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CHEMICAL SOCIETY VISITS DYE WORKS

Twenty Members Watch the Progress of Cotton Cloth From the Raw Material to the Finished Product

— Trip Proves to be Very Interesting

ANOTHER TRIP TUESDAY

The second trip of the Chemical Society this week was taken to the Middlesex Bleach, Dye and Print Works. The twenty members taking this trip first visited the storehouse, where the raw cotton, which is received in large bales, is sewed into continuous belts. These belts are then taken to the washing room, where they are passed through baths of milk of lime, water, and finally dilute sulphuric acid.

From the washing room the men followed the cloth to the bleaching room, where it was passed through a solution of bleaching powder until the desired whiteness was obtained. The action was then checked by several washings. The next operation was that of drying the cloth which was done in large machines consisting of several drums filled with steam.

The men were then conducted to the print house. Here the various aniline dyes were mixed with suitable mordants and printed on the cloth by offsetting from engraved copper rolls. By running the cloth through the machine several times, it was possible to print a design containing as many as five different colors. The cloth was then

followed to the ageing machines, where the color was aged by means of superheated steam.

The group was next shown through the engraving room, where the solid copper rolls used in printing are made. The first step in engraving these rolls is coating them with varnish. These varnished rolls are then put in very accurate machines which scratch the designs through the varnish by means of sharp diamond points. The rolls are then immersed in strong nitric acid, which attacks the places where the varnish has been removed. From here the men were taken to the dye house, where both jig dyeing and box dyeing were seen. The system of ventilation for removing the moisture from this department was especially ingenious.

The trip was completed by a visit to the finishing room. Here the cloth was starched, ironed and in some cases given a glossy finish by the use of friction rollers.

Since this trip proved to be so interesting and instructive, another has been arranged for Tuesday, December 12, when another twenty men will have the opportunity of seeing this plant.

TECH MEN LEAD AGAIN

New Filming Process Shows Actual Colors of Nature

The amusement world can now thank Technology again for presenting one of the greatest improvements which will revolutionize the motion-picture business. After many attempts a process has been discovered which will make color motion-picture photography possible.

The Technicolor process, as it is called is the work of a Boston firm of engineers and scientists, Kalmus, Comstock and Wescott, Inc. The members of this company and many of their employees are Technology graduates. Dr. Herbert T. Kalmus was formerly a member of the Institute staff; Dr. Daniel F. Comstock is at present a professor in the department of Physics, while Mr. W. Burton Wescott has been engaged in the design of technical apparatus for some years.

The purpose of this Technicolor process is to take motion pictures in their natural colors. There is another improvement for the moving picture which comes as a result of this process, and that is, it gives a depth of perspective. This company has also developed a new arc light which may be relied upon for steadiness. The Technicolor horizontal magnetically controlled arc light gives approximately one-third more light for the same current than the standard vertical arcs.

A portable laboratory has also been established that is an example of the expense which the company is going to in order to make the new pictures a complete success. By means of this laboratory, each day's work is developed and projected at once so that the film can be studied and retaken in such parts that are faulty while still on the grounds. The laboratory consists of a Pullman car which has been made over to do all the work of a developing plant. The car is completely equipped, containing all the necessities for the production of the finished film.

The public will be able to view the results of the discovery of Kalmus, Comstock and Wescott in about three months.

GEOLOGISTS TO DISCUSS THE FUTURE OF GOLD

The M. I. T. Geological Conference will hold its third meeting of the year this afternoon at 4.15 o'clock, in Room 4-345, when Professor W. Lindgren will present two subjects for informal discussion. The subjects will be "The Future of the Gold Production of the World" and "The Ceramic Laboratory at Urbana, Ill."

FRESHMAN BARBERS BUSY

Class Spirit Against Freshman Moustaches

An astute freshman decided to raise a moustache four weeks ago and thereby hangs a tale. Let us call our friend Henry. Now although Henry had never grown a moustache in all his life, that matter didn't hold him back in the least. He went to work cultivating his little facial scenery, and was the recipient of many complimentary remarks from his classmates during the growth from infancy to maturity. It is said that even some of his instructors looked at him a little more than usual. Wherever you went they were talking about Henry's moustache. Then it stopped.

In a few days the news leaked out and strangely enough reached Henry's ears several times that a special Ukulele Club was to give a concert last Wednesday noon in the Locker Room near the Caf. It seemed strange to Henry, but everybody was going down, and after being prompted by a freshman who seemed to have the concert very much at heart, he went to the Locker Room with him.

Meanwhile hundreds of freshmen had assembled in the appointed place so that it was crowded to full capacity. There were no musicians there, but there were two freshman barbers and a strong arm brigade as entertainers. The barbers stood near the wash basins. One held a razor honed to the limit. The other was forming a lather by means of a brush, a mug, soap and water. All those in the room were talking loudly and it seemed very much as if something was due to happen. Someone cried, "Here he comes," and up went a mighty cheer.

The strong arm squad seized the surprised Henry unceremoniously as he entered the door and brought him to the barbers, who went to work amid a deafening yell. The strong arm squad worked hard and efficiently. Henry's struggles were to no avail. Off went his moustache and the freshmen cheered loudly. Some lay in corners overcome by their hilarity. The demonstration was soon over but the lesson will long be remembered.

TECHNIQUE 1918 STATISTICS

Statistic blanks have been mailed to every member of the Junior Class, classified or unclassified. In order to make the book successful, the Managing Board of Technique wishes every man to do his part and to fill out these blanks with the most definite information possible. A volume of Technique 1918 will be given gratis to the man handing in the best set of answers.



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(Continued from page 1)

members. In several instances, these men would give a long description of some apparatus without making it clear to the audience. Dr. Rogers would then explain it clearly in a few words, a good example of the wonderful ability of the latter.

In 1861 Rogers made an appeal to the Massachusetts Legislature for four city blocks upon which to build the Institution. He was unsuccessful and much discouraged. However, in 1863 he again made an appeal to the Legislature and won, but was only granted two thirds of a city block. On January 1, 1865, the Institute opened with one student, Eli Forbes. Professor Richards said he himself entered the Institute that February. He then gave many amusing incidents in the early school life, laying especial stress on his former instructor, Mr. Watson.

The Technology Quartet then sang a song and were enthusiastically applauded.

Mr. Litchfield was the next speaker. He said it was a pleasant sight to him to see the students pay tribute to the memory of the founder. He said he knew Professor Rogers for a short time and entered the Institute at the time President Walker was inaugurated. He added that he was reporter on The Tech at the graduation exercises when Professor Rogers fell dead. He described the calamity in the following abstract taken from Volume I of The Tech:

"Whether by accident or by design the clock had been stopped and the hands in mute prophesy pointed to noon. At that hour President Walker arose, and in introducing Professor Rogers delivered what, in the light of succeeding events, proved a most fitting eulogy. It was a tribute of esteem and affection which found an echo in every heart. Professor Rogers was visibly affected at this renewed evidence of the regard in which he was held by the instructors, pupils, and friends of the Institute; he arose, assayed to speak, but his voice was low and tremulous, and it was some moments before he recovered self-control. The first few sentences, in which he referred to the kind words of President Walker, were scarcely audible beyond the stage. He referred to his connection with the Institute, which began even while the diurnal tide was flowing over the spot where the building now stands. The theses, he said, were not intended to

be literary productions garnished with the flowers of rhetoric, but the result of personal investigation in the laboratory and the workshop, and were of real value as additions to our knowledge.

"He spoke of the absence of music and flowers. 'Our exercises are simple,' he said, 'and we are proud of our simplicity.' There was a time when wide distinction existed between science and practical art, but now ideas had changed and they were considered one and inseparable. He began to speak of the experiments of Stephen with illuminating gas, when he suddenly stopped and bent low over the desk as if consulting notes. Those about him, however, knew that he had none; and the suspicion was just beginning to dawn on them that he might be ill, when without an instant's premonition he fell upon the platform.

"He was tenderly lifted and carried to the lecture-room of Professor Runkle, where everything possible was done to restore him, but without effect.

"Professor Ordway returned to the platform a few moments after, and amid the most profound silence distributed the diplomas and dismissed the audience, the larger part of which remained in the halls to ascertain the result of the fall. Silently they dispersed, and an unusual stillness, like that of death, pervaded the building—a stillness that will long be felt."

TECHNOLOGY MONTHLY

The December number of the Technology Monthly Engineering Journal will be out next Tuesday and will contain the second installment of the series on the Electromagnetic Spectrum; a new series on illumination; an article concerning the Hanover Street Bridge at Baltimore, Md., and an article on the Laboratories of the Electrical Department of M. I. T.

UKULELE CLUB ORGANIZES

Eleven men interested in the formation of a Ukulele Club gathered last Wednesday afternoon in answer to the call for members. Seven men with Ukuleles and four with guitars were present. Manager Kingsbury of the Musical Clubs announced that the Ukulele Club would give a number on the program of the Winter Concert. He also said that any other men who play ukuleles or guitars would be welcome.