Club was unveiled in recognition of the efforts of the community in providing the new campus for Southern Tech.

Coach Harry Lockhart, Registrar L. Y. Bryant, and Librarian Julia Parker represented Southern Tech at the Georgia Junior College Association Convention at Mercer University on October 22-23, 1965.

A ground-breaking ceremony for the new library building was held on Thursday morning, May 12, 1966.

H. L. McClure, L. V. Johnson of the Engineering Extension Division, Walter Burton, Jesse Ellington, William Hurst, George Lawson, Marvin Sullivan, David Summers, L. H. Taylor, and Yardy Williams represented Southern Tech at the annual A.S.E.E. Convention at Washington State University June 20-24, 1966.

Southern Tech sponsored a Counselors' Dinner at the Dempsey Hotel in Macon on Monday, February 7, 1966. The meeting was attended by two superintendents, four principals, and ten counselors from the Macon area. Director Hoyt McClure, Counselor W. J. Glenn, and Bobby D. Anderson of the Southern Tech class of 1954 represented Southern Tech.



Counselor W. J. Glenn again directed the College Day program. Other representatives to the programs were L. Y. Bryant, John Bosher, G. L. Carroll, R. C. Carter, L. V. Johnson, Harry S. Lockhart, C. V. Maddox, and A. L. Steinkamp.

Registrar L. Y. Bryant represented Southern Tech at meetings of the Georgia Association of Collegiate Registrars and Admissions officers, the American Association of Collegiate Registrars and Admissions Officers, the Southern Regional Meeting of the College Entrance Examination Board, a meeting of the Southern Association of Colleges and Secondary Schools, and several conferences sponsored by the Office of Testing and Guidance of the Board of Regents.

G. L. Carroll represented Southern Tech at several college nights, conducted a number of visiting groups around the campus, attended the Governor's Conference on Education, represented Southern Tech at the dedication of the new Stetson Library at Mercer University, and spoke to the Headland High P-TA.

R. C. Carter was a member of an E.C.P.D. Visitation Committee which made a preliminary accreditation inspection of Thames Valley State Technical Institute, Norwich, Connecticut.

Clifford Cowan did compatibility testing and functional testing of components of the C-141A as an aircraft research engineer at Lockheed-Georgia during the summer of 1965.

Herbert Eller conducted a six-weeks course in industrial safety for the training department at Lockheed-Georgia. Mr. Eller is treasurer of the Georgia Society for the Advancement of Management.

Jesse W. Ellington attended the Thirty-third Annual Meeting of the American Apparel Manufacturers Association in June.

R. W. Hays served on accreditation teams for three preliminary inspections by the Southern Association and for two preliminary inspections by the E.C.P.D. Last summer he was a member of the faculty for the annual Institute in Technical and Industrial Communications at Colorado State University. During the academic year he was a special lecturer in Georgia Tech's Graduate School of City Planning. He has also taught two special courses to the middle management group of Southern Airways and has served as a consultant to Southern Airways and to the Tumpane Company, Inc.

As director of Public Relations and Publicity he mailed out twenty-four press releases to an average of fifty-two news media.

C. T. Holladay prepared course outlines and lesson plans for the Georgia Highway Department's Highway Engineering Technology Training Program, a night school program for employees. He also conducted a refresher course for Georgia Power Company Land Department employees to help prepare them for the licensing exam for surveyors.

William Hurst attended the convention of the American Association of Physics Teachers at Montana State University, Bozeman, Montana.

James L. Keen spent a week in June with Burlington Industries, Greensboro, North Carolina, for orientation on utilization of industrial engineers in the Burlington plants.

W. S. Newman participated in a two-weeks' short course in construction problems of the heating, air conditioning, and plumbing trades, sponsored by the Industrial Management Department of Georgia Tech.

C. R. Orvold participated in a preliminary E.C.P.D. accreditation inspection of the Ohio College of Applied Science. Mr. Orvold has been selected by the Department of Health, Education and Welfare as project director for the preparation of outline curricula for architectural engineering technology and building construction technology.

Librarian Julia Parker has been active in the Special Libraries Association and is chairman of the SLA Engineering Section Book List Project Committee. She attended the meeting of the Georgia Chapter of SLA in Atlanta in October, the business-dinner meeting of the South Atlantic Chapter in Atlanta in March, and the annual Special Libraries Association Convention at Minneapolis in May.

R. W. Roley is conducting driver research studies in a co-op program with the Home Transportation Company and is a special road checker for the American Trucking Association. He has lectured to nineteen local groups on "Highway Safety."

Paul V. Smith has visited a number of industrial firms for orientation in utilization these firms make of Southern Tech graduates. He visited the DuPont Company in Wilmington, Delaware in June, and he attended a placement orientation meeting at Burlington Industries in Greensboro, North Carolina in April. He then attended the Regional A.S.E.E. meeting in that city.

David E. Summers is a member of the Board of Electrical Examiners of Marietta and is on the Student Activities Committee of the I.E.E.E.

W. L. Thomas and twelve students represented Southern Tech at the National LP-Gas Association Convention at Chicago in May. Mr. Thomas has tested LP-Gas equipment for the fire marshal and has acted as a consultant to the Education Committee for the National Liquefied Petroleum Association.

Yardy T. Williams served on an E.P.C.D. committee for evaluating technical institute curriculum and was a member of the I.E.E.E. Education Committee studying criteria for evaluating electrical and electronics technology programs.

W. E. Burton, Jr., G. W. Bruce, R. C. Carter, C. W. Cowan, L. G. Cuba, J. C. Meintzer, Jr., and Y. T. Williams participated in the six contract courses conducted on the Southern Tech campus for the Southern Railway Company.

**II. New Construction:**

Southern Tech's second dormitory was completed in time to be used for the fall quarter of 1965. It is air conditioned and will house 300 men. Dining facilities were provided in the first dormitory, which was completed in March of 1965. These two dormitories are inadequate for our needs in the fall quarter; however, our fairly high attrition rate negates our requesting additional dormitory space at this time.

Our Physical Education Multi-Purpose Building was begun last August and should be completed in late summer. The road and sidewalks linking this building with the remainder of the campus and a 200-car parking lot will be provided during the summer also. This latter construction is the joint responsibility of the City of Marietta and Cobb County. This total facility represents a vital need at Southern Tech, especially since the Larry Bell Auditorium which we had been using was burned last year.

Construction on our library was begun on approximately the first of May and is scheduled for completion in one year. This building is also urgently needed because we have standing room only in our library space during the middle of the day. Furthermore, we do not have space for the limited book holding we now possess.

**III. Gifts:**

The Arrow Company	\$1,000.00
Robert K. Thrower, Inc.	250.00
John I. Alford for a student loan fund	1,500.00
Sybil Lambert for a scholarship fund	500.00

**IX. Appraisal of Progress:**

The quality of our faculty continues to improve. We have not only been very fortunate in having well-qualified people available when needed, but have also had excellent response in encouraging our present faculty to pursue further education.

This year we were one of six technical institutes selected nationally to form a consortium for the purpose of developing pilot curricula for the business machine industry. This project is being financed largely by the industry itself with some financial help for teacher training from the Department of Health, Education, and Welfare. It appears now that the Computer and Controls Option developed by our Electrical Engineering Technology Department is our answer to this need.

Last year's report mentioned the national trend of quality technical institutes that seemed to be developing toward four-year baccalaureate curricula. This trend is becoming more pronounced with several institutions of national reputation having committed themselves to a baccalaureate program in technology. This is not a "watered-down" engineering program, but is designed to produce engineering technicians with broader backgrounds than the present two-year curricula

can provide. Southern Tech has no definite plans in this direction at the moment, but we are still watching the experience of the committed schools with great interest.

Our teaching of special classes for industry continues to grow, especially our work for the Southern Railway System. In fact, we are rapidly approaching the limit of our physical facilities to handle such programs. We firmly believe that providing specialized training of this type for Southern industry is one of the purposes for our existence, and it certainly enhances our reputation in the region.

#### X. Difficulties and Accomplishments:

We are still in need of additional teaching personnel. Although we have more budgeted for the coming year, these are needed to meet anticipated increases in enrollment--not to alleviate present overtime teaching.

We are also still in urgent need of two buildings--a Physical Plant Building and a Student Services Building. Our physical plant department is crowded into one end of an academic building occupying space badly needed by the Mechanical Engineering Technology Department. There is still no space on the academic campus for student lounges. This means that, in inclement weather, commuting students have no place to go except to the halls of the buildings or to their cars. The college bookstore and post office are crowded into less than half the space needed.

The completion of our Physical Education Multi-Purpose Building brings into sharper focus our need for outside recreational facilities. Two tennis courts are being rough graded by the building contractor, but no funds are available to complete them. We have no ball field for intramural activities. Both of these are "must" items to provide an adequate intramural program for our student body.

Our most critical need continues to be equipment for our laboratories, library books, and a computer. We still need at least a half million dollars to bring our laboratories up to national standards.

We need at least one hundred thousand dollars for library books. Our alumni association has a fund-raising drive going now to help us raise part of this amount, but our present allocation for books is not sufficient to maintain a library holding.

We are teaching computer programming as a service course to most of our degree-granting departments, and indications are that this offering will have to be expanded. This dictates the need for easy availability of computer facilities. We are presently developing a stop-gap system of transmitting punch card data to the Georgia Tech computer center for processing, but this is only an expedient.

Once again this year we owe a debt of gratitude to the administration of Georgia Tech, to the Chancellor's office, and to the Board of Regents of the University System for their sympathetic understanding of our problems and for the aid they were always willing to offer. This fine spirit of cooperation has made 1965-66 a banner year for Southern Tech.

Sincerely,

H. L. McClure  
Director

ILM/st

June 30, 1965

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Eighteenth Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1964-1965.

I. Faculty:

1. Additions, Replacements, and Resignations in Faculty and Staff:

Additions:

Armstrong, Lee H.	Instructor, Mathematics Department
Bruce, George W.	Instructor, Electrical Department
Bush, Stephen G.	Instructor, Chemistry and Physics Department
Carmichael, Thomas H.	Instructor, Industrial Department
Cowan, Clifford W.	Assistant, Electrical Department
Dunlap, Donald S.	Instructor, Mathematics Department
Ellington, Jesse W.	Assistant and Department Head, Textile Department
Heard, B. Frank	Instructor, Industrial Department
Schenk, Harry M.	Assistant, Chemistry and Physics Department
Smith, Paul V.	Placement Director
Williams, Yardy T.	Assistant and Department Head Electrical Department

Retirement:

Alford, John I.	Associate and Department Head, Textile Department
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(Mr. Alford will continue to work at Georgia Tech for another year.)

Resignations:

Bush, Stephen G.

Instructor, Chemistry and Physics  
Department

Spaeth, W. O.

Special Lecturer, Electrical  
Department

Watkins, Robert B.

Instructor, Textile Department

Raise in Rank of Faculty Members:

Williams, Yardy T.

Appointed Head of Electrical  
Department

Myatt, Robert L., Jr.

Associate to Professor, Civil  
Department

Blair, Marion E.

Assistant to Associate, English  
Department

Denning, Richard G.

Assistant to Associate, Mathematics  
Department

Lawson, George M.

Assistant to Associate, Industrial  
Department

Anderson, Theodore W.

Instructor to Assistant, Industrial  
Department

Day, Parker S.

Instructor to Assistant, Drawing  
Department

Keen, James L., III

Instructor to Assistant, Industrial  
Department

Parlett, Lawrence L.

Instructor to Assistant, Industrial  
Department

Summers, David E.

Instructor to Assistant, Electrical  
Department

Staff Members:

Additions:

Morgan, Myra C.

Clerk, Registrar's Office

Harman, Norma Jean

Clerk, Registrar's Office

Richardson, Darlene

Secretary, English Department

Meadows, Doris

Secretary, Electrical Department

French, Glenda

Typist, Registrar's Office

Resignations:

Bowen, Margaret

Clerk, Registrar's Office

Adams, Patsy

Clerk, Registrar's Office

Harman, Norma Jean

Clerk, Registrar's Office

Dobbs, Amanda

Secretary, English Department

Richardson, Darlene

Secretary, English Department

Cash, Adele

Secretary, Electrical Department

2. On Leave:

Defore, Jesse J.	Graduate Work, Florida State University (1965-1966)
Mobley, Cleon M.	Graduate Work, University of Missouri (1965-1966)
Parlett, Lawrence L.	Graduate Work, University of the Seven Seas (1965-1966)
Taylor, L. H.	Teaching in Pakistan (1965-1966)

3. Doing Graduate Work While in Service:

Bosher, John L.  
Bush, Stephen  
Carmichael, T. H.  
Cowan, C. W.  
Denning, Richard G.  
Mobley, C. M.  
Stone, Ernest R.

Doing Work Toward Bachelor's Degrees:

Burton, W. E., Jr.  
Goodwin, J. P.  
Thomas, Weldon L.

Degrees Received During the Year:

Bosher, John L.	M.B.A., Georgia State
Carmichael, T. H.	M.S.I.E., Georgia Tech
Denning, Richard G.	M.S.M.E., Georgia Tech
Goodwin, J. P.	A.S., Pacific International University
Thomas, Weldon L.	B.S.M.E., Georgia Tech

Richard Denning has been selected by the ASEE and the English Speaking Union to visit technical colleges in England during the fall of 1965.

Herbert Eller, Edgar Fowler, J. L. Keen, and Ralph Youngblood have been selected to participate in the summer Polytechnic Institute program in India during the summer of 1965. Three of our faculty, Mr. Eller, Mr. Youngblood, and Mr. R. L. Myatt, participated in this program last year.

W. O. Spaeth attended a one-week telephone transmission school given by the Standard Telephone Company in Blairsville, Georgia.



4. Research, Creative Work, Publications:

M. E. Blair, in his study of teaching paragraph development, has done some difficult research which may not pay off noticeably for several years. He hopes, however, to discover a much more effective method of teaching the subject than those now being used.

Stephen Bush did solid-state research in the field of electron paramagnetic resonance and color centers. His thesis on the subject is entitled "The Change of the Mean Magnetic Relaxation Time of F-Centers Due to Optical Bleaching in KCl."

R. W. Hays developed two complete sets of negative slide films for use in teaching public speaking and report writing. They were prepared for the Open House program but have proved useful in the actual teaching program.

During the fiscal year Mr. Hays published eight articles in periodicals and wrote a textbook entitled Principles of Technical Writing, which will be published by the Addison-Wesley Publishing Company. A list of the articles follows:

- "Training Building-Construction Technicians at Southern Technical Institute." Technician Education Yearbook. Ann Arbor, Michigan: Prakken Publications, Inc., 1964.
- "They Install Electric Air Conditioning," Butane-Propane News. June 1964. Vol. 26, No. 6. pp. 54-56. (Written under pseudonym of "Conrad Copeland")
- "In Carburetion, You Win or Lose on Mechanical Ability," Butane-Propane News. Vol. 26, No. 6. pp. 83-86.
- "Small Staff--No Frills," Southern Engineering. June 1964. Vol. I, No. 10. pp. 26-28.
- "How Much Does the Graduate Engineering Technician Make?" Journal of Engineering Education. July-August 1964. Vol. 54, No. 11. pp. 391-392.
- "Almost Total-Energy Package Used in Atlanta Apartment." Gas. August 1964. Vol 40, No. 8. pp. 107-109.
- "Medium-Sized Independent Puts on His Own Professional Service School," Butane-Propane News. September 1964. Vol. 26, No. 9. pp. 50-52.
- "Fire Official Gets Training in LP-Gas--Fast," Butane-Propane News. April 1965. Vol. 27, No. 4. pp.58-59.

T. R. McClure is doing a pilot study of programmed learning for the English Department and has used a programmed text in Remedial English this term.

C. M. Mobley performed research at the Experiment Station at Georgia Tech while serving as a consultant on special instrumentation problems. He collaborated in publishing the following technical report:

Mobley, C. M., L. W. Elston, and W. H. Burrows, "Exhaust Gases from Engines Having Special Controls," Final Report, Research Grant No. AP-00225, U.S. Public Health Service, Georgia Institute of Technology, September 1964.

Mrs. Julia Parker wrote the first handbook for the Southern Tech Library during the summer of 1964. She also compiled a staff manual for student assistants and wrote a job description for the librarian.

Melvin Sorrells, in cooperation with the State Highway Department, designed and built a machine to measure the coefficient of friction of asphalt road surfacing. This machine has been accepted for the final test of the asphalt for the State Highway Experimental Laboratory.

W. L. Thomas built a network gas distribution system simulator for his department. Mr. Thomas also published a magazine article, as follows:

Thomas, W. L., and Dr. E. B. Schultz, "Cell Age is Coming," Butane-Propane News, Vol. 26, No. 5.

E. J. Muller is well under way with a book on architectural drawing to be published by Prentice-Hall in 1966.

5. Average Number of Equivalent Full-Time Teachers:

Regular Sessions	62.5
Summer Session	35.2

6. Faculty Salaries and Distribution By Rank:

	<u>No.</u>	<u>Average 9 Months Salary</u>
Professor	7	\$9,341.
Associate Professor	17	8,032.
Assistant Professor	16	6,772.
Instructor & Special Lecturer	19	6,289.
All Ranks	59	7,284

7. Average number of students per instructor 17.5  
 Average instructor teaching hours/week 17.7  
 Average number of student credit hours/instructor 273.4  
 Average class size (Labs not included) 22.5
8. The academic credentials and the quality of teaching are continuing to improve. Of the seven faculty members hired on a permanent basis this year, five had their master's degrees, one has completed his advanced degree this year, and the remaining man is working on his graduate program now. Three of our faculty received their master's degrees this past year, three will be on leave for graduate work next year, and at least six others have embarked on advanced study on a part-time basis.

## II. Students and Enrollment

1. Average enrollment for regular session 1091  
 Cumulative enrollment for regular session 1397  
 Average and cumulative enrollment for summer quarter 1964 574  
 Average enrollment for entire year 962  
 Total cumulative enrollment 1639

2. Number of Student Credit Hours Per Quarter:

Summer, 1964	8,045
Fall, 1964	18,883
Winter, 1965	17,159
Spring, 1965	15,137
<b>Total</b>	<b>59,274</b>

3. <u>Quarter</u>	<u>Veterans</u>		<u>Non-Veterans</u>		<u>Total</u>		<u>Sum Total</u>
	M	W	M	W	M	W	
Summer, 1964	12	0	561	1	573	1	574
Fall, 1964	18	0	1156	6	1174	6	1180
Winter, 1965	16	0	1081	5	1097	5	1102
Spring, 1965	16	0	969	6	935	6	991

Nine of the 1639 students on the 1964-65 cumulative roll were women. One hundred and seventy-three (9.47%) of the 1639 were non-residents of Georgia. Twenty-two of the 1639 were veterans or sons of deceased or disabled veterans.

Breakdown of Student Enrollment by Classes, 1964-65:

Summer Quarter, 1964

<u>Freshmen</u>	<u>Seniors</u>	<u>Total</u>
279	295	574

Academic Year, 1964-65

Fall	795	385	1180
Winter	739	363	1102
Spring	665	326	991

4. Breakdown of Cumulative Roll by Degree-Granting Departments:

Air Conditioning Engineering Technology	96
Architectural Engineering Technology	254
Civil Engineering Technology	248
Electrical Engineering Technology (Electronics Option)	341
Electrical Engineering Technology (Power Option)	26
Electrical Engineering Technology (Telephone Option)	37
Gas Engineering Technology	36
Industrial Engineering Technology	140
Industrial Engineering Technology (Management Option)	164
Mechanical Engineering Technology	240
Textile Engineering Technology	41
Special Students	<u>16</u>
<b>Total</b>	<b>1639</b>

5. Classes at Undergraduate Level:

<u>Class Size</u>	<u>5-9</u>	<u>10-19</u>	<u>20-29</u>	<u>30-40</u>	<u>Over 40</u>
Summer Quarter	0	98	50	8	0
Regular Quarters	<u>47</u>	<u>413</u>	<u>308</u>	<u>121</u>	<u>22</u>
<b>Total</b>	<b>47</b>	<b>511</b>	<b>358</b>	<b>129</b>	<b>22</b>

The large number of classes in the 10-19 size is caused by the large number of laboratories whose optimum class size falls into this category.

The number of classes with fewer than 10 students amounted to 4.4% of the total number of classes. The small classes were largely in two departmental options of small enrollment. Both of these options have been discontinued, and the number of very small classes should decline accordingly.

6. Graduates and Degrees Awarded in 1964-65:

	<u>Graduates</u>	<u>Degrees</u>
Summer, 1964	76	81
Fall, 1964	58	59
Winter, 1965	49	57
Spring, 1965	<u>101*</u>	<u>107*</u>
	76 + 208	81 + 233
 Sum Totals	 284	 314

\*Correctness of these totals is contingent upon the graduation of all candidates enrolled in the Spring Quarter of 1965.

7. Number of Students in Extension Classes and Special Courses:

Contract Training: Training schools conducted for industry on the Southern Tech campus.

<u>Company</u>	<u>Type of School</u>	<u>Number of Schools</u>	<u>Students</u>
Southern Railway Company	Diesel electric maintenance	1 (two quarters) Summer & fall 1964	12
Southern Railway Company	Diesel mechanics	1 (16 weeks) Summer & fall 1964	12
Southern Railway Company	Diesel electric maintenance	1 (two quarters) Spring & summer 1965	8
Southern Railway Company	Diesel mechanics	1 (16 weeks) Summer 1965	16

8. Quality of Scholastic Work:

Though there is not much evidence to indicate improvement, the quality of scholastic work at Southern Tech throughout 1964-65 is very difficult to assess because of inconsistencies among the criteria. The following data pertinent to scholarship in 1964-65 might help to explain the foregoing statement.

Dropped and Probationary Students  
(Summer and Fall, 1964, Winter, 1965)

	<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>
Dropped	98	112	118
Probationary	170	157	182

<u>1962-63</u>	<u>1963-64</u>	<u>1964-65</u>
Graduation Point Averages		
2.46	2.44	2.40
Number of Graduates on Dean's List		
23	25	31
Winners of Honors (Graduates)		
11.1%	4.2%	6.6%
Percent of Those on Cumulative Roll Who Graduated		
20.3%	20.6%	17.3%

As will be seen, no trend toward scholastic improvement is evident. One encouraging fact is not shown: that the graduates of the Spring 1965 Quarter are perhaps the best scholastically that Southern Tech has prepared. The average of the point averages of this class (final quarter not counted) is 2.59. However, two of the classes (Summer, 1964, and Fall, 1964) detracted from the 2.59 by achieving only a 2.33 and a 2.35 respectively. Southern Tech still does not attract enough students of good scholastic ability.

9. Extracurricular Student Activities and Student Conduct:

The departmental clubs have had an average of one social function per quarter. Most clubs had outside speakers for at least one meeting per quarter, and some of them also showed educational films and slides.

The most active of the campus-wide clubs were Circle K, IEEE, BSU, and Tau Alpha Pi (Honor Society). The Circle K Club was put on the Honor Roll of Clubs announced by the Georgia District Bulletin for outstanding performance in campus activities; and as one of the student chapters of Circle K International, it shared in the George Washington Honor Medal for college campus citizenship and service in 1964. One of the activities for which the club and Adviser W. S. Newman received special recognition was the sponsorship of Engineering Technician's Day.

Two campus-wide socials were held: the Christmas Dance and the Valentine Day Dance.

At the beginning of spring quarter the new dormitory was opened for students living on campus. It is hoped that this will improve morale and make it easier for students to participate in extracurricular activities.

The student newspaper, the Engineering Technician, under the direction of Adviser T. R. McClure, won First Class Honor Rating in a judging held by the Associated Collegiate Press. The Technician's Log was again produced under the direction of Adviser M. E. Blair, who considers this yearbook to be one of the best.

Coach Harry S. Lockhart was again assisted by G. M. Lawson (Golf) and Harry V. Smith (Tennis).

The varsity basketball team won eleven games and lost fifteen and made a good showing in the tournament. Dick Waters was the leading scorer in the state, and Robert Jordan made the All-State, All-Tournament, and All-Region first teams.

The varsity baseball team won fifteen games and lost seven and tied for first place in the conference. Robert Jordan, Tim Matthews, and Don Morris were selected for the All-State Baseball Team.

Fey Lau, a foreign student from Hong Kong, was runner-up in the No. 1 singles in the State Tennis Tournament.

The golf team played several matches but could not attend the State Tournament because some of the players could not miss classes.

Since the Larry Bell Gymnasium burned during the intramural basketball season, softball was put in for the spring quarter, with eight teams participating. Softball will be continued during the summer quarter as usual.

When the new gymnasium is completed, Coach Lockhart plans to expand the intramural program considerably.

Dean of Students C. V. Maddox did an outstanding job of supervising student activities and student conduct. He reports that student conduct was generally good. However, there were cases of misconduct serious enough to warrant suspension of four students.

#### 10. Students Leaving for Financial Reasons; Demand for Scholarships and Jobs:

As usual, it is impossible to estimate the number of students leaving for financial reasons, since most of them merely withdraw between quarters without reporting their reasons.

Thirty-two students were given scholarships and loans and a few held campus jobs. Most working students, however, have jobs off the campus.

#### 11. Placement Department:

Placement Director Paul V. Smith assumed his duties in July, 1964. He reports that he found an excellent system under the direction of Mrs. Armenta V. Simmons, who now serves as Assistant to the Placement Director.

Beginning with the fall of 1964 several services were combined into the Placement Office. The main addition was the co-op program, which was added to Placement in an attempt to increase participation of both companies and students by providing a "one-stop" service.

Mr. Smith reports that the number of new industries employing graduates continues to grow, and he has been amazed at the number of opportunities afforded the graduates during this academic year. There have been many more jobs than there have been graduates to fill them, because industry has found the graduates to be of a high quality and capable of assuming responsible duties.

There have been approximately forty campus interviews a quarter and at least a hundred other opportunities through sending resumes, making plant visits, etc. Increased interest on the part of industry undoubtedly was partially due to a letter sent out to those Georgia manufacturers who could use engineering technicians but were not on the Placement Department's mailing list. Also the Department sends a breakdown of graduates each quarter to the American Apparel Manufacturers Association, and the Association advertises the graduates in its national newsletter. All alumni have been informed of the Placement Department service, and a new system has been initiated for alumni to submit resumes for Department use. The Alumni Newsletter has been continued and has provided employment opportunities for all paid members of the Alumni Association.

Another Salary Survey is being compiled, the first since 1963. If there is a good response, the report should be helpful to the Placement office in its efforts to show industry the progress of the STI graduate.

The average starting salary of graduates has steadily increased to approximately \$460.00 per month, with a range of \$400.00 to \$600.00. More students are being offered salaries of \$475.00 to \$550.00 than in previous years, with very few being offered salaries lower than \$450.00.

## 12. Counseling:

Counselor W. J. Glenn offered four types of counseling services during the 1964-65 fiscal year: counseling on personal-academic problems for 227 students; financial counseling for 105 students; personal interviewing of 613 applicants and prospective students; and testing for thirty-three individuals who requested the Otis Mental Ability Test - Gamma, the Joe Moore Business and Industrial Classification Form, the Bennett Mechanical Aptitude Test, the California Personality Test, and the Kuder Vocational Preference Test. In addition, he administered the CEEB's SAT to 83, the CEEB's Achievement Tests in English Composition and Math (Level I) to 208, and the SCAT to five for the Southern Bell Telephone Company.



During the fiscal year Mr. Glenn visited 94 different high schools in the state to contact counselors and interested students at times other than College Days and Nights. He also arranged and moderated the five Counselors' Dinners held by Southern Tech at Carrollton, Griffin, Gainesville, Tifton, and Athens. A total of 72 superintendents, principals, guidance directors, and counselors attended the dinners.

Mr. Glenn coordinated the 52 College Day and College Night programs in which Southern Tech participated. Mr. Glenn represented Southern Tech at 21 of the programs and called on Coach Harry Lockhart, Dean G. L. Carroll, Dean C. V. Maddox, Registrar L. Y. Bryant, Placement Director Paul Smith, Assistant Head of the Electrical Department J. P. Goodwin, Director H. L. McClure, and Director of the Engineering Extension Division L. V. Johnson to handle the others.

Scholarship and Scholarship-Loans amounting to \$7,617.00 were administered through the counselor's office. The State Regents' Scholarship fund furnished \$4,917.00 for fourteen students, and civic clubs of the Marietta Area provided \$2,700.00 for fifteen students. The Marietta Masonic Temple has established a \$100.00 "emergency fund" for students who need small amounts for short periods of time.

## II. Significant Changes or Improvements in Existing Curricula:

The Civil Engineering Technology Department taught six new subjects for the first time: Programming using ALGOL; Soils Mechanics and laboratory; Indeterminate Structures; Advanced Surveying; Estimating; and Geology.

The Electrical Engineering Technology Department has eliminated options, and students are now permitted to elect twelve quarter hours of the 114 hours required for graduation. The electrical laboratories have been significantly improved by the acquisition of modern oscilloscopes, transistor power supplies, coaxial devices, and semiconductor components. Material has been purchased to remodel the furniture in three electronics laboratories. A complete telephone laboratory was equipped by the Western Electric Company.

The Physics Department is testing on a uniform departmental basis in subjects taught by more than one instructor, so that grades issued by different instructors of the same subject will be as consistent as possible. Physical Science 100 is currently being taught primarily as a preparatory subject for the Southern Tech physics sequence, rather than as a course in general science. There has been a textbook change to an introductory physics text. There has been considerable concern over the objectives and level of the subject matter for the department. The present Physics 131, 132, 133, and 134 use the same text as Physics 211, 212, and 213 at Georgia Tech.

Upon the request of the Electrical Engineering Technology Department, the English Department has added an elective in logic and an elective in literature, which may also be used by students of other departments.

The Gas Engineering Technology Department acquired an engine dynamometer and some leak detection equipment through a \$500.00 gift from Ancient Cassers.

The Mathematics Department has added an introduction to computer programming.

The Mechanical Engineering Technology Department has changed MET 121, 122, 123, and 124 from 0-6-2 to 1-3-2 so as to give an hour of lecture and a three-hour lab period per week for each subject. The department has purchased, installed, and put into use three new lathes for the General Metal Laboratory.

The Textile Engineering Technology Department secured and has used hand looms to make a better presentation in teaching the fabric-design course.

#### Library

Within the last year the library provided students of Southern Tech with a continuing improvement in services and facilities. The librarian has provided reference service to students and faculty members of Southern Tech and to students and faculty of the Marietta Center of the University of Georgia. She has also maintained a separate card catalogue for the University of Georgia books housed in the Southern Tech library. The library now has a Xerox 914 duplicator and provides two typewriters for student use. The librarian has distributed a monthly acquisition list to all faculty members.

- |   |       |
|---|-------|
| 1. Number of volumes added during year  | 833   |
| Total holdings of Southern Tech volumes | 5,402 |
| University of Georgia volumes added     | 150   |
| Total holdings of University of Georgia | 600   |
2. Although the librarian has made much progress in developing the library, the present facilities and personnel do not meet Southern Association standards. Upon the completion of the new library building, the standards can be met if a considerable sum of money can be provided for books. At least \$100,000.00 will be needed initially to bring our holdings up to standard. In the meantime every effort will be made to improve the library, in spite of the limitations caused by lack of facilities and of trained personnel.
- |   |             |
|---|-------------|
| 3. Expenditures for books and other materials | \$8,700.00  |
| 4. Expenditures for personal services         | \$10,800.00 |

#### Research:

Research was described under Faculty Information.

## VI. Public Services, Publicity, Short Courses, Advisory Services:

As usual faculty and administration have performed public services, given advisory services, and participated in civic and professional organizations in such a way as to reflect credit upon the institution and to provide much favorable publicity.

As mentioned in Section II of the report, much publicity for Southern Tech was accomplished through the College Days and Nights; the Counselors' Dinners; and the visits to counselors and principals of high schools by Counselor Glenn, Director McClure, Registrar Bryant, and Director of the Engineering Extension L. V. Johnson.

Under the sponsorship of the Circle K Club and Adviser W. S. Newman, Southern Tech held its first Open House-Engineering Technology Day on Sunday, April 25, 1965. A large number of parents, alumni, and other visitors inspected the campus and enjoyed the many interesting exhibits prepared by the departments for the occasion. Governor Sanders, Cobb County Commission Chairman Ernest Barrett, and Marietta Mayor Howard Atherton issued proclamations designating April 25 as Engineering Technology Day.

Director McClure, T. W. Anderson, J. L. Boshier, J. J. Defore, J. P. Goodwin, C. T. Holladay, C. R. Orvold, H. V. Smith, E. R. Stone, T. M. Sullivan, and D. E. Summers represented Southern Tech at the ASEE Convention at the University of Maine June 22-26, 1964. Mr. Smith spoke at the TID meeting June 23 on "What Kind of Mathematics in Engineering Technology." Mr. Orvold presided at the Construction Engineering Technology meeting on June 24 and also discussed curriculum improvement for construction engineering technology.

Director McClure attended the mid-year meeting of the Technical Institute Council of the Technical Institute Division of ASEE October 7 and 8, 1964, in New York.

Director McClure, J. L. Boshier, C. W. Cowan, J. J. Defore, R. G. Denning, Frank Heard, C. M. Lambert, G. M. Lawson, C. M. Mobley, R. L. Myatt, C. R. Orvold, H. V. Smith, T. M. Sullivan and possibly W. S. Newman, E. R. Stone, and W. W. Vaughn were scheduled to attend the 1965 ASEE Convention at Chicago June 21-25. Mr. McClure was to preside on Wednesday, June 23, at the TID-TIC meeting on Government Participation in Technical Institute Education. He is also secretary of the Technical Institute Division.

Director McClure served as president of the Marietta-Cobb County YMCA and president of the Marietta High P-TA. He was also Chairman of the Scrapbook Committee of the Marietta Rotary Club. The scrapbook was judged best in the state.

L. G. Cuba is chairman of the Education Committee of the American Society of Tool and Manufacturing Engineers and is a member of the Board of Directors of the East Marietta Lions Club.

J. I. Alford called on fourteen high schools and ten textile plants during the fiscal year. He consulted with one garment plant on the problem of formaldehyde in the air when the plant is air conditioned. He is working with the American Garment Manufacturers Association and the Tufted Textile Manufacturers Association to determine whether the time is ripe to put in special courses to serve the needs of these industries.

Registrar L. Y. Bryant's activities were restricted by much additional work as a result of increased enrollment, taking over records of technical institute students from the former Engineering Evening School, and personnel turnover in his office. However, he represented Southern Tech at numerous College Day and College Night programs, attended several meetings set up by the Department of Guidance and Testing of the Chancellor's office, attended the meeting of the Georgia Association of Collegiate Registrars and Admissions Officers, and participated in activities of several professional organizations.

T. W. Anderson was assigned to the Committee on Research and Special Studies of the American Society of Training and Development.

G. L. Carroll represented Southern Tech at several College Nights, planned and directed the visits of a number of groups and individuals who were interested in the curricula, buildings, and equipment at this institution, including two English visitors on the ASEE-English-Speaking Union Tour and two visitors from the Ministry of Education of India. On June 3 he represented the school at the dedication of the Roberts Memorial Library at Middle Georgia College.

J. J. Defore, as executive secretary of Tau Alpha Pi, assisted in chartering ceremonies for Theta Pi Chapter at Old Dominion College in Norfolk.

Clark Lambert, Richard Denning, Coach Harry Lockhart, and C. M. Mobley represented Southern Tech at the annual meeting of the Georgia Association of Junior Colleges at Augusta College October 23-24, 1964.

W. J. Glenn spoke to the Marietta Optimist Club and showed the filmstrip "Engineering Technology" on August 3, 1964.

J. P. Goodwin participated in the administration of the two diesel electricians' programs conducted for Southern Railway System, represented Southern Tech at several College Day and Career Day programs, and served on several ECPD inspection teams.

W. H. Gordon attended a Water Resources Engineering Conference in Mobile, Alabama, March 8-12, 1965.

C. M. Mobley served as a consultant concerning problems of testing and developing patented devices used in the prevention of air pollution.

R. W. Hays addressed the student body of Young Harris College at a convocation on October 8. Mr. Hays was on the faculty of the Radiologic Technologist Student Seminar sponsored by the Atlanta Society of X-Ray Technicians at the Academy of Medicine February 7, 8, and 9, 1965. He made two lectures on "Scientific, Technical Writing."

Mr. Hays was selected for membership in the International Platform Association, which includes such notables as Edgar Bergen, Drew Pearson, and Hal Holbrook. He brought favorable attention to the school through teaching almost the entire top management of Southern Airways courses in Public Speaking and Efficient Reading and in addition he spoke at the graduation banquet which concluded the courses.

Mr. Hays again handled the publicity for the school. He sent out frequent press releases to 43 news outlets, presented one television program and four radio programs, and arranged six special radio announcements. His publicity activity also included planning and carrying out the Open House program and the Miss Southern Tech contest. In addition he has answered a large number of inquiries, partly by telephone, partly written. His principal difficulty was lack of natural news. Many events which were publicized were unfortunately of minor importance.

Mr. Hays is listed in Who's Who in American Education, Who's Who in the South and Southwest, The Dictionary of International Biography, and the International Platform Association.

C. T. Holladay served on the Civil Technology Advisory Board of the U. S. Office of Education; was a member of an ECPD Accreditation Team, State University, Agricultural and Technical Institute, Alfred, New York; and was moderator at one session of a Short Course on Surveying at Georgia Tech in January, 1965.

Clark M. Lambert served as vice president of the Alumnus Delta Chapter of the Kappa Phi Kappa Professional Education Fraternity and was elected president for 1965-1966. He is on the Board of Directors of the Dunwoody Lions Club.

William S. Newman, in connection with his work as coordinator of the Technician's Day Program, made three television and two radio appearances, made a talk at a Counselors' Dinner, and spoke to a group of high-school students.

C. R. Orvold spoke at Marietta High on a Career Day program, made one television appearance, and served on an ECPD Accreditation Team.

Mrs. Julia Parker headed a nationwide committee of the Special Libraries Association in preparing a basic book list for engineering technology libraries. She is chairman of the Public Relations Committee and member of the Advisory Council of the Georgia Chapter of the Special Libraries Association and is a member of the American Library Association and of the

Southeastern Libraries Association. She has attended all meetings of the Georgia Chapter of the SLA except one out-of-state meeting and has attended several staff meetings of the Main Library as an honorary member. She also attended the meeting of the librarians of the University Center at Georgia Tech in April, 1965, and represented Southern Tech at the national convention of the Special Libraries Association in St. Louis in June, 1964.

Rolf W. Roley is Safety Consultant to the City of Marietta, co-chairman of the Disaster Committee of the Cobb County American Red Cross, and member of the joint State of Georgia and Armed Forces Traffic Safety Committee and the Southeastern Traffic Safety Conference. He is teaching special traffic investigation methods to the Cobb County Police Department. He has talked on traffic accidents to ten civic clubs and three church clubs and to an Officers' Wives Club on transportation in South America.

Wesley C. Rayer is Chairman of the Board, Cobb County Unit of the American Cancer Society; president of the Southern Tech Boosters Club; and a member of the Steering Committee of the Marietta Men's Garden Club.

H. M. Schenck conducted two seminars in Industrial Instrumentation and Control for Epsilon Pi Xi.

During the summer of 1964 W. O. Spaeth served as a consultant in telephone traffic engineering and taught short courses in traffic while he was employed in the Engineering Department of the Standard Telephone Company of Blairsville, Georgia.

Ernest R. Stone was a Sales Engineering Consultant for the Hooker Reid Company during the summer of 1964.

T. M. Sullivan received an appointment as a member of the Technical Advisory Committee to the State Board of Examiners of Warm Air Heating Contractors.

D. E. Summers served as a consultant in the solid state field for local industries, conducted fallout shelter management courses for the Department of Defense, conducted conferences for county officials in the civil defense area for the Department of Defense, and served on the Marietta Board of Electrical Examiners and on the Student Activities Committee of the IEEE Southeastern Region.

W. L. Thomas and three Southern Tech students conducted in November, 1964, a two-week course in LP-Gas safety, installation, and servicing for Welch C. Bryant, a Tennessee fire safety inspector.

Mr. Thomas served as a consultant for the Fire Marshal of the State of Georgia. He conducted a one-week short course for Gas, Inc., and he is a member of the Education Committee of the National Liquefied Petroleum Gas Association. Under his direction the Gas Engineering Technology Department had an exhibit at the National LP-Gas Trade Show in May, 1965.

Yardy T. Williams served on an ECPD Visitation Committee for evaluating technical institute curriculums.

#### VII. New Construction:

Southern Tech's first dormitory was completed in time to be occupied for the spring quarter of this year. It is fully air conditioned, will house 186 students, and has a cafeteria capable of serving 500.

The construction on the second dormitory is well under way and should be completed in time for occupancy in the fall of 1965. This dormitory is also air conditioned and will house 300 students. These two dormitories when completed will approximately match our present needs.

Plans and specifications for our Physical Education Multi-Purpose building are complete and should be released for bids during June of 1965.

Plans and specifications for our Library are nearly complete; however, Federal matching funds which are necessary to completely finance the project will not be available before the 1965-66 fiscal year.

#### VIII. Gifts:

The Arrow Company for the Library	\$1,000.00
Estate of Larry J. Cooper for general use	300.00
Marietta Area Civic Clubs for Scholarship-Loan Funds	2,700.00
Marietta Masonic Temple for Loan Fund	100.00
STI Alumni and their companies - Scholarship-Loan	166.00
Tech Annex for library books	35.00
Robert K. Thrower for Architectural Engineering Technology	250.00

The Western Electric Company, through its college gift program, donated a complete telephone laboratory.

#### IX. Appraisal of Progress:

The major accomplishment of Southern Tech during the past year was its acceptance into membership of the Southern Association of Colleges as a special-purpose institution. Only one other technical institute in the entire South has regional accreditation, and no other similar institution in the South has both regional and national accreditation. (Southern Tech has had curricula accredited nationally by ECPD since 1950).

Southern Tech accepted Negro students into the regular program for the first time this past year. Six Negro students started a special Southern Railway course last July, and three Negro students began our regular program in September. To our complete satisfaction there were no incidents--not even minor ones. Elaborate plans had been made to head off the

development of incidents and to handle those that did develop; however, the first functioned so smoothly that the second was not needed.

The national trend for technical institutes of the caliber of Southern Tech seems to be moving toward a four-year baccalaureate degree. A number of colleges, such as the technical institutes associated with Purdue and the University of Dayton, have moved to a four-year program of study this year. We at Southern Tech have made no plans in this direction; however, we are watching with great interest the experience of those who have made the change. If this trend gains momentum, and it very well may, we may be forced into such a program.

The three buildings now under construction meet our critical needs; however, we have a number of serious space shortages still remaining. The following two buildings represent current, not future needs.

Student Services Building - At the present time we have no space provided for students to have meetings, to congregate between classes, and to engage in other normal social activities expected on a college campus. Furthermore, both the college bookstore and post office are compressed into less than half the space actually needed; and no space is currently available for a student or a faculty lounge in the academic complex.

Plant Operations Building - Plant operations has a small area at one end of our mechanical laboratory building. Through necessity they have expanded into one of the mechanical laboratories, space which our Mechanical Engineering Technology Department could ill afford to release. Furthermore, there is no present provision for sheltered parking of physical-plant vehicles. Parking these vehicles on the street, as now must be done, is causing considerable congestion and lack of vehicular security.

Provision of the above two buildings will not only fulfill a vital need, but will also release space for expected academic expansion.

By far our most critical needs at this time are laboratory equipment and a computer. Both regional and national accrediting teams, upon inspecting us, reported that we have too little equipment and that much of what we have needs replacing. Although we have been turning all funds we can into laboratory equipment, it will take at least a half million dollars to bring our laboratories up to reasonable standards.

Technical trends are forcing us into the field of computers. It has become necessary for us to teach programming and to prepare students to use computers in their work. To this end we need a good small computer designed to handle engineering problems. Such a computer has just been developed by IBM and can be purchased for less than \$75,000.00.



X. Difficulties and Accomplishments:

We still need additional teaching personnel. Under the present plan of completely integrating day and night schools, we have been unable to materially reduce overtime teaching in the night programs because of this lack. It will require five or six additional staff members to absorb the night school teaching load, and funds have not been available to hire them.

Southern Tech graduates are being accepted with increasing enthusiasm by industry. Although opportunities for our graduates have always been good, the increase in demand for them this year is marked. More important, however, is the fact that the overwhelming majority of the men are being placed in industry in Georgia.

This past year has been a busy one for the faculty and staff of Southern Tech, and we are indeed grateful for the understanding and assistance offered us by the officials of Georgia Tech and the Board of Regents. A continuation of this kind of cooperation should enable us to enhance the national reputation which the fine faculty at Southern Tech has already earned for the school.

Sincerely,

H. L. McClure  
Director

July 1, 1967

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Twentieth Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1966-1967.

I. Faculty:

1. Additions, Replacements, and Resignations in Faculty and Staff:

Additions:

Bates, Louis T.	Instructor, English Department
Bleakley, Arthur, Jr.	Instructor, English Department
Harris, Edward Bledsoe, Jr.	Instructor, Mathematics
Reed, E. Merrill	Assistant Professor, Physics
Pattillo, John W.	Librarian
Conner, Daniel B.	Senior Accountant
Florian, Francis Allen	Dormitory Supervisor and Assistant to the Dean of Students

Retirements:

Workman, James H.	Associate Professor, Mathematics
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Resignations:

Hobley, Cleon M.	Instructor, Physics
Newton, Jack W.	Special Lecturer, Mathematics
Reed, E. Merrill	Assistant Professor, Physics
Defore, Jesse J.	Associate Professor and Department Head, Chemistry and Physics
Parker, Julia H.	Librarian

Raise in Rank of Faculty Members:

Schenk, Harry M.	Assistant to Associate, and Head of Chemistry and Physics Department
Eller, Herbert	Assistant to Associate, Industrial Department
Hunkin, Alfred J.	Instructor to Assistant, English Department
Carmichael, Thomas H.	Instructor to Assistant, Industrial Department
Heard, B. Frank	Instructor to Assistant, Industrial Department
Dunlap, Donald S.	Instructor to Assistant, Mathematics Department
Armstrong, Lee H.	Instructor to Assistant, Mathematics Department
Burton, Walter E., Jr.	Instructor to Assistant, Electrical Department
Goodwin, James P., Jr.	Special Lecturer to Assistant, Electrical Department

Staff Members:

Additions:

Murphy, Eleanor C.	Clerk, Registrar's Office
Spinks, Carol P.	Clerk, Registrar's Office
Walton, Patricia (Part-time)	Secretary, Southern Railway Program

Resignations:

Furline, Andrea	Clerk, Registrar's Office
Cash, Adele	Secretary, Industrial Department

2. On Leave:

Smith, Harry V., Jr.	Graduate Work, Florida State University (1967-68)
Youngblood, Ralph P.	Graduate Work, University of Tennessee (1967-68)
Eller, Herbert	Serving as coordinator of the activi- ties of American consultants and Indian educators in conducting and augmenting summer institute for Indian polytechnic teachers - New Delhi (1967-68)
Edwards, Robert N.	Sick Leave (1967-68)

3. Doing Graduate Work While in Service:

Eller, Herbert  
Ellington, Jesse W.  
Franklin, K. E.  
Newman, W. S.  
Parlett, Lawrence L.  
Stone, Ernest R.

Robert C. Carter, Clifford W. Cowan, John Keown, and D. E. Summers took post-graduate courses during 1966-1967.

Degrees Received During the Year:

Goodwin, James P., Jr.	B.S., Oglethorpe Collage
Stone, Ernest R.	M.Ed., University of Georgia

Richard G. Denning received the Professional Engineer's license (Mechanical) in December, 1966.

Edgar Fowler and Ralph Youngblood are again participating in the summer Polytechnic Institute program in India. Herbert Eller will serve as coordinator of the activities of American consultants and Indian educators in conducting and augmenting the summer institute for Indian polytechnic teachers in New Delhi.

4. Research, Creative Work, Publications:

Jesse W. Ellington published without by-line in America's Textile Reporter three meeting reports of the Georgia and Alabama Textile Operating Executives.

C. R. Freeman completed the manuscript of a new text in metallurgy.

R. W. Hays again published a number of magazine articles. His book Principles of Technical Writing has been adopted by the United States Armed Forces Institute. For this publication, Mr. Hays received the second-place Arthur H. Williston Award for technical institute publication.

E. J. Muller published Architectural Drawing and Light Construction, Prentice-Hall, Inc.

W. S. Newman designed two residences.

C. R. Orvold is project director for the U. S. Department of Health, Education, and Welfare on the preparation of a curriculum guide for Architectural and Building Construction Technology. R. W. Hays, E. J. Muller, and W. W. Vaughn are collaborating with Mr. Orvold in the project.

Ernest R. Stone wrote for his master's thesis an analysis by covariance of the effects of a programmed unit of physics.

5. Average Number of Equivalent Full-time Teachers:

Regular Session	62.0
Summer Session	33.5

6. Faculty Salaries and Distribution by Rank:

	<u>No.</u>	<u>Average 9 Months Salary</u>
Professor	7	\$10,286.
Associate Professor	17	\$ 8,824.
Assistant Professor	19	\$ 7,679.
Instructor & Special Lecturer	15	\$ 7,327.
All Ranks	58	\$ 8,238.

7. Average number of students per instructor	17.4
Average instructor teaching hours per week	16.9
Average number of student credit hours per instructor	289.4
Average class size (Labs not included)	23.0

8. The academic credentials of the Southern Tech faculty continue to improve. One faculty member received his baccalaureate degree this year and already has his graduate program approved for next year. This accomplishment leaves only one faculty member without a baccalaureate degree.

One faculty member received his master's degree during the year. Two faculty members are on leaves of absence to complete graduate work, and ten others are doing graduate work in service. There are now thirty-five faculty members with master's degrees or better and twenty-seven with bachelor's degrees.

II. Students and Enrollment:

1. Average enrollment for regular session	1081
Cumulative enrollment for regular session	1431
Average and cumulative for summer quarter 1966	536
Average enrollment for entire year	945
Total cumulative enrollment	1640

2. Student Quarter Hours by Quarters:

Summer, 1966	7,666
Fall, 1966	21,181
Winter, 1967	17,036
Spring, 1967	<u>15,639</u>
Total	61,522

3. Quarter	Veterans		Non-Veterans		Totals		Sum Total
	M	W	M	W	M	W	
Summer, 1966	60	0	474	2	534	2	536
Fall, 1966	91	0	1149	4	1240	4	1244
Winter, 1967	90	0	936	4	1026	4	1030
Spring, 1967	86	0	880	4	966	4	970

Nine of the 1640 students on the 1966-67 cumulative roll were women. Two hundred and one (12.2%) of the 1640 were non-residents of Georgia. One hundred and six of the 1640 (6.4%) were veterans or sons of deceased or disabled veterans.

#### Breakdown of Student Enrollment by Classes, 1966-67

##### Summer Quarter, 1966

<u>Freshmen</u>	<u>Seniors</u>	<u>Specials</u>	<u>Total</u>
291	242	3	536

##### Academic Year, 1966-67

Fall	853	381	10	1244
Winter	620	391	19	1030
Spring	538	417	15	970

#### 4. Breakdown of Cumulative Roll by Degree-Granting Departments:

Air Conditioning Engineering Technology	55
Architectural Engineering Technology	291
Civil Engineering Technology (Both Options)	230
Electrical Engineering Technology	386
Gas Engineering Technology	24
Industrial Engineering Technology	136
Industrial Engineering Technology (Management Option)	151
Mechanical Engineering Technology	290
Textile Engineering Technology	39
Special Students	<u>38</u>
Total	1640

#### 5. Classes at Undergraduate Level:

<u>Class Size</u>	<u>5-9</u>	<u>10-19</u>	<u>20-29</u>	<u>30-39</u>	<u>40-49</u>	<u>Over 50</u>
Summer Quarter	2	97	40	10	0	0
Regular Quarters	<u>27</u>	<u>430</u>	<u>331</u>	<u>146</u>	<u>15</u>	<u>14</u>
Total	29	527	371	156	15	14
% of Total Classes	2.6	47.5	33.3	14.0	1.3	1.3

6. Graduates and Degrees Awarded in 1966-67:

	<u>Graduates</u>	<u>Degrees</u>
Summer, 1966	70	73
Fall, 1966	56	62
Winter, 1967	71	77
Spring, 1967	<u>116*</u>	<u>128*</u>
	<u>70</u> + <u>243</u>	<u>73</u> + <u>267</u>
<b>Sum Totals</b>	<b>313</b>	<b>340</b>

\*These totals will hold true only if all 115 of the Spring 1967 Quarter candidates complete all requirements and graduate.

7. Number of Students in Extension Classes:

Contract Training: Training schools conducted for industry on the Southern Tech campus.

<u>Company</u>	<u>Type of School</u>	<u>Number of Schools</u>	<u>Students</u>
Southern Railway Company	Diesel Electric Maintenance	1 Summer & Fall, 1966	12
Southern Railway Company	Diesel Mechanics	2 Summer & Fall, 1966	18 18
Southern Railway Company	Railroad Car Inspection & Repair	3 Summer & Fall, 1966, & Spring, 1967	25 25
Southern Railway Company	Management Training	1 Summer, 1966	20

8. Quality of Scholastic Work in 1966-67:

Evidence indicates that the quality of scholastic work at Southern Technical Institute remained static throughout 1966-67. The average SAT scores for fall 1966 freshmen dropped from the 404 Verbal of 1965 to 395, and the 474 Math of 1965 decreased to 462. The drop, however, was not significant. Fewer students were placed on probation and fewer were dropped for scholastic deficiencies in 1966-67. Cumulative total enrollment also dropped though. The average point average of 1966-67 graduates was a fraction larger than that of 1965-66 graduates; also more 1966-67 graduates achieved the Dean's List. A few more 1966-67 graduates won honors. Furthermore, a slightly higher percent of those on the cumulative roll graduated in 1966-67 as compared with those in 1965-66 (16.5% to 19%). The slight improvement in scholastic achievement in 1966-67, however, is too small to indicate statistically that the quality of entering students is improving.

Average SAT Scores of Fall Freshmen for Three Years

<u>1963-64</u>		<u>1965-66</u>		<u>1966-67</u>	
V	M	V	M	V	M
375	445	404	474	395	462

Dropped and Probationary Students  
(Summer and Fall, 1966, Winter, 1967)

	<u>1964-65</u>	<u>1965-66</u>	<u>1966-67</u>
Dropped	118	185	139
Probationary	182	243	191

Graduation Point Averages

2.40	2.31	2.36
------	------	------

Number of Graduates on Dean's List

31	30	45
----	----	----

Winners of Honors (Graduates)

6.6%	5.5%	6.3%
------	------	------

Percent of Those on Cumulative Roll Who Graduated

17.3%	16.5%	19.0%
-------	-------	-------

9. Extracurricular Activities and Student Conduct:

Departmental clubs and campus-wide clubs functioned well. Each departmental club had a social meeting once each quarter. There were seven campus-wide dances, and the Second Annual Bathtub Race was held.

Adviser A. J. Hunkin again supervised the student publications: the newspaper, the Engineering Technician; and the yearbook, the Technician's Log. A larger, better-equipped room in the classroom building was assigned to the publications staffs, and both publications were of superior quality. The student radio station again operated under Mr. Hunkin's direction.

The new gymnasium (multi-purpose building), completed and opened in October, 1966, has been in almost constant use by approximately 150 students per day.

Coach Harry S. Lockhart supervised both intercollegiate and intramural athletics. Dormitory Manager F. A. Florian assisted when possible. G. M. Lawson coached the golf team and L. L. Parlett coached the tennis team.



The varsity basketball team played a 30-game schedule. Student attendance at home games increased considerably because the new gymnasium is easily accessible. Steve Hudson led the state in scoring, averaging 26 points per game, and was named to the Junior College All-American Team.

The varsity baseball team played a 32-game schedule, including a trip to Florida during the spring holidays. Gerald Chapman, Dave English, and George Bradfield were named to the All-State Team.

The tennis team and the golf team played several matches and participated in the state tournament in Statesboro.

Nine intramural softball teams participated in the softball league during the summer quarter. Thirty-six league games and an all-star game were played. The faculty team won the championship and defeated the all-stars.

Intramural basketball was put back into the program with the addition of the new gymnasium. Eight teams played a round-robin schedule of 28 games and an all-star game. The faculty team also won the championship and defeated the all-stars.

Dean of Students C. V. Maddox reports that student conduct was good, but six students were dismissed for disciplinary reasons.

#### 10. Students Leaving for Financial Reasons; Demand for Scholarships and Jobs:

Again it is impossible to determine the number of students leaving college for financial reasons, since most students who withdraw do so between quarters without giving any explanation.

A total of 164 people applied for financial aid, and a total amount of \$44,595.49 in scholarships and loans was awarded to 87 students. Eleven students were paid \$3,879.73 on the federally sponsored College Work-Study Program.

#### 11. Placement Department:

Campus interviews were numerous for the 1966-67 graduates. Many companies are seeking technically trained graduates, and the available number is limited because the majority of them are facing their military obligation upon graduation. Because of the great need for this type of graduate, more industries will now consider candidates who are eligible for the "draft". Those who take advantage of the many campus interviews will have 5-10 job offers if they are average or better students.

The graduates of 1966-67 have been receiving starting salaries in a range of \$500-\$700 per month. The March 1967 graduates, all departments, received an average starting salary of \$573.65 per month. This year has shown a steady increase in starting salaries by each quarter's reports.

The placement service is quite limited by inadequate facilities as mentioned in last year's annual report. We hope to have access to additional space in the new library for 1967-68. The number of visiting industries on campus has been limited to three or four per day because of lack of space.

The two-year Salary Survey of the alumni will be completed and published during the summer. The data will be available to high schools, industry, students, and parents. Usually this study is published in the Technical Education News.

The Co-op Program continues to offer opportunities in all fields of study at Southern Tech. During the Winter Quarter 1967, representatives from the State Highway Department and Southern Tech visited high schools throughout the state to acquaint them with the opportunities in the co-op program at Georgia Tech and Southern Tech. Other companies have expressed a desire to participate in a similar visitation program; this could enhance our enrollment of co-op students considerably.

Mrs. Simmons, Assistant to the Placement Director, in addition to her regular work, has taken the responsibility of publishing the alumni newspaper this year.

## 12. Counseling:

During 1966-67 Counselor W. J. Glenn interviewed 545 persons interested in attending Southern Tech. Most of the interviews concerned questions about Southern Tech in general and registration for the SAT and the achievement tests.

Approximately 230 students plus a few parents and instructors have talked to the counselor about personal and academic problems. An appreciably larger number of persons (161) saw the counselor about financial problems than in the previous year. Eighty-four of these were awarded scholarships or loans, and eleven were given jobs under the federal Work-Study Program.

Only 21 persons were given the individual test battery, but the counselor did other testing for groups not directly connected with the institution:

1. The Engineering Aptitude Test for 28 senior high school students sponsored by the Junior Engineering Technical Society.
2. The Southern Bell Telephone and Telegraph Company Pre-Employment Test for 12 Southern Tech graduating seniors.
3. The College Entrance Examination Board SAT and Achievement Tests in English Composition and Intermediate Math for 122 Southern Tech applicants.
4. The General Telephone Company of Kentucky Pre-Employment Test for four Southern Tech graduating seniors.

The counselor again coordinated the College Day Programs and represented Southern Tech at eight programs in the fall quarter.

He personally made 82 separate calls on high school counselors and called on eight Cobb County junior high schools. He spoke to seniors at six high schools and to the ninth grade at Austell Junior High School.

The counselor's office prepared and mailed the quarterly Counselors' Newsletter and sent to the counselors catalogues, information on the new Apparel Manufacturing Technology Option, and the special issue of the ASEE Journal dealing with engineering technology.

The counselor's office again worked closely with the international students. There were 35 foreign students from 21 countries. A list of their names, countries, local addresses, and telephone numbers was kept on a quarter-to-quarter basis. Copies were furnished to civic clubs, churches, and individuals who wished to invite them to parties, picnics, religious services, and for visits in private homes.

The counselor's office assisted directly in planning a reception for the foreign students by the director and his wife in their home, a picnic sponsored by the Marietta Pilot Club, a family supper by the Marietta Junior Woman's Club, and a Rotary Club luncheon. Foreign students were furnished as speakers for several civic clubs and many private invitations were extended and coordinated by the counselor's office.

### III. Significant Changes or Improvements in Existing Curricula:

The Civil Engineering Technology Department purchased a geodimeter for use in the Advanced Surveying class.

The Electrical Engineering Technology Department completed the design and development of the Electronic Computer and Control Option. Two electronic laboratories were completed this year. One of these has a complete IBM 1401 Computer System. A rear-view projection system for use in the academic program was developed by the department.

The Mechanical Engineering Technology Department added some sheet metal to the metal fabrication lab and discontinued forging. The metal-joining lab was moved to Building 6-C. A new Cincinnati milling machine was purchased for the metal-cutting lab.

The Physics Department has changed from strictly recitation format to demonstration-lectures in large groups, which break up into smaller sections for purposes of recitation and problem solving with various instructors.

The department agrees after three quarters that this approach is better than the old one, but feels that it will take several more years to acquire the specialized equipment required to demonstrate the principles involved.

The department is trying to develop physics experiments using simple equipment so that the student's work in the laboratory will be more meaningful to him. Again it is felt that it will take several years to acquire the necessary equipment for the laboratories.

The Textile Engineering Technology Department introduced the Apparel Manufacturing Engineering Technology Option, which will begin in September, 1967, and added a laboratory session to Dyeing and Finishing (T.E.T. 162).

#### IV. Library:

Some aspects of the operation of the library can be covered only for the period January through June, 1967, since the present librarian did not assume his duties until January, 1967. Since January a number of changes have been made toward improving library service, and preparations have been made for moving into the new library building at the end of the summer quarter.

1. Number of volumes added during year 1,511  
Total number of volumes at end of year 9,947
2. The library, although greatly improved, still does not meet Southern Association standards, but should be much closer to standard with the new building. The number of volumes held will then be the major hurdle to overcome.
3. Expenditures for books and other materials \$6,523.05
4. Expenditures for personal services \$13,746.78

#### V. Research:

Research was described under Faculty Information.

#### VI. Public Services, Publicity, Short Courses, Advisory Services:

Faculty and administration were active during 1966-67 in providing public services, participating in civic and professional organizations, and bringing favorable attention to the institution.

F. A. Florian, G. M. Lawson, and H. S. Lockhart represented Southern Tech at the annual meeting of the Georgia Association of Junior Colleges at Columbus College, Columbus, Georgia, in October.

R. G. Denning, C. T. Holladay, Director McClure, Jacob Remeta, P. V. Smith, E. R. Stone, and L. H. Taylor attended the Southeastern Section meeting of the ASEE at Huntsville, Alabama, in April. Mr. Stone presided over the Technical Institute Division organizational session and was elected interim chairman. P. V. Smith was appointed interim secretary. Mr. Holladay spoke to the Civil Engineering group on the civil engineering technician.

T. H. Carmichael, R. C. Carter, R. G. Denning, J. W. Ellington, J. P. Goodwin, R. W. Hays, A. J. Hunkin, G. M. Lawson, Director McClure, R. L. Myatt, Jacob Remeta, Paul V. Smith, E. R. Stone, D. E. Summers, and Y. T. Williams attended the annual ASEE convention at Michigan State University in June, 1967. Mr. Ellington also attended the American Apparel Manufacturers' Association convention in Dallas.

J. P. Goodwin coordinated seven contract training courses on the campus for Southern Railway Systems. Eighteen faculty members taught in one or more of these courses.

G. L. Crawford and Y. T. Williams represented Southern Tech at a consortium meeting connected with the electronic computer and control option. The meeting was held in November, 1966, at Dunwoody Institute in Minneapolis. Southern Tech was one of six colleges selected to receive funds from the Department of Health, Education, and Welfare and a complete IBM 1401 Computer system for new programs in computer technology.

The College Day program was coordinated by Counselor W. J. Glenn and used the following faculty members: T. W. Anderson, L. Y. Bryant, G. L. Carroll, R. C. Carter, H. S. Lockhart, H. L. McClure, C. V. Maddox, and P. V. Smith.

G. M. Lawson, P. V. Smith, and Engineering Extension Division Director L. V. Johnson accompanied State Highway Department engineers on high school visitation trips during February, 1967, to recruit students for the CET Co-op Program.

L. T. Bates made a number of speeches to civic clubs and other organizations and coordinated Southern Tech news broadcasts on Marietta Radio Station WBIE.

George W. Bruce was volunteer director for the STI Baptist Student Union.

Registrar L. Y. Bryant represented Southern Tech at the meetings of the Georgia Association of Collegiate Registrars and Admissions Officers in Atlanta, and the Southern Association of Colleges and Schools at Miami Beach, Florida, in November, 1966. He also served on the TIAC (ASEE) Relations with High Schools Committee and prepared for the chairman an evaluation of Southern Tech's relations with high schools.

W. E. Burton, Jr., attended a regional meeting of the American Society of Certified Engineering Technicians and was the Southern Tech representative to exchange technical knowledge with other schools participating in the new computer program.

G. L. Carroll served on the TIAC (ASEE) Membership Committee for the Southeastern Section. He spoke to the North DeKalb Kiwanis Club in April, 1967.

R. C. Carter was faculty representative for the Southern Tech branch of IEEE.

Clifford W. Cowan participated in the Georgia Society of Professional Engineers and the National Society of Professional Engineers.

L. G. Cuba was third vice president of the East Marietta Lions Club.

J. W. Ellington advised the Weyerhaeuser Lumber Company on market research for a textile shuttle under development.

W. J. Glenn attended three dinner meetings of the North Georgia Personnel and Guidance Association.

W. M. Gordon served on an accreditation inspection of the Fayetteville, North Carolina, Technical Institute in February, 1967.

R. W. Hays directed the publicity and public relations activities during the 1966-67 term. He presented a paper, "The Goals of the Communications Art in the Education of Engineering Technologists" at the ASEE Convention in Pullman, Washington. Mr. Hays was the Convocation speaker at Young Harris College in November, 1966. He also spoke at the Central Florida Chapter of the Society of Technical Writers and Publishers at Melbourne, Florida, in September, 1966, and at the Huntsville STWP at the Redstone Arsenal Officers Club in December, 1966. In April, 1967, he conducted a two-day seminar at the University of Wisconsin. He also served on accreditation inspection committees for the Southern Association of Colleges and Schools and for the ECPD.

C. T. Holladay served as co-chairman of the Traffic Committee of the Sandy Springs Improvement Association and conducted one workshop for the association. He spoke on Civil Curriculum Development at the American Association of Junior Colleges Consultants Workshop in Atlanta in May, 1967, and conducted a tour of the Southern Tech Civil Engineering Technology Department for about forty people from the Workshop. Mr. Holladay also spoke on Surveying Education at a short course on Surveying at Georgia Tech.

John L. Keown attended the Association of Computing Machinery meeting at Huntsville, Alabama.

Director McClure served as vice chairman of Region I of the ECPD Engineering Technology Committee. He participated in the accreditation inspections of Waterbury State Technical Institute, Norwich, Connecticut, in May, 1967. In January, 1967, he and Col. Freeman of the Georgia Tech Air Force R.O.T.C. made a one-day tour of the facilities at Cape Kennedy. In February he accompanied Dr. Arthur G. Hansen, dean of Engineering at Georgia Tech, to a College-Industry Conference at Purdue University.

In April, 1967, R. L. Myatt served on an ECPD accreditation inspection committee at the technical institute of Oklahoma State University and attended the convention of the American Concrete Institute at Montreal, Canada.

C. M. Mobley, Jr., did consulting work for industry in graphical techniques.

W. S. Newman, III, prepared an outline for and will conduct a summer institute for "planning aides." Mr. Newman is the Southern Tech Activities Coordinator for the ASEE.

Librarian John W. Pattillo participates in the American Library Association, the Southeastern Library Association, the Georgia Library Association, the Atlanta Civil War Round Table, and the Atlanta Historical Society. He served

on an inspection committee of the Southern Association of Colleges and Schools at the James Connally Technical Institute, Waco, Texas, and is serving on a curriculum committee for Architectural and Building Construction Technology for the U.S. Department of Health, Education, and Welfare.

Jacob Remeta spoke at the monthly meeting of the Printing Industry of Atlanta in January, 1967, and addressed the Smyrna Rotary Club in April, 1967.

W. C. Royer is a member of the Board of Directors of the Cobb County Unit of the American Cancer Society, vice president of the Marietta Men's Garden Club, president of the Southern Tech Boosters Club and member of the Reserve Officers Association, the Retired Officers Association and the National Society of Mathematics Teachers.

H. M. Schenk attended the meeting of the Southeastern Section of the American Physical Society in Nashville, Tennessee, in December, 1966. William Hurst accompanied Mr. Schenk to this meeting.

P. V. Smith is chairman of the Board of Deacons of the Covenant Presbyterian Church of Marietta, second vice president of the Piedmont Lions Club of Marietta, executive secretary of the Southeastern Technical Institute Division of ASEE, and member of the Cooperative Education Division of ASEE. Mr. Smith, C. R. Freeman, R. L. Myatt, and Y. T. Williams attended an Open House at Rust Engineering Company at Birmingham in August, 1966. During the year Mr. Smith attended meetings of industrial firms at Brunswick and Savannah, Georgia, Raleigh, North Carolina, and Lexington, Kentucky. He also attended the Cooperative Education Conference at Callaway Gardens in May, 1967.

E. R. Stone participates in the American Physics Society and the Sigma Pi Sigma Physics Honorary Society. He is chairman of a committee and director of Metro Kiwanis of Marietta and is vice president of the Community Recreational Development Corporation.

D. E. Summers is a member of the ASEE committee on Relations with Government, the Marietta Board of Electrical Examiners, and the Association of Computer Manufacturers and is clerk of the Marietta Civil Service Board.

L. H. Taylor participates in the American Society of Heating, Refrigeration, and Air Conditioning Engineers, the Georgia Society of Professional Engineers, and the National Society of Professional Engineers.

W. L. Thomas and a group of GET students operated a Southern Tech booth at the Trade Show of the National LP-Gas Association at Chicago in April.

Y. T. Williams served on the ECPD committee for evaluating technical institute curricula and in April, 1967, served on the visitation committee of the Southern Association of Colleges and Schools at the Norfolk Division of Virginia State College.

**VII. New Construction:**

Our Physical Education Multi-purpose Building was completed in mid-September and was used during the fall quarter by Southern Tech for intramural sports and by Kennesaw Junior College for physical education courses. The road to this new building was surfaced by the County in December and a 200-by-200-foot parking lot was completed this spring. Lighting for the street and the parking lot is scheduled for completion this summer, as are two tennis courts adjacent to the building.

The library has been beset by many delays during the last year, but it is now seventy percent complete and should be accepted in the fall.

**III. Gifts:**

The Arrow Company	\$1,000.00
Robert K. Thrower, Inc.	250.00
Southern Railway	5,000.00

John I. Alford added to the Alford Student Loan Fund and Mrs. Sybil Lambert added to the Clark Lambert Scholarship Fund.

**IX. Appraisal of Progress:**

The quality of our faculty continues to improve.

This year we have installed a complete IBM 1401 computer furnished free of charge by IBM to aid the development of our Computer and Controls Option in Electrical Engineering Technology.

The trend toward baccalaureate programs in engineering technology has grown to ground swell nationally. Because of this acceleration toward four-year programs, the Southern Tech faculty developed such a program and has submitted it as a proposal to Georgia Tech. We firmly believe this to be the direction of our type of institution for the future, and we further believe that to procrastinate in following this movement would be a serious blunder on our part.

We have continued to teach a number of special classes for the Southern Railway System, the total number limited by our physical facilities and availability of faculty.

**X. Difficulties and Accomplishments:**

We are still in urgent need of two buildings--a Physical Plant Building and a Student Services Building. Our Physical Plant Department is still crowded into one end of our Mechanical Technology Building in space vitally needed by the Mechanical Department. We still have no space on campus for student lounges, meaning that in bad weather commuting students have no place to go between classes. The college Book Store and the Post Office have less than half the space they need.



We badly needed a ball field next to our multi-purpose building, but we have no funds to complete it.

Our most critical needs continue to be equipment for our laboratories, books for our library, and a computer. We need approximately a half-million dollars to bring our laboratories up to national standards and at least \$100,000.00 for books. Our alumni have raised approximately \$10,000.00 for the library and contributions from industrial friends have amounted to several thousand more; however, this amount is still far short of our immediate needs.

Although we have been furnished an IBM 1401 computer, this equipment can be used only for the one option we are developing. Every department on the Southern Tech campus is teaching computer usage in some form, and most of them require a programming course offered by the Math Department. As computers become a more and more integral part of technical education, to train men to work with a computer becomes more important. To do this without the ready availability of a computer is extremely difficult.

Our working relationship with Georgia Tech has become noticeably closer during the past year, and indications are that we will continue to move closer together in the future. This can only lead to better liaison, better understanding, and more effective cooperation to the benefit of both institutions. For this progress we owe a profound debt of gratitude to the Administration of Georgia Tech.

The faculty of Southern Tech are appreciative that they once again have been offered football tickets, and they feel that this represents concrete evidence that we are accepted as a member of the family.

Sincerely,

H. L. McClure  
Director

June 24, 1968

Mr. L. V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Twenty-first Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1967-1968.

Faculty

1. Number of Faculty 1966-67-----61

(a) Additions

(1) New appointments

Dr. Maria T. Bolet, Assistant Professor, Chemistry & Physics  
Frank C. Taylor, Jr., Instructor, Chemistry & Physics  
Clarence M. Head, Instructor, Mathematics  
Walter G. McQueen, Instructor, Mathematics

(2) Returning from leaves of absence-----0

(3) Transfer from non-teaching positions-----0

(4) Total additions-----4

(b) Deletions

(1) Resignations

R. N. Edwards, Special Lecturer, Mathematics  
Walter G. McQueen, Instructor, Mathematics  
Lee H. Armstrong, Assistant Professor, Mathematics

(2) Termination by Institution

H. V. Smith, Associate Professor and Department Head, Mathematics,  
did not return from leave of absence.  
T. M. Sullivan, Associate Professor, Air Conditioning Technology,  
did not return from leave of absence.

(3) Retirement

G. L. Crawford, Professor and Dean of Technical Division

(4) Deaths-----0

(5) Leaves of Absence

Herbert Eller, Associate Professor, Industrial Engineering Technology Department. Coordinator of American Consultants and Indian Educators, New Delhi, India, September 1967-September 1968

Ralph P. Youngblood, Associate Professor, Mathematics; Advanced study at the University of Tennessee. September 1967-September 1968

Clifford W. Cowan, Assistant Professor, Electrical Engineering Technology Department. Consultant on National Science Foundation's ADI Science Education Improvement Programs in India--May 20, 1968-June 7, 1968

(b) Deletions -- continued

(6) Transfers to non-teaching positions -----0

(7) Total deletions -----9

(c) Number of faculty 1967-68 -----58

2. See (b) (5) above

3. Doing Graduate Work "in service":

James P. Goodwin	Georgia Tech
David Summers	Georgia Tech
John Keown	Georgia Tech
Clifford Cowan	Georgia Tech
W. E. Burton, Jr.	Georgia Tech
George Bruce	Georgia Tech
Jesse Ellington	Georgia Tech
W. S. Newman, III	Georgia Tech
K. E. Franklin	Georgia State
J. L. Keen	Georgia State

C. R. Freeman attended a programming school for the tape control machine April 30-May 3, 1968 at the Cincinnati Lathe and Tool Company, Cincinnati, Ohio.

W. E. Burton attended a computer training school for one week at Fabri-Tek, Hopkins, Minnesota, summer, 1967.

4. None

5. Average Number of Equivalent Full-time Teachers:

Regular Sessions	61.4
Summer Session	27.7

Use of Teaching assistants was negligible.

	<u>Rank</u>	<u>Number</u>	<u>Average Academic Year Salary</u>
6.	Professor	9	11,200
	Associate Professor	17	9,688
	Assistant Professor	25	8,244
	Instructor	<u>7*</u>	<u>7,842*</u>
	All Ranks	58	9,077

\* Includes one special lecturer

7. Average Quarter Credit Hour load per instructor = 13.3\*  
\*for academic year. The same figure for the summer quarter is 12.2

8. Research and Creative Projects

John L. Boshier contributed to the preparation of Technical Report No. GT-NE-7, Nuclear Engineering Series, Safety Analysis Report for the 5 Mw Georgia Tech Research Reactor, published by the Engineering Experiment Station of Georgia Tech.

G. L. Crawford, R. G. Denning, K. E. Franklin, W. Hurst, G. M. Lawson, R. L. Myatt, D. E. Summers, L. H. Taylor, and W. W. Vaughn collaborated in preparing sections of the Georgia State Highway Department's Engineer in Training Examination Preparation Course.

C. R. Orvold was project director for preparation of HEM's Curriculum Guide for Architectural and Building Construction Technology. R. W. Hays, R. G. Denning, E. J. Muller, R. L. Myatt, John Pattillo, Jacob Remeta, H. M. Schenk, and W. W. Vaughn collaborated in the project.

G. L. Carroll was a member of an A.S.E.E. committee to prepare certification examinations for junior engineering technicians graduating from non-accredited technical schools. R. W. Hays prepared the communications section; C. T. Holladay and R. L. Myatt, the civil engineering technology section; G. M. Lawson, the industrial engineering technology section; and C. R. Orvold, the architectural engineering technology section.

E. J. Muller and George Melvin are preparing a textbook entitled Reading Architectural Working Drawings for publication by Prentice-Hall. R. G. Denning is preparing the Mathematics section of the book.

R. W. Hays collaborated <sup>with</sup> Dr. Raymond A. Cook in writing an essay, "Modernity and Scholarship in Chaucer's Treatise on the Astrolabe," which was published in the September, 1967, issue of School of Arts and Sciences Research Papers, Georgia State College.

R. W. Hays prepared for the United States Armed Forces Institute, Study Guide A820, Technical Writing, and the solutions manual to the written assignments. Mr. Hays is also preparing a textbook on public speaking.

Jesse W. Ellington published two articles without bylines in America's Textile Reporter and wrote and advised the illustrating of the entire textile section of Career Opportunities for Technicians, which will appear in Volume 1 of a multi-volume set being published by J. G. Ferguson Company.

9. Appraisal of Work of Teaching Staff

The Southern Tech faculty continues to excel in the three ways most important to an educational institution - namely, fine teaching in the classroom, further study in their area of specialization, and doing jobs outside the classroom in support of the college.

Please return one copy to:

Dr. S. Downs

University System of Georgia

Washington Street, S. W.

Atlanta, Georgia 30334

Institution

Type of Enrollment: Regular  
OR  
In-service1967-68 ANNUAL ENROLLMENT REPORTThird Quarter 1967

## Enrollment by Session and Cumulative Enrollment

Enrollment First Session	_____
Enrollment Second Session	_____
Cumulative Enrollment	<u>422</u>

## I. CUMULATIVE Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	<u>209</u>	Residents of Georgia	<u>381</u>
Sophomore	<u>198</u>	Residents of Other States	<u>32</u>
Junior	_____	Residents of Foreign Countries	<u>9</u>
Senior	_____	Total	<u>422</u>
Graduate	_____	Men	<u>416</u>
Professional	_____	Women	<u>6</u>
Other Classification	<u>15</u>	Total	<u>422</u>
Total	<u>422</u>	Veterans	<u>60</u>
		Non-veterans	<u>362</u>
		Total	<u>422</u>

## II. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>5562</u>
Upper Division (Junior and Senior)	_____
Graduate	_____
Professional	_____
Total	<u>5562</u>

\_\_\_\_\_  
Signature

NOTE: Quarter Credit Hours for Army, Air Force, or Naval ROTC courses will not be reported except by the Fort Valley State College. Equivalent credit for basic physical education courses will be reported even though the institution does not record academic credit for these courses. Equivalent credit will also be reported for remedial and developmental courses offered regularly enrolled students.

Professional students are those enrolled in Law, Pharmacy, Veterinary Medicine, and Medicine.

Institution

Type of Enrollment: Regular  
OR  
In-service

Academic Year 1967-68

## I. Total Academic Year Enrollment

Enrollment - Fall Quarter	<u>1215</u>
Enrollment - Winter Quarter	<u>1049</u>
Enrollment - Spring Quarter	<u>1101</u>
Average Enrollment	<u>1121</u>
Cumulative Enrollment	<u>1512</u>

## II. CUMULATIVE Academic Year Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	<u>922</u>	Residents of Georgia	<u>1379</u>
Sophomore	<u>575</u>	Residents of Other States	<u>111</u>
Junior	<u>          </u>	Residents of Foreign Countries	<u>22</u>
Senior	<u>          </u>	Total	<u>1512</u>
Graduate	<u>          </u>	Men	<u>1502</u>
Professional	<u>          </u>	Women	<u>10</u>
Other Classification	<u>15</u>	Total	<u>1512</u>
Total	<u>1512</u>	Veterans	<u>135</u>
		Non-veterans	<u>1377</u>
		Total	<u>1512</u>

## III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>56,426</u>
Upper Division (Junior and Senior)	<u>          </u>
Graduate	<u>          </u>
Professional	<u>          </u>
Total	<u>56,426</u>

\_\_\_\_\_  
Signature

NOTE: Quarter Credit Hours for Army, Air Force, or Naval ROTC courses will not be reported except by the Fort Valley State College. Equivalent credit for basic physical education courses will be reported even though the institution does not record academic credit for these courses. Equivalent credit will also be reported for remedial and developmental courses offered regularly enrolled students.

Professional students are those enrolled in Law, Pharmacy, Veterinary Medicine, and Medicine.

Our faculty is not only doing a superlative job in the classroom but a number of them are continuously involved in developing more effective teaching techniques and better utilization of teaching aids.

We have nine members of our faculty pursuing graduate work which in service. Two others lack only their thesis and one is on study leave for the second year.

The faculty, to a person, worked as necessary to develop the many options on our proposed four curricula, in developing the program for our Open House, and in directing extra-curricula/student activities. In short the overall support and dedication of our faculty tells why Southern enjoys the national reputation that it has.

Students

1. Student enrollment form attached

<u>Class Size</u>	<u>Regular Sessions</u>	<u>Summer Session</u>
Under 10	35*	5
10-20	414	104
21-30	362	16
31-40	96	1
Over 40	38	0
Total Classes	945	126

	<u>Regular Sessions</u>	<u>Summer Sessions</u>
Average Class Size	23.4	16.3
Average Lab Size	18.8	13.7
Average Class & Lab Size	21.7	15.5

\* Ten of the small sections were for the Gas Engineering Technology curriculum which is being "phased out". Eight of these sections represent the pilot program in our new computer option and the cost of teaching time was borne by the Department of Health, Education, and Welfare.

3. Graduates and Degrees Awarded in 1967-68

<u>Quarter</u>	<u>Graduates</u>	<u>Degrees</u>
Summer, 1967	30	30
Fall, 1967	70	70
Winter, 1968	56	58
Spring, 1968	116	127
	30	242 = 272
		30
		255 = 285

Degrees by Majors Awarded in 1967-68

A.S. in Building Construction Technology-----	6
A.E. in Air Conditioning Technology-----	12
A.E. in Architectural Technology-----	37

A.S. in Civil Technology-----	13
A.E. in Civil Technology (Str. Matrls & Design)-----	13
A.E. in Civil Technology (Survey & Constr.)-----	36
A.E. in Electrical Technology (Electronics)-----	32
A.E. in Electrical Technology (Computer & Control)-----	15
A.S. in Electrical Technology (Power Option)-----	1
A.E. in Gas Technology-----	5
A.E. in Industrial Technology-----	29
A.E. in Industrial Technology (Management)-----	34
A.E. in Mechanical Technology-----	58
A.E. in Textile Technology-----	6
	<u>285</u>

#### 4. Appraisal of Academic Work of Students, 1967-68

Although the improvement is slight, data exist (see the following figures and comparisons) to lead one to believe that the scholastic quality of Southern Tech's students in 1967-68 was a bit higher than that of previous years. True, the numbers dropped and placed on scholastic probation in 1967-68 were fewer than in 1966-67 - and this in spite of the fact that the 1967-78 cumulative total was larger by 29 students than the 1966-67 total. This fact is offset by the fact that fewer students graduated in 1967-68: 327 to 291.

The graduates of 1967-68 finished with a slightly higher grade point average than did the classes of 1966-67 and 1965-66. Also a few more members of the '68 class made the Dean's List, and a slightly higher per cent of the 1968 graduates finished with honors. A slight improvement in the SAT scores of 1967 entering freshmen is noticeable, and a higher per cent of the 1967-68 student body achieved the Dean's List than did classes in 1965-66 and 1966-67.

STI needs many more better-than-average students. Perhaps if the four-year plan for Southern Tech becomes a reality, more students with greater scholastic potential will be attracted by its programs leading to a baccalaureate degree.

#### Dropped and Probationary Students in Comparison (Summer and Fall, 1967, Winter, 1968)

	1965-66	1966-67	1967-68
Dropped	185	139	116
Probationary	243	191	173

#### Graduation Point Averages

2.31	2.36	2.42
------	------	------

#### Number of Graduates on Dean's List

30	45	49
----	----	----

#### Winners of Honors (Graduates)

5.5%	6.3%	8.6%
------	------	------



Per Cent of Those on Cumulative Roll Who Graduated

16.5%                      19.0%                      16.6%

Average SAT Scores of Fall Freshmen for Three Years

V	M	V	M	V	M
404	474	395	462	400	471

Total Number of Students (in %'s) Making Dean's List (3.00)

	<u>Summer</u>	<u>Fall</u>	<u>Winter</u>
1965-66	41 (7.6%)	113 (3.4%)	133 (11.2%)
1966-67	45 (8.3%)	103 (3.2%)	110 (10.6%)
1967-68	39 (9.2%)	160 (13.1%)	154 (14.6%)

5. Extracurricular activities and student conduct:

During the year three campus wide social functions were held. They were the Christmas Dance sponsored by the Textile Club (Sigma Delta Pi), the Valentine Day Dance sponsored by the Architectural Club (Alpha Beta Sigma), and the concert by Tommy James and The Shondells sponsored by the Student Council. There were banquets held by some of the student groups.

Student Publications The Engineering Technician and The Technician's Log functioned as usual and the radio station kept busy also.

The bathtub race on May 25 attracted such spectator interest, though the entries in the race were few. Indications are, however, that next year's race will be a spectacle that could easily attract national interest.

Student conduct during the year was hardly up to normal. Signs of unrest in the dormitories appeared periodically, and many adolescent pranks were evident. Signs of discontent about the Southern Tech dining hall showed up from time to time. However, this situation has been arising over the years from the beginning of Southern Tech.

Acts of thievery, especially on the parking lots, were reported. Students want to blame this on our poor security, or lack of security.

Speeding and "scratching off" seems to have been more prevalent than in previous years. Some students were restricted from driving on the campus and put on disciplinary probation. Others paid fines for speeding or other parking or traffic regulations.

Eight students were dropped for disciplinary reasons.

Coach Harry S. Lockhart again supervised intercollegiate and intramural athletics, assisted by F. A. Florian. L. L. Parlett coached the tennis team.

The gym has been in almost constant use again this year. Students are in the gym from 8:00 a.m. to 10:00 p.m. practically every day. Basketballs, weight lifting equipment and ping pong tables are available at all times.

Two new tennis courts were completed this year, and there has been a line of people waiting to use them most of the time. The varsity tennis team had a place to practice for the first time and won second place in the state tennis tournament. The tennis team was coached by Larry Parlett.

The basketball team played a 28 game schedule. George Lammont was named to the All-State and All-Region teams.

The baseball team played a 32 game schedule. The final record of 20 wins and 12 losses placed second in the Northern Division of the state, and George Bradfield, Ron Pace, Terry Lindsey and Frank Ward were named to the All-State team.

Intramural basketball was spread out over two quarters. This gave each team a chance to play more games in a round robin schedule. The "Unos," a team made up of independents, won the championship and defeated a team made up of all-star selections from the rest of the league.

#### 6. Students Leaving for Financial Reasons; Demand for Scholarships and Jobs.

It is impossible to estimate the number of students who left for financial reasons, but 213 talked with the counselor about financial problems.

A total of \$62,667 in scholarships and scholarship loans was set up for Southern Tech students this year. The following indicates the allocation of the funds.

<u>Type</u>	<u>Number of Students</u>	<u>Amount</u>
Regents State Scholarships	11	\$3,704.00
Civic-Club Scholarship Loans	5	600.00
National Defense Student Loans	18	8,885.00
Educational Opportunity Grants	16	6,101.00
Georgia Higher Education Assistant Corporation Loans	64	43,377.00
Totals	114	\$62,667.00

Also, Southern Tech's participation in the federally-sponsored College Work-Study Program included 24 students and \$8,501.63 spent on salaries during the school year, as compared with 11 students and \$3,879.63 last year.

#### 7. Placement and Co-op Departments

The year 1967-68 has been productive and confusing regarding Southern Tech graduates and the Placement Office. Various factors, especially the Selective Service System, has caused mixed reactions from students and industry.

Of the approximately 290 graduates who received their degrees this calendar year, we estimate about 60 percent (based on returns of the Fall 1967 and Winter 1968 graduates) will inform us of their status after graduation. From the data collected we realize that a greater percentage of the graduates are continuing their education at other colleges which offer four-year degrees; some have gone directly into some branch of the military service; and others have been able to get in the six-month reserve programs. This state of uncertainty of our military involvement has definitely affected the decisions of many of our graduates.

Industry also has been greatly affected by this uncertainty. There has been a greater need than ever before for qualified technically educated people and yet employers have had fewer to consider because the majority have to fulfill their military obligation upon graduation. Most industries have worked closely with the students who are faced with military obligations and have offered employment careers to them whenever possible. The larger the industry, the greater the possibility for the I-A student.

This condition of our nation and the graduate has given even greater stimulus to the "cooperative education" program. This shortage of technically trained manpower and graduates of other degree programs has caused industries to take a longer look at "co-op" programs. Since the program was already having stress and shortage of available students, this new emphasis has created a very competitive and lucrative program of recruitment for "co-op" students. In recent meetings of the ASEE, Cooperative Education Division, colleges and industries have been more active and concerned in this matter of recruitment, training, communication, and salaries of the cooperative program and student. Now more than ever before we have a greater number of available co-op positions than students available for filling them.

The placement office, Placement Director P. V. Smith, has enjoyed a very good year of career opportunities for the graduate. A great number of our old friends and many new friends from industry, government and business have visited our campus or contacted our office in regard to our service: recruitment of graduates, co-op students, alumni, and part-time employees. This condition has made a greater demand on our facilities and efforts and at the same time afforded the graduates many more better opportunities.

The STI National Alumni Association continues to work closely with us and they hope to become even more active in the affairs and objectives of Southern Tech by continued fund raising drives and in the area of student recruitment. Our office continues to be the service arm of this group by having Mrs. Simmons do their bookkeeping and banking, handle the Alumni Newsletter, write materials for the Alumni Times, etc. Also, alumni records of employment and alumni membership records are maintained in our office.

## 8. Counseling

During 1967-68 the counselor saw in his office 676 persons interested in attending Southern Tech, a rise of 24 percent over last year's figure. This number does not include those persons who accompanied the applicant, nor does

it reflect the considerable number of prospects whom the counselor saw in school visits or on College Day programs. Most of the interviews were concerned with questions about Southern Tech in general.

A total of 213 students plus some parents and faculty members talked with the counselor about personal - academic problems. In this category a drop of 7 percent was noted when compared with last year's total.

Compared with last year's number, the 213 persons seen represent an increase of 26 per cent. This is in line with the greatly increased number of persons seeking and receiving aid and the large increase in aid money allocated.

Though only seven persons during the ten and one half month period were given individual test batteries, the counselor did other testing for groups not directly connected with the institution.

1. The Junior Engineering Technical Society - The Engineering Aptitude Test - 40 senior high school students.
2. The Southern Bell Telephone and Telegraph Company - Southern Bell's Pre-Employment Test - 14 Southern Tech graduating students.
3. The College Entrance Examination Board - SAT and Achievement Tests in English Composition and Intermediate Math, Institutional Testing Program - 95 STI applicants.

The counselor represented Southern Tech at six College Day or Night programs, all of them in the fall. All of these programs were coordinated through the counselor's office.

In contacting senior high schools in Georgia, 78 separate calls were made by the counselor personally.

Contacts through the mail were maintained. As usual, the quarterly Counselor's Newsletter was published and the mailings of the catalogs to the counselors' offices was done. In addition, every counselor in Georgia senior high schools received an invitation to the Southern Tech "Careers in Engineering Technology" Open House in mid-May.

The main activity in which the counselor participated this year aside from the usual was the coordination of the Atomic Energy Commission's mobile exhibit "This Atomic World" which toured the schools of the state from September 11, 1967 to May 17, 1968. The completed schedule showed visits to 141 senior high schools in addition to talks by the exhibit manager to 21 civic clubs in most parts of Georgia.

As in the past, the counselor's office worked closely with the international student contingent. For the year 1967-68, 32 students from 15 countries

attended Southern Tech. A list of the students' names, countries and local addresses and phone numbers was kept on a quarter-to-quarter basis and copies were furnished to churches, civic clubs, and individuals who wished to invite them to parties, picnics, religious services, and to visit in private homes.

### Library

The new library building was occupied in May, 1968. The building cost \$642,000.00 and the furnishings cost \$43,232.86. It will house 50,000 volumes and will eventually seat 400 to 450 persons. It includes a seminar room, a speaker's office, a storage room and kitchen, a future computer room, a library staff lounge and a music room equipped with a stereophonic sound system.

1. Number of volumes added 2,957 during the year  
Total number of volumes at end 11,617 of year
2. The library is much nearer to meeting Southern Association Standards now with the new building; however we still have a serious deficiency in the size of our book holding. A sharp increase in funds for books will be necessary for several years to meet Southern Association Library Standards.

Expenditures for books and other materials      \$22,500.00

Expenditures for personal services                \$23,653.75

### General

1. Significant changes or improvements in existing curricula:

The Textile Engineering Technology Department began in September, 1967, teaching the first courses in the new Apparel Manufacturing Technology Option.

The Gas Engineering Technology Program was discontinued.

The Electrical Engineering Technology Department completed the remodeling of two laboratories, one of which is now equipped with a digital computer trainer.

The Mechanical Engineering Technology Department added important new equipment to the MET 141, 142, 143, and 144 laboratories.

The proposal for a four-year curriculum has been submitted to the Chancellor's Office, but has not been acted upon yet.

2. Public services, publicity, short courses, advisory services

Director McClure and faculty members were again active in providing public services, participating in civic and professional organizations, and bringing

favorable attention to the institution.

Counselor W. J. Glenn again coordinated the College - Day and College - Night Programs in the high schools. Nine members of the faculty and administration alternated in representing Southern Tech at the programs. Sam J. Baker, recently appointed admissions counselor, assumed the responsibility of coordinating the programs during the spring quarter.

R. W. Hays served as publicity coordinator until the spring quarter. This duty was then assigned to Sam J. Baker.

The Open House, "Careers in Engineering Technology," held on Sunday, May 19, and Monday May 20, attracted much favorable attention. Large numbers of people visited the school and viewed the outstanding displays, demonstrations, and exhibits provided by departments of the school and by several in Industries. T. W. Anderson, Chairman of the Open House Committee, and his committee did an outstanding job of planning and coordinating the program. Department heads, faculty members, and students are also to be commended for preparing and conducting the exhibits. Faculty wives are due appreciation for providing refreshments.

Four of the faculty attended the annual meeting of the Southeastern Section of ASEE at Virginia Polytechnic Institute April 17-19, 1968. E. R. Stone served as chairman of the new Technical Institute Division of the Southeastern Section for 1967-1968 and was re-elected chairman for 1968-1969.

Twenty members of the faculty and administration attended the ASEE Convention at UCLA June 17-20, 1968.

Southern Tech and the Cobb County Chamber of Commerce sponsored a Small Business Administration "Prospective Owners' Workshop" on the campus Tuesday, November 14, 1967.

Several pictures of students in classes and laboratories at Southern Tech will appear in Volume 1 of a five-volume Encyclopedia of Career Opportunities for Technicians to be published by the J. C. Ferguson Publishing Company.

A number of Southern Tech students were selected for listing in Who's Who among Students in American Junior Colleges.

The Civil Engineering Technology Department and the Georgia State Highway Department sponsored visits to more than fifty high schools to interest students in the Civil co-op program at Southern Tech. C. T. Holladay coordinated the program.

L. V. Johnson and R. W. Hays attended the Inventory Conference on Engineering Technology Education in Washington, D. C. Mr. Johnson served as a special consultant/expert at the conference, and Mr. Hays delivered a paper on employment of engineering technicians.

Six of the faculty attended the Symposium on Effective Teaching sponsored by Georgia Tech and the Southeastern Section of A.S.E.E. April 1-2, 1968.

Sam J. Baker made get-acquainted visits to eight high schools in East Georgia in April. Paul Smith visited six high schools during April, and W. J. Glenn visited nine schools in South Fulton County.

The following faculty members served on Southern Association Evaluation Committees:

R. W. Mays and John Pattillo, Chattanooga State Technical Institute, October 2-5, 1967.

W. M. Gordon, Richland Technical Institute, Columbia, South Carolina, March 31-April 3, 1968.

C. T. Holladay, Hamlet, North Carolina Technical Institute, April 3-5, 1968.

R. L. Myatt and John Pattillo, Greenville Technical Education Center, March 31-April 3, 1968.

The following faculty members served on E.C.P.D. accreditation inspections:

C. R. Orveld, Ohio School of Applied Science, Cincinnati, March 18-19, 1968, and several others.

Y. T. Williams, St. Petersburg Junior College, March 19-20, 1968.

R. C. Carter, University of Texas at Arlington, March 28-29, 1968.

R. L. Myatt, Richland Technical Education Center, Columbia, South Carolina, April 24-26, 1968.

Louis T. Bates is in constant demand as a speaker at conventions, civic clubs, and business, professional, and religious meetings and brings Southern Tech favorable attention wherever he speaks.

M. E. Blair attended the Cobb County Board of Education Audio-Visual Aids Workshop, spoke to the faculty of the Sky View School at Mableton on "Audio-Visual Aids and Social Studies" and gave two lectures to boys' groups at Eastside Baptist Church.

L. Y. Bryant and H. L. McClure attended a meeting of the Southern Association of Schools and Colleges in Dallas, Texas, November 26-29, 1967.

L. Y. Bryant represented Southern Tech at the annual meeting of the Georgia Association of Junior Colleges at South Georgia College.

L. Y. Bryant and W. J. Glenn attended the annual conference of the Georgia Association of Collegiate Registrars and Admissions Officers at Jekyll Island and attended the annual meeting of the American Association of Collegiate Registrars and Admissions Officers at Philadelphia.

Dan Conner attended an Institute for newly appointed business managers, sponsored by the Kellogg Foundation, at the Florida State University last summer.

Mr. Carroll spoke to the Tri-City Business and Professional Women's Club.

Jesse W. Ellington attended the American Apparel Manufacturers Association Panorama for Progress and presented a Southern Tech exhibit.

W. J. Glenn attended the annual convention of the Georgia Association of School Counselors at Jekyll Island; addressed the student body of Toccoa Falls High School and spoke to interested juniors and seniors at Cherokee High School, Canton; spoke to the Monroe Rotary Club and represented Southern Tech at the Career Day at Columbia High School in Decatur.

R. W. Hays received the Second Place Arthur H. Williston Award for literature in the technical institute field.

He lectured on technical writing to a special inter-agency seminar sponsored by the United States Civil Service Commission in Atlanta; addressed the Pilot Club of Marietta and participated in a three-day Institute on "Communicating Effectively" at the University of Wisconsin, where he directed the two-day session on "Written Communication-Technical Writing."

Mr. Hays coordinated summer programs on the campus for the Commonwealth-Tumpane Company, Ltd., and the Georgia Tech Continuing Education Center and a series of orientation programs during the academic year for the Tumpane Company. Six of our faculty were teachers in these programs.

A. J. Harkin addressed several civic clubs on education in general and Southern Tech in particular and spoke at the winter meeting of the Tau Alpha Pi Honor Society.

H. L. McClure is again chairman of the nominating committee for the Technical Institute Division of A.S.E.E.

In January he visited Cape Kennedy with a group from Lockheed-Georgia Corporation.

He was appointed to the Committee of Post-Secondary Specialized and Technical Institutions of the Southern Association of Colleges and Schools.



W. S. Newman served as chairman of the Twentieth Anniversary Planning Committee, chairman of the Twentieth Anniversary Banquet Committee, co-chairman of the Bathtub Race Committee, and Advisory Member of the "Careers in Engineering Technology Committee.

C. R. Orvold was a panelist at a meeting of the Association of General Contractors in Atlanta, and served as project director for HEW two-year Post High School Curriculum in Architectural and Building Construction Technology.

John Pattillo attended the 1967 Conference of the Georgia Library Association at Jekyll Island. He was elected vice-chairman of the College and University Section of the Association.

In May, Mr. Pattillo participated in Georgia Library Association Workshop for Officers and Committee Chairmen.

Jacob Remeta was a panelist at an ASEE Conference on Continuing Education at New Orleans November 12-15, 1967.

Rolf Roley has been appointed to the Traffic Board of the Cobb County Safety Commission.

P. V. Smith attended a luncheon and conference sponsored by Georgia Tech on Friday, August 11, 1967, for the purpose of forming a Georgia Placement Association.

He visited Union Carbide Company, Luling, Louisiana; attended the ASEE Co-operative Division meeting at Houston, and toured the Marshall Space Flight Center, and the Humble Oil Refinery; visited the Boeing Company at New Orleans, and met with some Southern Tech graduates.

Mr. Smith was Secretary of the Technical Institute Division of the Southeastern Section of ASEE.

David E. Summers is Professional Examiner for Marietta Civil Service Board and member of the Marietta Board of Electrical Examiners.

Yardy T. Williams taught a special course for local industry on digital computer fundamentals and served as a consultant for local industry and conducted a faculty seminar on digital computers.

#### Number of Students in Extension Classes:

Contract Training: Training schools conducted for industry on the Southern Tech campus.

<u>Company</u>	<u>Type of School</u>	<u>Number of Schools</u>	<u>Students</u>
	alian	2	15
Southern Railway Company	Whotfil	Summer & Fall, 1967	15

Southern Railway Company	Management Training School	1 Summer, 1967	27
Southern Railway Company	Machinist School	2 Summer & Fall, 1967	18 18
Southern Railway Company	Boiler Maker, Pipe Fitter School	1 Summer, 1967	15
Southern Railway Company	Carmen Schools	4 Summer & Fall 1967 Winter & Spring 1968	18 18 18 18

3. Our library was finally completed, and we occupied it during the month of May. This building was critically needed, because lack of space made it impossible to materially increase our holding even within our limited funds allocated for books.

No other new construction is under way or scheduled at the present time.

#### 4. Gifts

The Arrow Company-----	\$1,000.00
Equipment for Textile Department	
Robert K. Thrower, Inc.-----	250.00
Equipment for Architectural Department	
Sybil Lambert-----	500.00
For Clark M. Lambert Memorial Scholarship	
Southern Tech Alumni Association-----	\$1,134.86
Draperies for new Library	

Thirty-nine individuals and fifteen organizations made miscellaneous donations to the new library.

5. The major faculty effort this year has been directed to the development of the four year curriculum for Southern Tech. This work was begun the previous year and was carefully scrutinized by Georgia Tech. After their endorsement last summer, a proposal was drafted, and submitted to industry for appraisal. With industry's unqualified approval, the draft was then submitted to the Chancellor. It is now under study by that office.

After much study of Georgia's industrial needs and the national trends of Technical institute education, the faculty of both Southern Tech and Georgia Tech are convinced that whether the four year program at Southern Tech is approved or not will determine whether we remain the outstanding Technical institute in the South or not.

Every state contiguous to Georgia either has such a program or is actively considering it.

The major problem at Southern Tech this year has been a slightly decreasing enrollment. Creation of new units of education beyond high school has been a contributing factor; however, the effect of the draft is, in our opinion, the major one. Southern Tech offers a more rigorous schedule than many four year colleges and offers deferment for only half as long. Also the fact that we have virtually as all male student body makes the effect of the draft felt more than at a co-educational institution.

It is hoped that the efforts of the admission counselor hired last March will help to offset this downward trend of enrollment; however, his efforts will not be fully felt until September, 1969.

The placement still gives valid evidence of the critical need for engineering technicians in industry. Our graduates are averaging starting salaries above \$600 per month and up to seven job opportunities per graduate.

We have been able to add to and replace more laboratory equipment this year than in any past year; consequently our equipment inventory is the best it has ever been. We still have need for a larger allocation for capital items; however, because the surplus funds available this year will not be reported. We especially need an increased allocation for books to raise our holding closer to the minimum requirements of the Southern Association.

Sincerely,

H. L. McClure  
Director

HLM:gr

SUMMARY OUTLINE OF 1967-68 ANNUAL REPORT

Personnel turnover continues low in faculty ranks; higher in non-academic positions.

Faculty continues to upgrade itself educationally and professionally, and to participate extensively in extra curricular and civic activities. They are authoring a number of textbooks, and are working closely with a number of Georgia industries in solving their educational problems.

The faculty has also been quite active in accreditation inspections for both the Southern Association and the Engineers' Council for Professional Development. This same activity is also evident in a wide variety of technical and professional societies.

Enrollment continues to decline very slightly; however student quality, on paper at least, continues to inch upward. Increased student unrest has been noticed; however, not nearly to the extent of the rest of the nation.

Scholarship and loan aid to students increased materially this last year.

Starting salaries and the number of job opportunities for graduates continue to climb.

The new library is a magnificent step forward; however it magnifies our deficient book holding.

We were able to add significantly to our laboratory equipment from surplus funds; however, deficiency still exists in this area.

One major problem at the present is our declining enrollment. This decline is attributable to three factors, which in order of importance are:

- (1) the draft situation ;
- (2) the lack of "respectability" of a two year degree;
- (3) competition for students with the many emerging junior colleges and technical schools in the state.

Two steps we have taken will help to overcome this problem, namely:

- (1) hire an admissions counselor whose entire duty is recruiting and directly related activities;
- (2) propose a four-year program of study leading to a baccalaureate degree.

The effectiveness of the admissions counselor's work, no matter how capable he may be, will be severely limited without approval of the second. The four-year program must be approved to:

- (1) provide Georgia industry with the highly qualified technicians they must have; otherwise, they will have to recruit at schools in neighboring states which have already set up such programs;
- (2) clarify completely the draft status of our students;

(3) increase quickly and dramatically the number of two-year technicians in such short supply.

Mr. L.V. Johnson, Director  
Engineering Extension Division  
Georgia Institute of Technology  
Campus

Subject: Twenty-second Annual Report on the Southern Technical Institute

Dear Mr. Johnson:

In accordance with your request, I respectfully submit the following report for the fiscal year 1968-69.

Faculty

1. Number of instructional faculty 1967-68

(a) Additions -- July 1, 1968 - June 30, 1969	
(1) New Appointments -----	8
George Melvin, Architectural Engineering Technology	
David C. Lewis, Chemistry	
Ozen Batum, Chemistry	
Walter Hinton, English	
Leon Ivey, Industrial Engineering Technology	
Robert Jordan, Industrial Engineering Technology	
Maurice Halper, Textile Engineering Technology	
J.W. Hardwick, Mathematics	
(2) Returning from Leaves -----	0
(3) Transfers from non-teaching positions -----	0
(4) Total additions (1) - (3) -----	8
(b) Deletions - - July 1, 1968 - June 30, 1969	
(1) Resignations: -----	4
William Hurst, Chemistry and Physics	
Rolf Roley, Civil Engineering Technology	
Leon Ivey, Industrial Engineering Technology	
Robert Jordan, Industrial Engineering Technology	
(2) Terminations by Institution -----	0

- (3) Retirements: -----4  
 G.L. Crawford, Chemistry and Physics  
 L.Y. Bryant, Registrar  
 C.V. Maddox, Dean of Students  
 W.W. Vaughn, Architectural Engineering Technology
- (4) Deaths -----0
- (5) Leave of Absence -----3  
 Herbert Eller, Industrial Engineering Technology  
 A.J. Hunkin, English  
 R.P. Youngblood, Mathematics
- (6) Transfers to non-teaching positions-----0
- (7) Total deletions (1) - (6) -----11

(c) Number of faculty 1968-69  
 Two of this number are full-time temporary faculty who are filling positions made vacant by resignations that we have been unable to fill to date with permanent instructors.

2. The following faculty members were on leave during the 1968-69 school year:

Herbert Eller, Associate Professor, Industrial Engineering Technology in India with the National Science Foundation to serve as Coordinator of the activities of American consultants and Indian educators in conducting and augmenting summer institutes for Indian polytechnic teachers.

Alfred J. Hunkin, Assistant Professor, English  
 On an assignment with the Army Corps of Engineers, Mediterranean Division, in Saudi Arabia, teaching English to Saudi Arabians.

Ralph P. Youngblood, Associate Professor, Mathematics  
 Advanced study at the University of Tennessee.

3. Doing Graduate Work "in Service:"

George Bruce	Georgia Tech
W.E. Burton, Jr.	Georgia Tech
Clifford Cowan	Georgia Tech
Jesse Ellington	Georgia Tech
K.E. Franklin	Georgia State
James P. Goodwin	Georgia Tech
John Keown	Georgia Tech
W.S. Newman III	Georgia Tech
David Summers	Georgia Tech

4. Advanced Degrees Received:

None



5. Highest Degrees Held by Faculty and Administration:

<u>Faculty</u>		<u>Administration</u>	
Doctor's degrees	- 3	Doctor's degrees	- 0
Master's degrees	- 21	Master's degrees	- 6
M. Ln.	- 2	Bachelor's degree	- 1
Bachelor's degrees	- 28		
No degree	- 1		

Faculty

6. Average Number of Equivalent Full-Time Teachers

Summer Session - 32.5  
 Regular Session - 60.3

7. Average Workload Per Teacher

Summer Session - 12.9 quarter credit hours  
 Regular Session - 13.6 quarter credit hours

8. Research and Creative Projects

- (a) No formal research is in process.
- (b) Books and articles are listed on cards.
- (c) Projects of a creative nature are listed on cards.

Students

1. See attached report.

2. Class Size

	0-10	11-20	21-30	31-40	41 and over
<u>Number of Sections</u>					
Summer Session	15	100	28	2	2
Regular Sessions	100	340	334	79	22

Average Class Size \*

Summer Session 16.9  
 Regular Sessions 21.3

\* These statistics have included laboratory sections which must be small.

3. Graduates and Degrees Awarded in 1968-69

<u>Quarter</u>		<u>Graduates</u>		<u>Degrees</u>
Summer, 1968	55		57	
Fall, 1968		74		80
Winter, 1969		71		76
Spring, 1969		125		131
	<u>55</u>	<u>270=</u>	<u>57</u>	<u>287=</u> 344

Degrees Awarded by Areas of Specialization	
Air Conditioning Engineering Technology	14
Architectural Engineering Technology	57
Civil Engineering Technology (both options)	63
Electrical Engineering Technology(both options)	50
Gas Engineering Technology	4
Industrial Engineering Technology(both options)	79
Mechanical Engineering Technology	66
Textile Engineering Technology (both options)	11

Total 344

4. Appraisal of Academic Work of Students  
1968-69

Seven criteria were applied to the 1968-69 Southern Tech student body in an effort to evaluate their academic work for the year. All of the data help to prove that the over-all scholastic ability of the student body was slightly better than that of student bodies of several previous years and that the quality of their academic work was somewhat higher. The per cent of those on the cumulative roll who graduated should be viewed with caution, however, since more members of this year's class remained longer to attain their first degree and more members worked for and received more than one degree.

Dropped and Probationary Students in Comparison  
(Summer and Fall, 1968; Winter, 1969)

	<u>1966-67</u>	<u>1967-68</u>	<u>1968-69</u>
Dropped	139	194	135
Probationary	191	205	173

Graduation Point Averages

2.36	2.42	2.48
------	------	------

Number of Graduates on Dean's List

45	49	63
----	----	----

Winners of Honors (Graduates)

6.3%	8.6%	9.3%
------	------	------

Per Cent of Those on Cumulative Roll Who Graduated

19.0%	16.6%	22.2%
-------	-------	-------

Average SAT Scores of Fall Freshmen for Three Years

V	M	V	M	V	M
395	462	400	471	412	477

Total Number of Students Making Dean's List

	<u>Summer</u>	<u>Fall</u>	<u>Winter</u>
1966-67	45( 8.3%)	103( 8.2%)	110(10.6%)
1967-68	39( 9.2%)	160(13.1%)	154(14.6%)
1968-69	54(10.1%)	165(13.9%)	151(15.1%)

5. Extra Curricular Activities and Student Conduct

During the year two campus-wide social functions were held. One was a dance on the occasion of our Campus Visit Week-end. At that time prospective Southern Tech students were invited to spend the week-end on the campus. Many prospects took advantage of the opportunity. This dance was sponsored by the Textile Club (Sigma Delta Phi). The other campus-wide function was the Valentine Day Dance, sponsored by the Architectural Club (Alpha Beta Sigma). At this dance Miss Southern Tech was elected. There were banquets held by some of the student groups.

Student publications The Engineering Technician and The Technician's Log functioned as usual, and the radio station kept busy.

The bathtub race was run on May 31 and drew the usual spectator interest. The number of participants increased somewhat this year.

Student conduct during the year was about normal. There was the usual discontent with the dining hall. Also there was some grumbling about the Coke machines being removed from the dormitories and about the lack of service to the machines before they were removed.

Acts of thievery on the parking lots seems to have increased. The lighting on the big lot has been improved. It is hoped that this will be a deterrent to the thefts.

Four students were suspended during the year for disciplinary reasons.

The Southern Tech basketball team made one of the best showings in recent years. Picked in the coaches' pre-season poll to finish fifth in the Northern Division of the Georgia Junior College Athletic Association, the Hornets surprised everyone by winning the division championship and finishing the season with twenty-three wins and only thirteen losses. Terry Lindsey was named on the "All-State Team," and Barry Parker was named on the "All-Tournament Team." Coach Harry Lockhart was picked as "Junior College Coach of the Year" in the coaches' poll and again by the Atlanta Tip-Off Club.

The baseball team came on strong at the end of the season to place second in the Northern Division and gain a position in the state play-offs. Only eleven players comprised the Southern Tech team, and several games were played with a total of nine players.

The final overall record was fifteen wins and seventeen losses after only one win in the first ten games. Terry Lindsey, Barry Parker, Allan Bentley, and Frank Ward were named on the "All-State Team."

Only four players comprised the golf team, but they won the Gainesville Invitational Tournament and took third place in two other tourneys.

Ten teams participated in the intramural basketball league. The season was extended to include fall and winter quarters because the lack of outside facilities, such as an athletic field, makes it very difficult to have outdoor sports in the intramural program.

The two tennis courts are in constant use day and night when weather permits. Students use the gym to play basketball and ping pong and to lift weights. The gym is open from 8:00 A.M. to 10:00 P.M. daily.

Twelve to fifteen faculty members are participating several days a week in a fitness program which includes running, weight lifting, whirlpool baths, etc.

#### 6. Financial Aid

(a) Since most students who withdraw do so between quarters without giving their reasons, there is no information on how many did so on account of financial difficulties. However, the counselor discussed financial problems with 227 persons during the year.

(b) Categories of Aid:

<u>Type</u>	<u>Number of Students</u>	<u>Total Amount of Aid</u>
Scholarships	27	\$10,840.00
Loans	215	\$50,988.80
Work-Study	15	\$52,388.00

#### 7. Placement and Co-Op Departments

##### PLACEMENT OFFICE

The Placement Office has the responsibility for graduate placement, alumni placement, the Co-Op program, part-time work, Alumni Newsletter and assistance to the Alumni Times, alumni membership and dues records, alumni employment records, alumni-college projects, and the Southern Railway program.

The office is badly in need of facilities for individual interviews of graduates with industrial representatives. With only two small individual interview offices, which are unsatisfactory because of heating and ventilation problems, there is a limit to the number of industries that can interview per day.

The Administration and the departments have given excellent cooperation and support of placement efforts, but many of the faculty are not aware of the utilization of graduates by industry. Industry would welcome visits by faculty members, who then could better inform students of their employment needs.

There is still difficulty in collecting employment data from graduating students. Many are apparently enrolling at other colleges or going immediately into military services without reporting their status.

The office has developed a new area for placement service-assistance to alumni who are completing B.S. degrees at other colleges, some of which do not have placement offices as well organized as this one or are not directed toward industry whose needs are technical manpower. There will probably be increased demand for assistance in this area, since many Southern Tech graduates are going on to complete four-year programs.

(See Appendix B for the Placement Report.)

#### 8. Counseling

The counselor saw 615 persons interested in attending Southern Tech, a decrease from last year of 8 percent. He talked to 237 students and some parents and faculty members about personal or academic problems. This is a 24 percent rise over last year. He advised 227 persons on financial problems, an increase of 7 percent. It might be pointed out that not all of these persons received aid, but all did get counseling in financial matters.

The financial aid program administered by the counselor was as follows:

Type	Number of Students	Amount
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Civic Club Scholarships	2	300.00
National Defense Student Loans	15	88,325.00
Educational Opportunity Grants	12	6,025.00
Georgia Higher Education Assistance Corporation	60	39,579.00
<b>Totals</b>	<b>102</b>	<b>\$58,744.00</b>

In addition to the above, Southern Tech's participation in the federally-sponsored College Work-Study Program included 15 students during the year who were paid in salaries for employment on campus jobs total of \$5,238.00.

In July, 1968, three local Lions Clubs set up with the counselor's office an emergency loan fund for students who needed short-term loans in relatively small amounts for such reasons as week-end expenses, car repairs, trip to visit manufacturing plants, etc. As of the present date, a total of \$3,094.80 has been loaned to 140 students. Since the initial sum was only \$700.00, this represents a very large turnover in funds.

Fifteen individuals requested the test battery during this time. The counselor administered the College Entrance Examination Board SAT's and achievement tests to 129 STI applicants. He also graded them and gave the results to the registrar's office.

At the beginning of the fall quarter, the counselor tested 70 entering freshmen in the Electrical Engineering Technology Department. This was a special test battery used nationwide to establish a norm for entering EET students in technical institutes.

The counselor also administered the National Engineering Aptitude Search test battery to 71 high school students.

The counselor did represent Southern Tech at college night programs at Reinhardt College, Dalton College, West Georgia College, Piedmont College, Young Harris College and Elbert County High School. The counselor made personal calls on all of the high schools in Cobb County plus Cherokee High School, Canton.

The quarterly Southern Tech Counselors' Newsletters were sent to every guidance department in the state. In addition, the counselors received several pieces of information in the "Big Weekend" which was held in January at STI. This was done in cooperation with the admissions counselor.

#### Public Relations

The counselor took over the responsibility of sending out press releases and arranging for programs for civic clubs and schools. At this time, letters were sent to each junior and senior high school and each civic club president in the county advising them of the availability of faculty members. Eleven speaking engagements were set up as a result of this mailing.

It would be difficult to list all articles and stories written since the counselor began handling this in October. Southern Tech is receiving much more publicity in newspapers and over the air than it has ever had since the counselor came to the school. It is the counselor's idea that a steady stream of information should come from STI to all appropriate media all over the state.

Some of the big events on which the counselor wrote several articles for each include:

1. The "Big Weekend"
2. The Small-Business Seminar
3. The Bathtub Race
4. STI Graduation

The counselor has worked closely with the international student contingent. During 1968-69, 39 students representing 21 countries attended Southern Tech.

The admissions counselor visited 250 to 300 high schools in Georgia and fifty to seventy-five in Florida, attended every College Night Program in Georgia and several in Florida, conducted a campus weekend for eighty high school students, mailed 18,000 brochures and 900 copies of The Engineering Technician to prospective students and made a third follow up mailing near the end of the spring quarter, and had department heads write students who showed department preferences on inquiries.

Although every device known was used to recruit students, applications for the fall quarter are significantly down over last year. High-school counselors repeat over and over that they cannot sell Southern Tech on the two-year technical school basis. Counselors and students frankly state that Southern Tech will cease to exist if it remains a two-year school. Action is urgently needed in the campaign to get a four-year program.

(See appendix C for the counselors' reports)

#### Library

Improvement of the Physical Plant continued, the collection grew rapidly, and many donations were made by individuals and corporations. The Library budget totaled \$59,132.50, of which \$30,907.50 was for books, periodicals, and binding. Added to this amount was a Health, Education, and Welfare Title II grant of \$5,000.00 for library materials. The ECPD inspection report on the Library was generally favorable but pointed out the need for increased staff, and clarification of the faculty rank of the professional staff.

1. Number of volumes added during 1968-1969 - 2,479  
Number of volumes at end of year 1968-1969 - 13,194
2. An evaluation of the Southern Tech Library by the Standards of the Southern Association of Colleges and Schools would again indicate the need for increased financial support and a larger staff to meet the minimum requirements of the Association:

(Note: See appendix D for the librarian's report.)

#### General

1. Significant Changes or Improvements in Existing Curricula.

Civil Engineering Technology curricula have been completely revised, dropping the options from 119 and 120 hours to 102 and 103 hours.

The Electrical Engineering Technology Department has completed remodeling of three more laboratories and has designed and constructed two classroom demonstration tables, a number of classroom visual aids, and a number of assemblies for use in laboratory programs.

The English Department has continued refining the course Language and Logic and for the first time has integrated library training into the English Program.

The Industrial Engineering Technology Department began sponsoring the Industrial Engineering Technique series at Georgia Tech in the fall quarter, 1968.

The Mechanical Engineering Technology Department has acquired important new equipment for MET 141, MET 142, and MET 143 laboratories and has secured an overhead projector and transparency for use by the MET faculty.

The Physics and Chemistry Department has approximately doubled demonstration equipment for demonstration lectures and has added laboratory equipment to permit smaller laboratory groups. The Department has arranged for a film loop system which the Library has secured for use by departmental faculty and by students. A policy of giving frequent short quizzes instead of infrequent hour quizzes has been established.

The Textile Engineering Technology Department has finished the first round of restructuring all Textile Engineering Technology courses and submitted the curriculum to the ECPD inspection committee in January, 1969. Mr. Halper prepared notes for ANET 262, 263, and 264 and outlines for ANET 266, 267, and 268 for use by students, since there are no text books for their use. He has also equipped a laboratory in the area formerly used by the Gas Engineering Technology Department. The machinery in the laboratory includes some of the most sophisticated machinery used by the Apparel Manufacturing Industry. All of the equipment has been acquired without any cost to the school except for a few freight bills.

## 2. Public Services (Budgeted)

Contract Training: Training schools conduct for industry on the Southern Tech campus.

<u>Company</u>	<u>Type of School</u>	<u>Number of Schools</u>	<u>Students</u>
Southern Railway Company	Diesel Machinists	4	79
Southern Railway Company	Electricians	2	24
Southern Railway Company	Carmen	7	148

## 3. Faculty Participation in Non-Budgeted, Non-Curricular Public Service

- (a) General activities and public service (See attached cards)
- (b) Professional activities and distinctions (See attached cards)
- (c) Papers presented at meetings (See attached cards)



Note: See appendix A for the report of the English Department.

4. New Construction and Major Items of Repair : None

5. Gifts

Robert K. Thrower, Inc. -----\$250.00  
Film for Architectural Department

Marietta Kiwanis Foundation-----\$ 62.50  
Books for Library

Sybil Lambert-----\$500.00  
For Clark M. Lambert Memorial Scholarship

6 & 7. Our most pressing problem is diminishing enrollment. For several years enrollment has been "flat" with a slight decrease the last two years. This coming fall, our preregistration figures indicate that there will be a significant drop in enrollment--in spite of increased recruiting efforts during the year. This experience, however, is still somewhat better than the national picture for two-year technical institutes of similar quality and rigor.

One reason for the drop is that the draft hurts us more than other two-year colleges. Generally our entrance requirements and the rigor of our courses discourage enrollment, particularly when the same credentials will admit prospective students to a number of four-year colleges. This latter choice would, of course, double the length of deferment in a less demanding course of study.

A more important and continuing reason for the enrollment drop, however, is the social pressure in our society for a baccalaureate degree. Neither parents nor students will generally consider an associate degree program unless the opportunity is there to continue for a full four-year program. This is true whether the student intends to go four years or not.

Our admissions counselor, in visiting high schools over the state, has repeatedly heard the statement from counselors, "I can send you very few students until you have a four-year program." In fact his experience has convinced him that the only way to substantially and permanently increase enrollment is with a baccalaureate program on this campus.

The fact that the fate of the four-year program proposal seems in doubt has had very marked and deleterious effects on faculty morale. As one faculty member put it, "We need to make changes in our two-year program but we don't because the four-year program would materially affect the changes we would make. In fact we are stymied until we get an answer on our four-year proposal." Both students and industry are constantly contacting us for information on the progress of the proposal.

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The four-year program has the solid backing of Georgia industry, Georgia secondary schools, and Georgia students; and it appears to us absolutely necessary to do the full job of technical education for the people of this state.

We continue to have an increasing need for a computer capability on the Southern Tech campus. For several years our course in computer programming, which is a basic course to most of our disciplines, has been offered using the facilities at Georgia Tech. This practice necessitates the carrying of IBM cards back and forth daily and results in only three or four programs per student being run during the quarter. At least one program a week should be run. Further, the techniques learned here cannot be applied to subsequent courses for solving problems as should be done.

The 1401 computer given us, and which is used entirely for our computer and control option, has had its memory so severely limited by IBM that its computer capability is virtually nil. In fact it is difficult even to run diagnostic routines on it, and its age makes the necessity for maintenance a continuous problem. If this machine should collapse, and it shows some indication of doing so, the entire option would have to be abandoned.

To my knowledge, we are the only accredited college of our type in the country without on-campus computing facilities.

Another chronic problem that is becoming more acute as the county grows is our lack of a playing field for recreational purposes. We have been using fields at Larry Bell Park over a mile away, but the outside use of these facilities is making our ability to schedule more difficult every day. Now there is a county plan developing which may either redesign the park for other uses or otherwise eliminate it entirely for us.

We have no acceptable space on campus for a playing field. An area behind the gym has been set up for this purpose, but it will have to be cleared and graded before we can use it. Funds have not been available to do this.

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*Smith*  
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Type of Enrollment: Regular  
~~or~~  
~~In service~~

Academic Year 1968-69

I. Total Academic Year Enrollment

Enrollment - Fall Quarter	<u>1185</u>
Enrollment - Winter Quarter	<u>997</u>
Enrollment - Spring Quarter	<u>985</u>
Average Enrollment	<u>1056</u>
Cumulative Enrollment	<u>1508</u>

II. CUMULATIVE Academic Year Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	<u>848</u>	Residents of Georgia	<u>1318</u>
Sophomore	<u>630</u>	Residents of Other States	<u>154</u>
Junior	<u>          </u>	Residents of Foreign Countries	<u>36</u>
Senior	<u>          </u>	Total	<u>1508</u>
Graduate	<u>          </u>	Men	<u>1493</u>
Professional	<u>          </u>	Women	<u>15</u>
Other Classification	<u>30</u>	Total	<u>1508</u>
Total	<u>1508</u>	Veterans	<u>148</u>
		Non-veterans	<u>1360</u>
		Total	<u>1508</u>

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>52,702</u>
Upper Division (Junior and Senior)	<u>          </u>
Graduate	<u>          </u>
Professional	<u>          </u>
Total	<u>52,702</u>

L. Y. Bryant, Registrar  
Signature

NOTE: Quarter Credit Hours for Army, Air Force, or Naval ROTC courses will not be reported except by the Fort Valley State College. Equivalent credit for basic physical education courses will be reported even though the institution does not record academic credit for these courses. Equivalent credit will also be reported for remedial and developmental courses offered regularly enrolled students.



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 Atlanta, Georgia 30334

Southern Technical Institute  
 Institution

Type of Enrollment: Regular  
~~or~~  
~~In service~~

1968-69 ANNUAL ENROLLMENT REPORT

Summer Quarter 1968

I. Enrollment by Session and Cumulative Enrollment

Enrollment First Session	_____
Enrollment Second Session	<u>Only one</u>
Cumulative Enrollment	<u>531</u>

II. CUMULATIVE Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	<u>276</u>	Residents of Georgia	<u>477</u>
Sophomore	<u>248</u>	Residents of Other States	<u>39</u>
Junior	_____	Residents of Foreign Countries	<u>15</u>
Senior	_____	Total	<u>531</u>
Graduate	_____	Men	<u>526</u>
Professional	_____	Women	<u>5</u>
Other Classification	<u>7</u>	Total	<u>531</u>
Total	<u>531</u>	Veterans	<u>77</u>
		Non-veterans	<u>454</u>
		Total	<u>531</u>

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>7,305</u>
Upper Division (Junior and Senior)	_____
Graduate	_____
Professional	_____
Total	<u>7,305</u>

L. Y. Bryant, Registrar  
 Signature

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Type of Enrollment: Regular  
~~or~~  
~~In service~~

Academic Year 1968-69

I. Total Academic Year Enrollment

Enrollment - Fall Quarter	<u>1185</u>
Enrollment - Winter Quarter	<u>997</u>
Enrollment - Spring Quarter	<u>985</u>
Average Enrollment	<u>1056</u>
Cumulative Enrollment	<u>1508</u>

II. CUMULATIVE Academic Year Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	<u>848</u>	Residents of Georgia	<u>1318</u>
Sophomore	<u>630</u>	Residents of Other States	<u>154</u>
Junior	<u>          </u>	Residents of Foreign Countries	<u>36</u>
Senior	<u>          </u>	Total	<u>1508</u>
Graduate	<u>          </u>	Men	<u>1493</u>
Professional	<u>          </u>	Women	<u>15</u>
Other Classification	<u>30</u>	Total	<u>1508</u>
Total	<u>1508</u>	Veterans	<u>148</u>
		Non-veterans	<u>1360</u>
		Total	<u>1508</u>

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>52,702</u>
Upper Division (Junior and Senior)	<u>          </u>
Graduate	<u>          </u>
Professional	<u>          </u>
Total	<u>52,702</u>

L. Y. Bryant, Registrar  
Signature

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Type of Enrollment: Regular  
~~Out~~  
~~In Service~~

1968-69 ANNUAL ENROLLMENT REPORT

Summer Quarter 1968

I. Enrollment by Session and Cumulative Enrollment

Enrollment First Session	_____
Enrollment Second Session	<u>Only one</u>
Cummulative Enrollment	<u>531</u>

II. CUMULATIVE Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	<u>276</u>	Residents of Georgia	<u>477</u>
Sophomore	<u>248</u>	Residents of Other States	<u>39</u>
Junior	_____	Residents of Foreign Countries	<u>15</u>
Senior	_____	Total	<u>531</u>
Graduate	_____	Men	<u>526</u>
Professional	_____	Women	<u>5</u>
Other Classification	<u>7</u>	Total	<u>531</u>
Total	<u>531</u>	Veterans	<u>77</u>
		Non-veterans	<u>454</u>
		Total	<u>531</u>

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>7,305</u>
Upper Division (Junior and Senior)	_____
Graduate	_____
Professional	_____
Total	<u>7,305</u>

L. Y. Bryant, Registrar  
 Signature

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Institution

Type of Enrollment: Regular X  
 or  
 In-service

Academic Year

I. Total Academic Year Enrollment

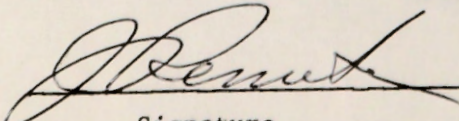
Enrollment - Fall Quarter	<u>1061</u>
Enrollment - Winter Quarter	<u>926</u>
Enrollment - Spring Quarter	<u>983</u>
Average Enrollment	<u>990</u>
Cumulative Enrollment	<u>                    </u>

II. CUMULATIVE Academic Year Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	<u>633</u>	Residents of Georgia	<u>964</u>
Sophomore	<u>443</u>	Residents of Other States	<u>109</u>
Junior	<u>                    </u>	Residents of Foreign Countries	<u>33</u>
Senior	<u>                    </u>	Total	<u>1106</u>
Graduate	<u>                    </u>	Men	<u>1092</u>
Professional	<u>                    </u>	Women	<u>14</u>
Other Classification	<u>30</u>	Total	<u>1106</u>
		Veterans	<u>159</u>
		Non-veterans	<u>947</u>
		Total	<u>1106</u>

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>49,857</u>
Upper Division (Junior and Senior)	<u>                    </u>
Graduate	<u>                    </u>
Professional	<u>                    </u>
Total	<u>49,857</u>

  
 Signature

Type of Enrollment: Regular  
OR  
In-service

1969-70 ANNUAL ENROLLMENT REPORT

Summer Quarter

I. Enrollment by Session and Cumulative Enrollment

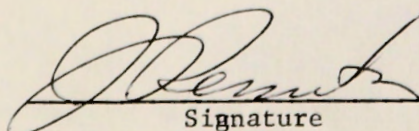
Enrollment First Session \_\_\_\_\_  
 Enrollment Second Session \_\_\_\_\_  
 Cumulative Enrollment \_\_\_\_\_

II. CUMULATIVE Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	265	Residents of Georgia	456
Sophomore	243	Residents of Other States	62
Junior		Residents of Foreign Countries	14
Senior		Total	532
Graduate		Men	524
Professional		Women	8
Other Classification	24	Total	532
Total	532	Veterans	76
		Non-veterans	476
		Total	532

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore) \_\_\_\_\_ 7,365  
 Upper Division (Junior and Senior) \_\_\_\_\_  
 Graduate \_\_\_\_\_  
 Professional \_\_\_\_\_  
 Total \_\_\_\_\_ 7,365

  
 \_\_\_\_\_  
 Signature

TWENTY-THIRD ANNUAL REPORT ON THE SOUTHERN TECHNICAL INSTITUTE

1. Progress of Southern Technical Institute during 1969-70

By far the most important change to occur this year has been the approval by the Board of Regents for Southern Tech to award the baccalaureate degree. Until this approval was granted in March, the faculty and staff of Southern Tech were spending a major portion of their time in committee meetings, curricula revision, visiting other colleges, and in general preparing supporting data for the proposal. Since the approval, the faculty and staff have been even busier with final curricula changes and the myriad of adjustments and changes necessary to convert to the four-year operation.

Because of the severe shortage of new funds this year, the addition of new courses necessary to a baccalaureate program has been held to a minimum. We are adding the following in the new catalog, however:

Descriptive Geometry  
Graphical Solutions  
Technical Illustrations  
Electronic Drawing  
American and World History  
Probability & Statistics  
Computer Programming  
Differential Equations  
Chemistry of Air and Water Pollution  
Organic Chemistry I and II  
Biology I and II  
Nuclear and Radiation Physics  
Experimental Physics  
Astronomy  
Geology

Less than half of the above will be offered the first year with the remainder to be offered on an elective basis as student demand and faculty availability will allow.

Several existing subjects have been modified and reduced in hours to partially allow room for the previously listed courses.

Because of the continuing low enrollment of the Air Conditioning Engineering Technology program, it has been merged with the Mechanical Engineering Technology curriculum.

Southern Tech has conducted two air balancing training programs through the Continuing Education Department of Georgia Tech. A total of 41 students attended these 12-week night sessions. The program was requested by the Air Conditioning Contractors of Metropolitan Atlanta.

We continue to offer special courses for the Southern Railway System. During this year we have conducted nine Car Men Courses for a total of 163 students and three Electrician Courses for a total of 30 students. The former sessions were 3-weeks in length and the latter were of 17-week duration.

Our enrollment is budgeted for 1400 students for the Fall of 1970, an increase of 340 over the previous Fall. Because of the late approval of the Baccalaureate program, this enrollment figure may not be reached; however, it is believed that the Fall of 1971 prediction of 1800 will be met or perhaps exceeded. We do see a substantial increase in Freshman pre-registration for next Fall, and a majority of our graduating students have indicated their intention to continue their studies here.

We are hiring eight additional instructors this Fall to aid in initiating the Baccalaureate program, and it is anticipated that more than twice that number will be needed for the fall of 1971. This latter influx of instructors will require the provision of additional office space.

While our other needs for academic space are adequate for two or three years, we do have physical plant needs which will be made more acute by the Baccalaureate program.

1. A Physical Plant Building -- This building carries our highest priority at the moment because Physical Plant is now inadequately housed in an academic facility. The growing academic needs in this particular area make the provision of separate quarters for physical plant imperative.
2. Air Conditioning of the Gymnasium. Our gym, which was designed for the addition of air conditioning equipment, is completely unusable during the summer months. Because of this we are unable to add the physical education programs we need.
3. Student Center -- We have no place on the campus that provides adequate recreational facilities for our students between classes, or for meetings of departmental clubs or campus-wide student organizations. This need is urgent now and, as the student body grows, will become critical.
4. Athletic Field -- At the present time we have no athletic field on campus for intramural or intercollegiate activities. The lack of this as well as a stifling hot gymnasium makes the operation of a summer sport or recreational program impossible.

Faculty raises throughout the University System have been depressed for the last two years to the extent that salaries have not kept up with the rising cost of living. The Southern Tech faculty has not been happy with this development naturally; but they have accepted the situation philosophically. With the conversion to four-year status, however, they are well aware that their salaries will be substantially lower than other four-year colleges in the state. It is very important then, if we are to retain the well-qualified faculty that we have, that their salaries be adjusted upward as rapidly as possible to bring them in line. If we are not able to do this, we will lose the best qualified of our faculty, and rapidly. It is my firm belief that we have the best technical institute faculty in this country, and to lose a significant number "off the top" would be tragic.

The spirit of cooperation and understanding exhibited by the administration of Georgia Tech during this trying period of re-organization has impressed and encouraged the faculty and staff of Southern Tech. Without it the undertaking would have been much more difficult if - indeed - not impossible.

2. Class Size

<u>4-Quarter Total</u>	<u>10 or less</u>	<u>11-20</u>	<u>21-30</u>	<u>31-40</u>	<u>41 or greater</u>
Graduate	0	0	0	0	0
Undergraduate	85	470	304	86	26

Average Undergraduate Class Size = 21

3. Distribution of Highest Degrees Held by Faculty Members

Full-Time Faculty for Academic Year

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	4	4	0
Associate Professor	1	10	7	0
Assistant Professor	2	7	9	0
Instructor	1	5	5	0
Lecturer	0	0	0	1
Other	0	0	0	0
Total	<u>4</u>	<u>26</u>	<u>25</u>	<u>1</u>

Part-Time Faculty for Academic Year

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	1	0	0
Associate Professor	0	0	1	0
Assistant Professor	0	0	0	0
Instructor	0	4	5	0
Lecturer	0	0	0	2
Other	0	0	0	0
Total	<u>0</u>	<u>5</u>	<u>6</u>	<u>2</u>

Full-Time Faculty for Summer 1969

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	0	2	0
Associate Professor	0	5	5	0
Assistant Professor	0	4	5	0
Instructor	0	3	3	0
Lecturer	0	0	0	1
Other	0	0	0	0
Total	<u>0</u>	<u>12</u>	<u>15</u>	<u>1</u>



Part-Time Faculty for Summer 1969

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	0	0	0
Associate Professor	0	2	0	0
Assistant Professor	0	0	1	0
Instructor	1	1	3	0
Lecturer	0	0	0	0
Other	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	1	3	4	0

4. Graduate Work, Papers Presented, Research, Publications, Professional Activities, Gifts

- a. Graduate work (See blue cards.)
- b. Papers presented (See green cards.)
- c. Research activity (See yellow cards.)
- d. Publications (See white cards.)
- e. Professional activities (See pink cards.)
- f. Gifts (See orange cards.)

5. International Activities

- a. Faculty members with foreign assignments during 1969-70

India 5  
Saudi Arabia 1

- b. None
- c. Faculty not listed above with previous foreign experience

India 2  
Pakistan 1  
England 1

- d. None
- e. None
- f. None
- g. None
- h. None

Faculty

1. Number of instructional faculty 1968-69 ----- 55

- (a) Additions -- July 1, 1969 - June 30, 1970
- (1) New Appointments ----- 5
    - Ranakumar Nadella, Asst. Prof. - Physics
    - Charles M Cooper, Jr., Instr., - Physics
    - Julian R Lee, Instr. - Physics
    - Woodrow P. Greene, Instr. - Industrial
    - Douglas S. Black, Instr. - Industrial
  - (2) Returning from leave ----- 2
    - Herbert Eller (from India, NSF assignment)
    - Ralph Youngblood (Univ. Tenn., advanced study)
  - (3) Transfers from non-teaching positions ----- 0
  - (4) Total additions (1) - (3)-----+7
- (b) Deletions -- July 1, 1969 - June 30, 1970
- (1) Resignations ----- 2
    - Ozen Batum - Physics
    - Arthur Bleakley - English
  - (2) Terminations by Institution ----- 0
  - (3) Retirement ----- 1
    - C.A Arntson
  - (4) Deaths ----- 0
  - (5) Leave of Absence ----- 3
    - For full year:
    - Clifford Cowan
    - Frank C Taylor, Jr.
    - Alfred J Hunkin
  - (6) Transfers to Non-Teaching Positions----- 1
    - Jacob Kemeta
  - (7) Total Deletions (1) - (6)----- 7
- (c) Number of Faculty 1969-70-----55

2. List of those faculty members on leave during the whole or part of the year,

- (a) Cowan, Clifford W.  
September 1, 1969 through August 31, 1970  
Advanced study. Georgia Institute of Technology
- (b) Eller, Herbert (no middle name)  
March 31, 1970 through June 12, 1970  
To participate in the National Science Foundation Education Improvement Program in India as Supervisor-Coordinator of the Polytechnic phase of the program.

- (c) Fowler, Edgar T.  
March 30, 1970 through June 13, 1970  
To coordinate activities of four Civil Engineering Technology Institutes in India. Program sponsored by National Science Foundation.
- (d) Hunkin, Alfred J.  
September 1, 1969 through August 30, 1970  
Working indirectly for Army Corps of Engineers, teaching English to Saudi Arabians.
- (e) Taylor, Frank C , Jr.  
September 1, 1969 through September 1, 1970  
Advanced study. University of North Carolina

#### Reports of Departments

The Architectural Engineering Technology Department has conducted the following class problems:

- Design of a complex for Fire Institute
- Design of a fountain for the city of Marietta
- Design of a museum home for the "General" at Kennesaw Mountain Park.

The Civil Engineering Technology Department has a Wang electronic calculator and a Commodore electronic calculator to teach students the use of these machines in their course work.

The Electrical Engineering Technology Department has continued participation in the Technical Education Consortium for the development of a pilot program to serve the hiring needs of the computer and business machines industry. This department has also participated in courses for the Southern Railway Program.

The English Department has accepted the responsibility of teaching history subjects for students in the four-year program.

The Mechanical Engineering Technology Department has absorbed Air Conditioning Engineering Technology. Mr. C.R. Freeman assumed the duties of acting department head after the retirement of Mr. C.A. Arntson. In March 1970 Mr. L H Taylor's appointment as acting head of the department was approved by the Regents. This department has participated in courses for the Southern Railway Company.

The Physics Department completed the new physics shop and thus expanded the ability to repair and construct lab and demonstration equipment. The department sponsored a two-day visit of Dr. Cecil Shugart of the American Institute of Physics. Six members of the Department served as judges in the Cobb County Science Fair.

The Textile Engineering Technology curriculum was given full accreditation by the Engineer's Council for Professional Development. It is the only two year textile curriculum in the United States having this accreditation. The curriculum is being continually upgraded to keep abreast of changes in technology.

The Apparel Manufacturing option of Textile Engineering Technology has completed the installation of a high - pressure steam system. This department sponsored the visit of twenty members of the Garment Institute of Norway to Georgia and Southern Tech in March. The department also had a Southern Tech exhibit at the American Apparel Manufacturers Association meeting at Atlantic City, New Jersey, in May.

#### Counselor's Report

From July 1, 1969, to May 28, 1970, the counselor interviewed 708 persons interested in attending Southern Tech. A few faculty members and 231 students talked to the counselor about personal academic problems. There were 209 applicants and students who saw the counselor about financial problems. Eleven persons requested the test battery during this period. The counselor administered 118 CEEB tests, graded them, and reported results to the registrar's office. At the beginning of the fall quarter the counselor administered to 36 entering students a battery given system wide. In early winter he administered the Junior Engineering Technical Society's National Engineering Aptitude Search test battery to 38 high school students. The counselor has, in addition to his other duties, done an excellent job in public relations and publicity. The three events which evoked most publicity were the announcement of approval of the four-year program, the "Big Weekend in February, and the annual Bathtub Race in May.

#### Admissions Counselor's Report

The admissions counselor coordinated the College Night programs, arranging for Southern Tech representatives at 45 programs which were attended by approximately 460 students. In conjunction with the College Nights, he also arranged for Southern Tech participation in twelve high school panel assembly programs with representatives from other Georgia colleges. In February he conducted the "Big Week End" for 120 high school juniors and seniors interested in attending Southern Tech. In cooperation with representatives of the Georgia Power Company and the Georgia Highway Department, he arranged Southern Tech participation in assembly programs at 53 Georgia high schools. The program reached approximately 4,000 Georgia High school students. He mailed letters and literature to approximately 14,000 students in Georgia, Florida, South Carolina, North Carolina, Tennessee, and Alabama, using the Beta Club List, the Merit Scholarship List, and the University of Georgia List for names and addresses. He has visited in approximately 300 Georgia high schools, talking with counselors and sometimes individual students.

#### Placement and Co-op Department Report

The Placement Office is having some difficulty at present in counseling and placement of students and alumni because of the economic condition of industry. Until mid-winter there were more job opportunities than there were graduates because many graduates were going on to senior colleges or were enlisting in the armed services or were being drafted. With the change in the Selective Service System, more of the present students are expected to continue in the four-year program instead of accepting employment.

During the spring quarter 1970 there were 86 students on cooperative educational career programs. Contact with industry seems to indicate more and better programs to offer students; and the beginning of the four-year program will probably increase the demand for time and personnel in this area.

The Placement Office is also coordinating and administering the contract training for the Southern Railway System, and the work load in this area has increased.

The most urgent need of the Department is for space. The original design of the college facilities did not include space for placement conferences and interviews. The placement service to students has been one of the strongest influences in recruitment efforts and has been important to the image of Southern Tech to state and national industries.

#### Extracurricular Activities and Student Conduct

Two campus-wide activities were held. One was the dance held in connection with the Prospective Student Week-end in February, and the other was the Annual Bathtub Race and the dance following it in May. Both activities were highly successful and brought much favorable publicity to Southern Tech.

Radio Station WSTB has carried a fine program of music and has instituted the Dean's Corner to provide up-to-the minute information to dormitory students. The student newspaper, the Engineering Technician and the Yearbook, The Technician's Log were published as usual.

Student conduct as a rule was good for this time of strain and violence on college campuses. There were some actions that involved the police, but they were comparatively few. Thievery on the campus has been reduced, and indications are that the addition of fences and gates to secure the campus would reduce them still more.

Cooperation and understanding between the students and the administration have resulted in the addition of extracurricular activities and recreational facilities to occupy the students' time.

There were forty-two minor infractions which resulted in students' being placed on probation for a quarter, and nine students were suspended from the college for disciplinary reasons.

The basketball team placed fourth in the Georgia Junior College Conference, and the baseball team finished third. The golf team participated in several matches. Nine teams participated in the intramural basketball league during the fall and winter quarters.

The two tennis courts, the weight-lifting room, and ping pong tables in the gym were in constant use. A number of faculty members used the weight-lifting room and the gymnasium several times a week.

The basketball and baseball schedules for next year will include four-year colleges such as Mercer and Oglethorpe, since the four-year program will be in effect in the fall quarter.

Library

1. Number of volumes added during year -- 3,278  
Total number of volumes at end of year-- 19,621
2. The library now meets Southern Association standards for a two-year institution but will not meet them when the four-year program goes into effect in the fall of 1970.

Students

1. Student enrollment (see attached report.)

2. Degrees conferred during regular session of 1969-70

Associate in Engineering -----	238
Air Conditioning Engineering Technology -----	3
Architectural Engineering Technology -----	32
Civil Engineering Technology -----	43
Electrical Engineering Technology -----	61
Industrial Engineering Technology -----	73
Mechanical Engineering Technology -----	50
Textile Engineering Technology -----	26

3. Appraisal of academic work

Graduation Point Averages

<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>
2.42	2.48	2.53

Number of Graduates on Dean's list

49	63	36
----	----	----

Winner of Honors (Graduates)

8.6%	9.3%	18.0%
------	------	-------

Per Cent of Those on Cumulative Roll Who Graduated

16.6%	22.2%	16.7%
-------	-------	-------

Average SAT Scores of Fall Freshman for Three Years

V	M	V	M	V	M
400	471	412	477	402	473

Number Dropped Because of Academic Deficiencies

	<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>
Dropped	194	135	77
Probationary	205	173	86

4. Financial Aid

- a. The counselor discussed financial problems with 209 students, but it is impossible to estimate the number who withdrew for financial reasons, since most students who withdraw leave between quarters without giving reasons.

b. Categories of Aid

	<u>No. of Students</u>	<u>Total Amount of Aid</u>
Regents State Scholarships	16	\$ 5,065.67
Educational Opportunity Grants	7	\$ 3,315.00
Georgia Higher Education Assistance Corporation	48	\$ 35,117.00
Loans	146	\$ 7,855.50
Work-Study	11	\$ 3,710.25

3. International Students Enrolled Fall Quarter, 1969

a. Undergraduates

	<u>Name</u>	<u>Major Field</u>	<u>Country of Origin</u>
1.	Antich, Charles T.	Textile Engineering Technology	Venezuela
2.	Antich, Rene	Electrical Engineering Technology	Venezuela
3.	Bardi, Bruno	Civil Engineering Technology	Italy
4.	Carling, Brian	Electrical Engineering Technology	England
5.	Carrizosa, Alvaro	Industrial Engineering Technology	Colombia
6.	Danies, Ricardo	Industrial Engineering Technology	Colombia
7.	Egozi, Into	Electrical Engineering Technology	Cuba
8.	Engkaninan, Chalit	Civil Engineering Technology	Thailand
9.	Foster, Eugene G.	Civil Engineering Technology	Panama
10.	Gutierrez, Jose	Industrial Engineering Technology	El Salvador
11.	Hofman, Johannes	Industrial Engineering Technology	Germany
12.	Lacayo, Benjamin	Industrial Engineering Technology	Nicaragua
13.	Leano, Rafael	Mechanical Engineering Technology	Colombia
14.	Luciani, Jesus	Mechanical Engineering Technology	Venezuela
15.	Luciani, Luis	Civil Engineering Technology	Venezuela
16.	Lugo, Elizier D	Industrial Engineering Technology	Canal Zone



17.	Patel, Shashikant	Electrical Engineering Technology	India
18.	Patel, Vijay	Electrical Engineering Technology	India
19.	Peaster, Roger J.	Architectural Engineering Technology	England
20.	Pita, Luis G.	Industrial Engineering Technology	Cuba
21.	Prabhakar, Raymond J.	Electrical Engineering Technology	Pakistan
22.	Pulido, Roberto	Industrial Engineering Technology	Colombia
23.	Shah, Dinesh B	Mechanical Engineering Technology	India
24.	Ting, Kin-Kan Andrew	Electrical Engineering Technology	Taiwan, Republic of China
25.	Trivedi, Vishmukumar	Textile Engineering Technology	India
26.	Yardley, Richard R.	Industrial Engineering Technology	Germany

b. Graduate Students - None

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 INSTITUTION  
 Type of Enrollment: Regular  
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1969-70 ANNUAL ENROLLMENT REPORT

Summer Quarter 1969 --

I. Enrollment by Session and Cumulative Enrollment

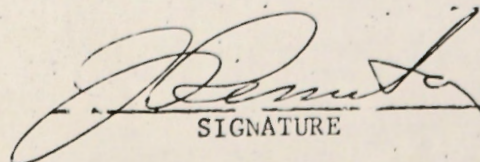
Enrollment First Session  
 Enrollment Second Session  
 Cumulative Enrollment

II. Cumulative Enrollment by Class Residence Sex. and Veterans Status.

Freshman	<u>265</u>	Residents of Georgia	<u>456</u>
Sophomore	<u>243</u>	Residents of Other States	<u>62</u>
Junior	<u>          </u>	Residents of Foreign Countries	<u>14</u>
Senior	<u>          </u>	Total	<u>532</u>
Graduate	<u>          </u>	Men	<u>524</u>
Professional	<u>          </u>	Women	<u>8</u>
Other Classification	<u>24</u>	Total	<u>532</u>
Total	<u>532</u>	Veterans	<u>76</u>
		Non-Veterans	<u>476</u>
		Total	<u>532</u>

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	<u>7,365</u>
Upper Division (Junior and Senior)	<u>          </u>
Graduate	<u>          </u>
Professional	<u>          </u>
TOTAL	<u>7,365</u>

  
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NOTE: Quarter Credit Hours for Army, Air Force, or Naval ROTC courses will not be reported except by the Fort Valley State College. Equivalent credit for basic physical education courses will be reported even though the institution does not record academic credit for these courses. Equivalent credit will also be reported for remedial and developmental courses offered regularly enrolled students.

Professional students are those enrolled in Law, Pharmacy, Veterinary Medicine, and Medicine.

Type of Enrollment: Regular  
OR  
In-Service

Academic Year 1969-70

I. Total Academic Year Enrollment

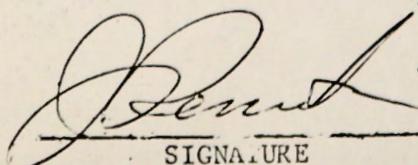
Enrollment - Fall Quarter	1061
Enrollment - Winter Quarter	926
Enrollment - Spring Quarter	983
Average Enrollment	990

II. CUMMULATIVE Academic Year Enrollment by Class, Residence, Sex, and Veterans Status

Freshman	633	Residents of Georgia	964
Sophomore	443	Residents of Other States	109
Junior		Residents of Foreign Countries	33
Senior		Total	1106
Graduate		Men	1092
Professional		Women	14
Other Classification	30	Total	1106
Total	1106	Veterans	159
		Non-Veterans	947
		Total	1106

III. Quarter Credit Hours for Which Students Enrolled

Lower Division (Freshman and Sophomore)	49,857
Upper Division (Junior and Senior)	
Graduate	
Professional	
TOTAL	49,857

  
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 SIGNATURE

## TWENTY-THIRD ANNUAL REPORT ON THE SOUTHERN TECHNICAL INSTITUTE

### 1. Progress of Southern Technical Institute during 1969-70

By far the most important change to occur this year has been the approval by the Board of Regents for Southern Tech to award the baccalaureate degree. Until this approval was granted in March, the faculty and staff of Southern Tech were spending a major portion of their time in committee meetings, curricula revision, visiting other colleges, and in general preparing supporting data for the proposal. Since the approval, the faculty and staff have been even busier with final curricula changes and the myriad of adjustments and changes necessary to convert to the four-year operation.

Because of the severe shortage of new funds this year, the addition of new courses necessary to a baccalaureate program has been held to a minimum. We are adding the following in the new catalog, however:

- Descriptive Geometry
- Graphical Solutions
- Technical Illustrations
- Electronic Drawing
- American and World History
- Probability & Statistics
- Computer Programming
- Differential Equations
- Chemistry of Air and Water Pollution
- Organic Chemistry I and II
- Biology I and II
- Nuclear and Radiation Physics
- Experimental Physics
- Astronomy
- Geology

Less than half of the above will be offered the first year with the remainder to be offered on an elective basis as student demand and faculty availability will allow.

Several existing subjects have been modified and reduced in hours to partially allow room for the previously listed courses.

Because of the continuing low enrollment of the Air Conditioning Engineering Technology program, it has been merged with the Mechanical Engineering Technology curriculum.

Southern Tech has conducted two air balancing training programs through the Continuing Education Department of Georgia Tech. A total of 41 students attended these 12-week night sessions. The program was requested by the Air Conditioning Contractors of Metropolitan Atlanta.

We continue to offer special courses for the Southern Railway System. During this year we have conducted nine Car Men Courses for a total of 163 students and three Electrician Courses for a total of 30 students. The former sessions were 8-weeks in length and the latter were of 17-week duration.

Our enrollment is budgeted for 1400 students for the Fall of 1970, an increase of 340 over the previous Fall. Because of the late approval of the Baccalaureate program, this enrollment figure may not be reached; however, it is believed that the Fall of 1971 prediction of 1800 will be met or perhaps exceeded. We do see a substantial increase in Freshman pre-registration for next Fall, and a majority of our graduating students have indicated their intention to continue their studies here.

We are hiring eight additional instructors this Fall to aid in initiating the Baccalaureate program, and it is anticipated that more than twice that number will be needed for the fall of 1971. This latter influx of instructors will require the provision of additional office space.

While our other needs for academic space are adequate for two or three years, we do have physical plant needs which will be made more acute by the Baccalaureate program.

1. A Physical Plant Building -- This building carries our highest priority at the moment because Physical Plant is now inadequately housed in an academic facility. The growing academic needs in this particular area make the provision of separate quarters for physical plant imperative.
2. Air Conditioning of the Gymnasium. Our gym, which was designed for the addition of air conditioning equipment, is completely unusable during the summer months. Because of this we are unable to add the physical education programs we need.
3. Student Center -- We have no place on the campus that provides adequate recreational facilities for our students between classes, or for meetings of departmental clubs or campus-wide student organizations. This need is urgent now and, as the student body grows, will become critical.
4. Athletic Field -- At the present time we have no athletic field on campus for intramural or intercollegiate activities. The lack of this as well as a stifling hot gymnasium makes the operation of a summer sport or recreational program impossible.

Faculty raises throughout the University System have been depressed for the last two years to the extent that salaries have not kept up with the rising cost of living. The Southern Tech faculty has not been happy with this development naturally; but they have accepted the situation philosophically. With the conversion to four-year status, however, they are well aware that their salaries will be substantially lower than other four-year colleges in the state. It is very important then, if we are to retain the well-qualified faculty that we have, that their salaries be adjusted upward as rapidly as possible to bring them in line. If we are not able to do this, we will lose the best qualified of our faculty, and rapidly. It is my firm belief that we have the best technical institute faculty in this country, and to lose a significant number "off the top" would be tragic.

The spirit of cooperation and understanding exhibited by the administration of Georgia Tech during this trying period of re-organization has impressed and encouraged the faculty and staff of Southern Tech. Without it the undertaking would have been much more difficult if - indeed - not impossible.

2. Class Size

<u>4-Quarter Total</u>	<u>10 or less</u>	<u>11-20</u>	<u>21-30</u>	<u>31-40</u>	<u>41 or greater</u>
Graduate	0	0	0	0	0
Undergraduate	85	470	304	86	26

Average Undergraduate Class Size = 21

3. Distribution of Highest Degrees Held by Faculty Members

Full-Time Faculty for Academic Year

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	4	4	0
Associate Professor	1	10	7	0
Assistant Professor	2	7	9	0
Instructor	1	5	5	0
Lecturer	0	0	0	1
Other	0	0	0	0
Total	<u>4</u>	<u>26</u>	<u>25</u>	<u>1</u>

4. Part-Time Faculty for Academic Year

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	1	0	0
Associate Professor	0	0	1	0
Assistant Professor	0	0	0	0
Instructor	0	4	5	0
Lecturer	0	0	0	2
Other	0	0	0	0
Total	<u>0</u>	<u>5</u>	<u>6</u>	<u>2</u>

Full-Time Faculty for Summer 1969

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	0	2	0
Associate Professor	0	5	5	0
Assistant Professor	0	4	5	0
Instructor	0	3	3	0
Lecturer	0	0	0	1
Other	0	0	0	0
Total	<u>0</u>	<u>12</u>	<u>15</u>	<u>1</u>

Part-Time Faculty for Summer 1969

	<u>Doctor</u>	<u>Master</u>	<u>Bachelor</u>	<u>No Degree</u>
Regents' Professor	0	0	0	0
Professor	0	0	0	0
Associate Professor	0	2	0	0
Assistant Professor	0	0	1	0
Instructor	1	1	3	0
Lecturer	0	0	0	0
Other	0	0	0	0
Total	<u>1</u>	<u>3</u>	<u>4</u>	<u>0</u>

4. Graduate Work, Papers Presented, Research, Publications, Professional Activities, Gifts

- a. Graduate work (See blue cards.)
- b. Papers presented (See green cards.)
- c. Research activity (See yellow cards.)
- d. Publications (See white cards.)
- e. Professional activities (See pink cards.)
- f. Gifts (See orange cards.)

5. International Activities

- a. Faculty members with foreign assignments during 1969-70

India 5  
Saudi Arabia 1

- b. None
- c. Faculty not listed above with previous foreign experience

India 2  
Pakistan 1  
England 1

- d. None
- e. None
- f. None
- g. None
- h. None

Faculty

1. Number of instructional faculty 1968-69 ----- 55

- (a) Additions -- July 1, 1969 - June 30, 1970
  - (1) New Appointments ----- 5
    - Ranakumar Nadella, Asst. Prof. - Physics
    - Charles M. Cooper, Jr., Instr., - Physics
    - Julian R. Lee, Instr. - Physics
    - Woodrow P. Greene, Instr. - Industrial
    - Douglas S. Black, Instr. - Industrial
  - (2) Returning from leave ----- 2
    - Herbert Eller (from India, NSF assignment)
    - Ralph Youngblood (Univ. Tenn., advanced study)
  - (3) Transfers from non-teaching positions ----- 0
  - (4) Total additions (1) - (3)-----+7

- (b) Deletions -- July 1, 1969 - June 30, 1970
  - (1) Resignations ----- 2
    - Ozen Batum - Physics
    - Arthur Bleakley - English
  - (2) Terminations by Institution ----- 0
  - (3) Retirement ----- 1
    - C.A. Arntson
  - (4) Deaths ----- 0
  - (5) Leave of Absence ----- 3
    - For full year:
      - Clifford Cowan
      - Frank C. Taylor, Jr.
      - Alfred J. Hunkin
  - (6) Transfers to Non-Teaching Positions----- 1
    - Jacob Remeta
  - (7) Total Deletions (1) - (6)-----7

(c) Number of Faculty 1969-70-----55

2. List of those faculty members on leave during the whole or part of the year,

- (a) Cowan, Clifford W.
  - September 1, 1969 through August 31, 1970
  - Advanced study. Georgia Institute of Technology
- (b) Eller, Herbert (no middle name)
  - March 31, 1970 through June 12, 1970
  - To participate in the National Science Foundation Education Improvement Program in India as Supervisor-Coordinator of the Polytechnic phase of the program.



- (c) Fowler, Edgar T.  
March 30, 1970 through June 13, 1970  
To coordinate activities of four Civil Engineering Technology Institutes in India. Program sponsored by National Science Foundation.
- (d) Hunkin, Alfred J.  
September 1, 1969 through August 30, 1970  
Working indirectly for Army Corps of Engineers, teaching English to Saudi Arabians.
- (e) Taylor, Frank C., Jr.  
September 1, 1969 through September 1, 1970  
Advanced study. University of North Carolina

#### Reports of Departments

The Architectural Engineering Technology Department has conducted the following class problems:

- Design of a complex for Fire Institute
- Design of a fountain for the city of Marietta
- Design of a museum home for the "General" at Kennesaw Mountain Park.

The Civil Engineering Technology Department has a Wang electronic calculator and a Commodore electronic calculator to teach students the use of these machines in their course work.

The Electrical Engineering Technology Department has continued participation in the Technical Education Consortium for the development of a pilot program to serve the hiring needs of the computer and business machines industry. This department has also participated in courses for the Southern Railway Program.

The English Department has accepted the responsibility of teaching history subjects for students in the four-year program.

The Mechanical Engineering Technology Department has absorbed Air Conditioning Engineering Technology. Mr. C.R. Freeman assumed the duties of acting department head after the retirement of Mr. C.A. Arntson. In March 1970 Mr. L.H. Taylor's appointment as acting head of the department was approved by the Regents. This department has participated in courses for the Southern Railway Company.

The Physics Department completed the new physics shop and thus expanded the ability to repair and construct lab and demonstration equipment. The department sponsored a two-day visit of Dr. Cecil Shugart of the American Institute of Physics. Six members of the Department served as judges in the Cobb County Science Fair.

The Textile Engineering Technology curriculum was given full accreditation by the Engineer's Council for Professional Development. It is the only two year textile curriculum in the United States having this accreditation. The curriculum is being continually upgraded to keep abreast of changes in technology.

The Apparel Manufacturing option of Textile Engineering Technology has completed the installation of a high - pressure steam system. This department sponsored the visit of twenty members of the Garment Institute of Norway to Georgia and Southern Tech in March. The department also had a Southern Tech exhibit at the American Apparel Manufacturers Association meeting at Atlantic City, New Jersey, in May.

#### Counselor's Report

From July 1, 1969, to May 28, 1970, the counselor interviewed 708 persons interested in attending Southern Tech. A few faculty members and 231 students talked to the counselor about personal academic problems. There were 209 applicants and students who saw the counselor about financial problems. Eleven persons requested the test battery during this period. The counselor administered 118 CEEB tests, graded them, and reported results to the registrar's office. At the beginning of the fall quarter the counselor administered to 36 entering students a battery given system wide. In early winter he administered the Junior Engineering Technical Society's National Engineering Aptitude Search test battery to 38 high school students. The counselor has, in addition to his other duties, done an excellent job in public relations and publicity. The three events which evoked most publicity were the announcement of approval of the four-year program, the "Big Weekend in February, and the annual Bathtub Race in May.

#### Admissions Counselor's Report

The admissions counselor coordinated the College Night programs, arranging for Southern Tech representatives at 45 programs which were attended by approximately 460 students. In conjunction with the College Nights, he also arranged for Southern Tech participation in twelve high school panel assembly programs with representatives from other Georgia colleges. In February he conducted the "Big Week End" for 120 high school juniors and seniors interested in attending Southern Tech. In cooperation with representatives of the Georgia Power Company and the Georgia Highway Department, he arranged Southern Tech participation in assembly programs at 53 Georgia high schools. The program reached approximately 4,000 Georgia High school students. He mailed letters and literature to approximately 14,000 students in Georgia, Florida, South Carolina, North Carolina, Tennessee, and Alabama, using the Beta Club List, the Merit Scholarship List, and the University of Georgia List for names and addresses. He has visited in approximately 300 Georgia high schools, talking with counselors and sometimes individual students.

#### Placement and Co-op Department Report

The Placement Office is having some difficulty at present in counseling and placement of students and alumni because of the economic condition of industry. Until mid-winter there were more job opportunities than there were graduates because many graduates were going on to senior colleges or were enlisting in the armed services or were being drafted. With the change in the Selective Service System, more of the present students are expected to continue in the four-year program instead of accepting employment.

During the spring quarter 1970 there were 86 students on cooperative educational career programs. Contact with industry seems to indicate more and better programs to offer students; and the beginning of the four-year program will probably increase the demand for time and personnel in this area.

The Placement Office is also coordinating and administering the contract training for the Southern Railway System, and the work load in this area has increased.

The most urgent need of the Department is for space. The original design of the college facilities did not include space for placement conferences and interviews. The placement service to students has been one of the strongest influences in recruitment efforts and has been important to the image of Southern Tech to state and national industries.

#### Extracurricular Activities and Student Conduct

Two campus-wide activities were held. One was the dance held in connection with the Prospective Student Week-end in February, and the other was the Annual Bathtub Race and the dance following it in May. Both activities were highly successful and brought much favorable publicity to Southern Tech.

Radio Station WSTB has carried a fine program of music and has instituted the Dean's Corner to provide up-to-the minute information to dormitory students. The student newspaper, the Engineering Technician and the Yearbook, The Technician's Log were published as usual.

Student conduct as a rule was good for this time of strain and violence on college campuses. There were some actions that involved the police, but they were comparatively few. Thievery on the campus has been reduced, and indications are that the addition of fences and gates to secure the campus would reduce them still more.

Cooperation and understanding between the students and the administration have resulted in the addition of extracurricular activities and recreational facilities to occupy the students' time.

There were forty-two minor infractions which resulted in students' being placed on probation for a quarter, and nine students were suspended from the college for disciplinary reasons.

The basketball team placed fourth in the Georgia Junior College Conference, and the baseball team finished third. The golf team participated in several matches. Nine teams participated in the intramural basketball league during the fall and winter quarters.

The two tennis courts, the weight-lifting room, and ping pong tables in the gym were in constant use. A number of faculty members used the weight-lifting room and the gymnasium several times a week.

The basketball and baseball schedules for next year will include four-year colleges such as Mercer and Oglethorpe, since the four-year program will be in effect in the fall quarter.

Library

1. Number of volumes added during year -- 3,273  
Total number of volumes at end of year-- 19,621
2. The library now meets Southern Association standards for a two-year institution but will not meet them when the four-year program goes into effect in the fall of 1970.

## Students

1. Student enrollment (see attached report.)
2. Degrees conferred during regular session of 1969-70

Associate in Engineering -----	288
Air Conditioning Engineering Technology -----	3
Architectural Engineering Technology -----	32
Civil Engineering Technology -----	43
Electrical Engineering Technology -----	61
Industrial Engineering Technology -----	73
Mechanical Engineering Technology -----	50
Textile Engineering Technology -----	26

3. Appraisal of academic work

### Graduation Point Averages

<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>
2.42	2.48	2.53

### Number of Graduates on Dean's list

49	63	36
----	----	----

### Winner of Honors (Graduates)

8.6%	9.3%	18.0%
------	------	-------

### Per Cent of Those on Cumulative Roll Who Graduated

16.6%	22.2%	16.7%
-------	-------	-------

### Average SAT Scores of Fall Freshmen for Three Years

V	M	V	M	V	M
400	471	412	477	402	473

### Number Dropped Because of Academic Deficiencies

	<u>1967-68</u>	<u>1968-69</u>	<u>1969-70</u>
Dropped	194	135	77
Probationary	205	173	86

4. Financial Aid

- a. The counselor discussed financial problems with 209 students, but it is impossible to estimate the number who withdrew for financial reasons, since most students who withdraw leave between quarters without giving reasons.

b. Categories of Aid

	<u>No. of Students</u>	<u>Total Amount of Aid</u>
Regents State Scholarships	16	\$ 5,065.67
Educational Opportunity Grants	7	\$ 3,315.00
Georgia Higher Education Assistance Corporation	48	\$ 35,117.00
Loans	146	\$ 7,855.50
Work-Study	11	\$ 3,710.25

5. International Students Enrolled Fall Quarter, 1969

a. Undergraduates

<u>Name</u>	<u>Major Field</u>	<u>Country of Origin</u>
1. Antich, Charles T.	Textile Engineering Technology	Venezuela
2. Antich, Rene	Electrical Engineering Technology	Venezuela
3. Bardi, Bruno	Civil Engineering Technology	Italy
4. Carling, Brian	Electrical Engineering Technology	England
5. Carrizosa, Alvaro	Industrial Engineering Technology	Colombia
6. Danies, Ricardo	Industrial Engineering Technology	Colombia
7. Egozi, Into	Electrical Engineering Technology	Cuba
8. Engkaninan, Chalit	Civil Engineering Technology	Thailand
9. Foster, Eugene G.	Civil Engineering Technology	Panama
10. Gutierrez, Jose	Industrial Engineering Technology	El Salvador
11. Hofman, Johannes	Industrial Engineering Technology	Germany
12. Lacayo, Benjamin	Industrial Engineering Technology	Nicaragua
13. Leano, Rafael	Mechanical Engineering Technology	Colombia
14. Luciani, Jesus	Mechanical Engineering Technology	Venezuela
15. Luciani, Luis	Civil Engineering Technology	Venezuela
16. Lugo, Elizier D	Industrial Engineering Technology	Canal Zone

17.	Patel, Shashikant	Electrical Engineering Technology	India
18.	Patel, Vijay	Electrical Engineering Technology	India
19.	Peaster, Roger J.	Architectural Engineering Technology	England
20.	Pita, Luis G.	Industrial Engineering Technology	Cuba
21.	Prabhakar, Raymond J.	Electrical Engineering Technology	Pakistan
22.	Pulido, Roberto	Industrial Engineering Technology	Colombia
23.	Shah, Dinesh B.	Mechanical Engineering Technology	India
24.	Ting, Kin-Kan Andrew	Electrical Engineering Technology	Taiwan, Republic of China
25.	Trivedi, Vishnukumar	Textile Engineering Technology	India
26.	Yardley, Richard R.	Industrial Engineering Technology	Germany

b. Graduate Students - None

Please return one copy to:  
 Maskin R. Pounds  
 44 Washington Street, S.W.  
 Atlanta, Georgia 30334

Southern Technical Institute  
 INSTITUTION  
 Type of Enrollment: Regular  
 OR  
 In-Service

1969-70 ANNUAL ENROLLMENT REPORT

Summer Quarter 1969 --

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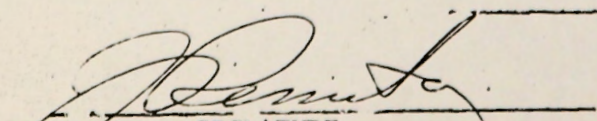
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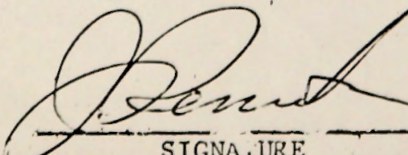
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Archives

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