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1922

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President of Georgia School of Technology
1907-1922
To

Kenneth Gordon Matheson

Retiring

President of Georgia Tech

faithful friend, advisor, and counselor to all true Tech men, who has worked earnestly and effectively for the last sixteen years for a greater Georgia Tech, having wonderful success through tireless days of eager constructive work, and administrative effort; one who has carefully watched and fostered the growth of our great college and who is now called from its leadership to another position, to the deep regret of the Faculty and Student Body; to him, is this, the fifteenth volume of the Blue Print, respectfully dedicated.

—by the Editors.
In Memoriam

George Washington Adair

September 11, 1879   November 5, 1921

Prominent Georgia Tech alumnus and pioneer real estate man of Atlanta, a real sportsman, and a loyal, unselfish and devoted friend of our college.
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IF, in this fifteenth volume of the Blue Print, the staff has succeeded in making up one of the best annuals ever published at Georgia Tech, then we feel that our labors have been well rewarded. At least we hope the 1922 Blue Print will be a credit to our college and a true blue print of its campus life and activities.

The Blue Print, each year, should be obtained by each and every loyal Tech man, in order that in the years to come, it may serve as a fitting memoir of the college life and happy days spent at Tech. It was with this idea in view that the Staff has worked patiently and earnestly, and we hope that our efforts have been successful. If this 1922 Blue Print, in the years to come may serve to bring one happy heart throb to any of the present Student Body, the Staff will be satisfied.
Back again in dreams I wander
To the times that used to be,
When within Tech's portals dwell
My friends all dear to me.
The firelight's flickering shadows
Couch scenes to my youth most dear;
The columns of Swann outstanding
In silvery moonlight clear.
Now the noonday sun is shining,
Gleaming bright through the past decades,
The Library's form in bold relief
Emerges through emerald shades.
I can see myself a-wanderin'
On the campus from place to place,
And I live o'er the happy scenes of yore
Recalling each smilin' face.
But soon the spell was broken,
I saw the vision fade,
Then with emotion vibrant
This covenant I made:
"While thy spirit burns within me,
Yea, and that will forever be,
So long my Alma Mater
I will be true to thee."
A BIRD'S EYE VIEW OF THE CAMPUS

THE CAMPUS AFTER A LIGHT SNOW
THE BLUE PRINT

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Head of Architectural Dept.

Prof. Clarence Bernard
Head of Textile Engineering Dept.

Prof. John Madison
Head of Commercial Dept.

Twenty-one
Department of Electrical Engineering

The Electrical Engineering course constitutes one of the most important parts of Georgia Tech and has a building of its own in which to function. The course is one of the most thorough to be found and is designed to be thorough without being "bunched." The laboratories and class work are so arranged as to be about equally distributed throughout the course. Unlike many of the departments, this one offers no special course, the subject being too broad to be covered in two or three years. The only course is one of four years' duration leading to the degree of Bachelor of Science in Electrical Engineering.

The department is comparatively well equipped, having a building of its own, practically all of which is fitted up with electrical apparatus and lecture rooms for this course. Even with all this room the department is filled to capacity and will need more room in a very few years.

Going deeply as it does into the subject of modern electricity, the course is one of the most difficult offered at Tech, and a man who follows this course through to graduation is sure of having a thorough training in all phases of electrical engineering.

Department of Mechanical Engineering

When Georgia Tech was founded there was only one department, which was what is now the Mechanical Engineering Department. The institution was little more than a school for training along shop lines for vocational pursuits. The school worked under a contract system, on which they entered into competition with commercial concerns. This was one of the chief sources of revenue for the school and gave the students a chance to produce articles that were salable. There were several disadvantages to this system, chief among which was trouble with the Labor Unions, and the system was abandoned.

From time to time other departments were added and the scope of the school broadened. Less and less time was given to shop work and more to the theoretical side of engineering. In the past decade the field of this department has been greatly widened and now a complete course in Mechanical Engineering is offered. Naturally the question arises just what does this field cover? First of all, a mechanical engineer must be able to grasp and solve mechanical problems; in order to do his work in designing he must be an expert draftsman; he must be thoroughly familiar with shop methods and limitations. In order that he may have this knowledge he must know physics, mathematics and chemistry and must have a command of English, as well as the actual shop experience.

The worth of this department is demonstrated by its many graduates, who may be found in all parts of the world, doing honor to Georgia Tech by their achievements in the field of mechanical engineering.
Department of Civil Engineering

His department, which is one of the oldest at Georgia Tech, offers a very complete course in Civil Engineering. Civil Engineering is a profession very broad in its aspects, necessitating thoroughness, neatness and accuracy to a high degree. In order to be successful it is necessary for a civil engineer to be thoroughly familiar with mathematics, mechanics, chemistry and physics and all the fundamentals of engineering, as well as to be a neat draftsman and a careful computer. As particular attention is paid to these things at Tech, the course is obviously a good one.

With the ever-increasing use of the automobile the need for good lasting roads is also increasing. As a result there is an almost unlimited field for highway engineers. For this reason this phase of the work is stressed particularly and special attention is paid to field and laboratory instruction in the finer points of road construction. There are many opportunities for the graduate to step into good positions in road building, and the chances for advancement are numerous.

A great deal of attention is paid in the course to sanitary engineering, an important subject with every city in regard to its sewerage disposal problems. Special laboratories for bacterial analysis and for the study of purification methods are at the disposal of the students. The number of students enrolled in this department is comparatively large and is increasing rapidly. The department is well equipped and has ample facilities for thorough instruction in Civil Engineering.

The Department of Architecture

In 1908 the Study of Architecture became a course at Tech. The degree awarded for completion of the four-year course is that of Bachelor of Science in Architecture. A great deal of practical work, combined with the necessary theory, rounds out the course into one of the best offered by colleges in this country. In addition to the regular course there is a special two-year course which is purely architecture, including none of the English, mathematics and chemistry to be found in the regular course.

The enrollment in this department has been increasing yearly until it has become necessary to add a new building for this work. This building is to be the first one erected as a result of the Greater Georgia Tech Campaign. With these added facilities the department is expected to flourish.

In the second term of the senior year each student makes a thesis design, the subject being passed upon by the professor. Whenever possible the same design is used as is given out by the Society of Beaux Arts Architects. These designs are judged in New York with other designs from other schools of architecture all over the country. Heretofore Tech has shown up extremely well in these contests, and nearly every year some senior has taken first, second or third place and won honorable mention. The past success of this department is an indication of great results to be accomplished in the future.
Department of Chemistry

The Department of Chemistry is one of the most important in the school. With the exception of Commerce, every course at Tech includes at least one year of Chemistry. In addition to this is the regular four-year course in Engineering Chemistry. This course is one of the best to be found for preparation for work as a manufacturing chemist. A general knowledge of shop work and drawing is also gained in this course. Some electrical engineering and higher mathematics, together with the chemistry taught, give an excellent opportunity in chemical manufacturing, a field which is constantly broadening.

The department has been established for a long time, and under the leadership of Dean Emerson is making rapid strides. The number of students taking the four-year course has never been very large, partly on account of the long and confining hours in the laboratory, necessary to give the practical side. The few who graduate in this course, however, have heretofore met with surprising success. In addition to these students in the regular course, those taking the course in Textile Engineering are required to take a great deal of advanced chemistry in this department.

The degree awarded for the four-year course is that of Bachelor of Science in Engineering Chemistry.

Department of Textile Engineering

The Textile Department of Georgia Tech was founded in 1899 and furnished the first opportunity for southern boys to obtain instruction in the manufacture of cotton goods without having to go to other parts of the country. Since its installation the department has grown constantly. The leading cotton manufacturers of the South, with remarkable foresight, donated machines and money in order that they might be assured of trained men for their factories. Many others, including cotton machinery concerns, gave valuable machinery.

Through these gifts and additions made by the school the department has accumulated such a variety of machines for the manufacture of textiles that they are able to carry out the entire process from the bale to the finished fabric. The yarn required in the weaving rooms is made in the carding and spinning departments.

It is most unfortunate that so much of the cotton grown here has been sent East to be made into cloth and then sent back and sold here at enormous profits to the eastern manufacturers. The trouble has been the lack of skilled manufacturers here. Georgia has abundant water power and untold natural resources. With the advent of trained men into the textile industry in the South there is no reason why the South should not have the benefit of her own products.

Tech has already sent many men into this field, with ever-increasing results. This department at Tech has become the most complete course in Textile Engineering in the Country. We are proud of it and look to it as a great factor in the future of the textile industry in the South.
The School of Commerce

At the present time the business conditions, especially in the south, are not as good as they might be. In order that these conditions may get back to normal as soon as possible, men who know the ins and outs of business in all its phases must take the reins; men who can see what needs to be done and also know the best and most efficient way to do it. Men of this type are not easily found. It takes a thorough training to acquire this ability and there are two ways of getting it. One is by long experience and the other by proper education. The first is at once inadequate and will do little toward alleviating the present crisis. It is therefore to the man with the education that we must turn. The School of Commerce at Georgia Tech is doing its best to give that training which is necessary in the most compact and efficient manner that is possible.

The school operates both a day and night school; the former conferring a degree of Bachelor of Science in Commerce for four years work, and the latter a degree of Bachelor of Commercial Science for two years work combined with two years of practical business experience.

The Co-Operative Plan

This plan has been offered by Georgia Tech for the last ten years and is continually becoming more and more popular. It gives the man who must support himself while getting his education a fair chance to go through college and make out with his finances also. The course extends over five years and the men alternately work and go to school. One man has a job at which he works for four weeks while his partner goes to school. At the end of that time they change places and in this way a man is able to earn enough to put him through school and get good practical experience on the side.

There are two courses offered: a course in General Engineering which is a combination of Electrical and Mechanical Engineering and gives a degree of Bachelor of Science in Engineering, and a course in Textile Engineering which confers the degree of Bachelor of Science in Textile Engineering, Co-operative Plan.

The Department Of Automobile Engineering

This department comes under the jurisdiction of the Department of Mechanical Engineering and the course is identical up until the senior year when automotive subjects are substituted for the Steam Engineering subjects in the regular Mechanical course. The degree conferred is Bachelor of Science in Mechanical Engineering.

The object of the course is to fit a young man to enter the automobile industry. The subject is gone into thoroughly and the course is recognized as an excellent one.
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