PHYSICAL BASIS OF HEREDITY DISCUSSED

Prof. E. B. Wilson of Columbia Says Machinery is in Germ Cells

CHROMOSOMES DESCRIBED

Large Audience Hears Lecture Before Society of Arts in Hunt Hall.

Yesterday afternoon at 1 o'clock in Engineering B, Mr. Cooper, a Tech student of the class of 1911, gave a most interesting illustrated lecture on the terminal developments in the Pennsylvania Railroad at New York, which was enthusiastically applauded by the full audience. Mr. Cooper, who has been connected with the road since his graduation, part of the time as the secretary of the Board of Control, has, by the way the great task was planned and executed, was excellently fitted to talk on the subject, and his talk was enlivened by the fact that almost present fully were reap for attempting. In considering this subject, the speaker followed the Pennsylvania Extension from New York to the Hackensack Meadows, into the tunnel under the North River, to the North River tunnel, that then, on the other end of the Hackensack Meadows, ran through the hard rock of which the Hudson Palisades are composed, then on through the East River tunnel to the terminal yards on Long Island. The North River tunnel, of two single track tunnels, is parallel with the experimental tunnel on the eastern edge of the Hackensack Meadows through the hard rock of which the Hudson Palisades are composed; excavation along the length of it was started from the two ends and both ways from two shafts, one at Weehawken, and one on the Manhattan shore, and continued to a meeting point between. When the excavation emerged from the hard rock, it was near the surface, and a serious collapse occurred about this necessary use of compressed air. After the tunnel on the bottom of the river a cylindrical steel lining was built as the tunnel progressed; the shield was withdrawn and the right of way excavation from the long of the tunnel erected, and the slight, which is the盾 still in front of the tunnel, was removed in cars. At the end of the excavation, a concrete lining was built with the whole length of the lining, and the lining extended in a slighter lower than the edges of the car window, and was built to a considerable height for anyone who might be in the tunnel. For the terminal station and train sheds it was necessary to remove two and one-half million cubic yards of material, an area of twenty acres. One of the difficult engineering foibles was to support 7th, 8th, and 9th Avenue, so that the excavation could be carried on without interrupting traffic. The basis station building, covering eight and one half acres, has received so much attention in the public that it is unnecessary to speak of it. From the artistic design, magnitude of the project, and the cost of the undertaking, that is represented, the height, the length, and the deep of the structure, there is an effect, is also a great height for the tunnel, for the station, and for the power for the interlock system of electric trains. At Long Island City, on the water front, is the power station for the electric lines to the electric doors for the tunnel; this plant has all the best facilitate for handling the whole load, including the automatic stopless.

As follows: After converging to another double-truck tunnel, continues beyond the Pennsylvania Railroad tunnel under the East River, where the soft soil begins, the tunnel is constructed of caissons to support the track over the great terminal yards. In these Sunnyside yards, as they are called the annual passenger capacity of the terminal yard is 15,000 cars, with 75 miles of track by an elaborate system of control, signaling, and inspection, the passenger and accommodation cars are easily to be taken care of, by water, ice, gas, etc., and kept in repair.

Mr. Cooper, M.I.T., '97, Explains Tunnel Construction

ILLUSTRATED BY SLIDES

Large Audience in 11 B Applauded The Speaker Warmly.

At the Union last night, the rocks of the laurel and laughter of the audience were off and a good time. The event of the evening was the growth of good and otherwise, and some surprisingly good bits were introduced. While waiting for the festivities to commence, "Bill" Saljidie came before the audience and outlined the athletic situation as it is, at the Institute at present and pleaded for the support of under-graduates. He spoke particularly of the spring crack and pointed out that the Institute is in the race, the best chance of years. His remarks were well received.

The opening stunt of the evening was a song by F. H. Asbury, who dwelt upon the plan. He made a clever escape from the hook but the limelight tempted him again and when he was on the point to "come out" the audience gave him a warm cheer on his behalf. The Newbury Washing hooligan next made a spectacular debut and removed what might, with compassion, pass for "Hiawatha". The hook made a few vain attempts to remove this ambitious "Frodo" which was seen in ignominy before the cries of "Hook, Hook, Hook!"

Two new classes in journalism will be started by the English department of Ohio State during the year 1911-1912.

The welding teams at Columbia are so numerous that seven teams have been employed to weld the ships in the above mentioned cases.

The dramatic society at Mr. Holyoke has chosen Oscar Wilde's "The Importance of Being Earnest," for presentation at commencement.

Engineering students of the University of Minnesota are constructing an elevated track three miles long to be used for experimental purposes.

Vassar, through its student council, has passed legislation prohibiting any student in the institution for the first time, from taking part in any outside interests, if she has any conditions. Wells college has chosen practically the same thing.

Columbia University, which has always shared its pride in being a unity of learning from cheating in examinations, has abolished this completely system and is going to use the honor system in all departments.

Yesterday afternoon, the final try-outs for the music to appear in Tech Show 1911, were held. The work submitted, in every case, showed a marked improvement over the former attempts and in many cases, it became very difficult to choose the best out of a number of selections. A large number of men write music, all of which was creditable. Those who were not successful this year will have a new fund of experience and knowledge which may help them in the future.

The aim of the Show has been to procure the best possible music for the year. As some of the men in a marked degree to the others, the list of successful names is rather short. Mr. Greely B. Dennison, alone has written no less than seven of the songs. These join with the opening choruses, with which Mr. Dennison has been more successful than he was last year.

Mr. Petts is also to be highly complimented for his song "French Fling." He makes a close second to Mr. Dennison having carried off the honor in five of the songs. Mr. Petts will be remembered for his successful combination "Tourists in the Queen of the Camillas Isles." Praising by his former experience, he has written some very good things this year.

Pierce, Creaser, Fuller and Fales, are also new as far as Tech show music is concerned. Their work, however, is fully up to the standard of the rest. And with the exception of the final of Act I, it is probably nearer to the finale of Act III will be a mediocrity composed of sound but not sung during the play.

B. L. Denshine, O.B. Denshine, Opening Chorus Act III B. Dennison, Dennison, Dennison, Dennison, Dennison, Dennison.

The director's story, O.B. Dennison. Dennison, Dennison, Dennison, Dennison, Dennison, Dennison. B. L. Denshine. Dennison, Dennison, Dennison, Dennison. B. L. Denshine. Dennison, Dennison, Dennison, Dennison, Dennison.

Every Juliet Has a Romeo.


Such a Happy Disposition.


Be Moderate.

C. C. Pierce, C. C. Pierce.

How You Think It Of Me.

C. C. Pierce, C. C. Pierce.

The Easiest Thing You Know.

C. C. Pierce, C. C. Pierce.

Be Moderate.

C. C. Pierce.

I Can't Even Think of It.

C. C. Pierce.

I'll Be Down in a Minute.

J. C. Fuller, J. C. Fuller.

If I Could Only Talk Like That.

J. C. Fuller, J. C. Fuller.

These songs show a marked improvement both in originality, and execution as well as in performance. Mr. Greely B. Dennison, an able orchestra, they should reach the highest standards of the best. Both the songs, and Tech Show 1911 are to be congratulated.

The outcome of the combination of the library with music is expected by the most greatly appreciated by the student body.

Twenty cts a day is the line at Minnetonka for latest registration.
THE TECH
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SATURDAY, MARCH 4, 1911
INTERCOLLEGIATE NEWS

—Lacrosse is being abandoned at Columbia on account of loss of interest on the part of undergraduates.

—Baseball practice has started at Pennsylvania. Eight pitchers and five catchers are opening the season's work. The veterans out are Captain Schutz, Marshall, Perry, Thompson, Conner, and Hancock. Practice is held at 12.30 daily.

—On account of the lack of severe winter, Stanford's track team is already out on the field. A few cinder path queues have been put up over the opening of college in the fall but the official training begins at this time.

—Plans are under consideration by the Essex Club at Penn to eliminate undergraduate publications at that institution, all advertising that is in a mercurial or questionable character.

—Certain Chinese undergraduates at the University of Washington have assembled January 30, according to the Occidental Intelligencer, as a day to review old queues. A big celebration is to be given at the public and official undergraduate ball cut.

The receipts this fall for football at Yale were about $70,000. The Harvard game showed about $34,000.

The University of Calcutta, the largest educational corporation in the world, examinations 10,000 students a year.

COMMUNICATION

Dear men alive:
I am with you again! The good editor of The Tech was most pleased to lend me the space to address you: in fact, he was tickled to death with the idea.
Do you know, all day Thursday The Tech office was stopped with an eager band of readers who kept the "bored" of editors busy answering "I don't know" to their endless queries of "What's this that's coming off on the seventeenth?" "Who are the Chocolate Soldiers?" and "What are they going to do?"

Gentlemen, do not bother The Tech breed. Believe me, they know no more about the Chocolate Soldiers than you do, and they are just as anxious to learn more. Why, I actually believe, that by next week they'll be buying tickets to their own benefit.

Perhaps you don't know what I am talking about. Perhaps you didn't read Thursday's issue. If so, the real live people please pardon me while I repeat for the benefit of a few temporarily asleep, our recent

ANNOUNCEMENT EXTRAORDINARY

"It has been resolved by the Chocolate Soldiers Minstrel Company that they, the Chocolate Soldiers, shall positively appear in full force in their sixty-minute 1911 production at the Tech Union on the night of Monday, March 17 for the benefit of The Tech, the price of one admission ticket to be thirty five (35) cents."

Our regular show which we were to give in the New York Hippodrome this month we do not consider quite good enough for Tech, so we have decided to supplement it with a host of lilacenton, scintillating brand-new features. We want you to know about all these and we shall therefore keep you informed daily as to the latest developments within the dark circle of the Chocolate Soldiers. The editor has promised to devote this space to whatever the Chocolate Soldiers may have to say: so, beginning Monday you will find here, under the head-"Minstrel Dope for the Day"—quite the proper bit of light reading to begin the day with.

Don't let a bad Hook Night, Was it? Quite a numerous audience, too. You see we have talent here and a few live ones to support it, after all. So book our for Chocolate Soldier Night, keep your hair in mind, and there's a little hop just get your ticket early—we'll have them ready for you next week.

Yours,
The Advance Agent.

The classes of West Virginia State have abolished class colors and hereafter students will wear only the college colors.

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Men's Tan Cape Gloves in either medium, light or dark shades, Pique and Prize seams.

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Men's Mocha Gloves different shades both for street and dress wear.

From 1.50 to 2.50

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Greeley & McIntire
INTEGRATED WASHINGTON, D. C.
BOSTON MAY GET THE BIG LINERS

Piers can not be Built in New York Long Enough to Accommodate Them
SEEK NEW PORT OF CALL

It was learned here yesterday that the government had refused permission to the large steamship interests in New York to extend their piers into the Hudson River 1000 feet. The decision makes it practically necessary to the lines, which are now constructing vessels over 900 feet long to seek some port where such restrictions do not exist. Already Boston is being given serious consideration as no such restriction exist here and there is already in existence here a port long enough to accommodate two of these individuals now under construction or in contemplation.

The Commonwealth is 1200 feet long and 300 feet wide with a mean depth of 35 feet and there is plenty of room for eleven more such long piers in South Boston.

The application before the harbor board of the engineers corps was that of the International Maritimes Association for permission to extend its piers in the Chelsea district along the North River, New York. The General Manager of the Cunard Line in America, said that New London Ct., was also considered as it is just about midway between New York and Boston.

PROFESSOR LEWIS WILL GIVE A COURSE OF EIGHT LECTURES AT HARVARD

Professor Lewis, Associate Professor of physical chemistry at the Institute will give a course of eight lectures to the students of Physics at Harvard University, on the subject of relativity.

This is a new and highly technical line of modern investigation in which the name gives little idea of the substance. In the recent remarkable developments of Physics, in which such substances as Radium play their part, the old names have both been to the "land of the rising sun" since Washington showed the way, but other teams have both been to the "land of the rising sun" since Washington showed the way, but other teams have both been to the "land of the rising sun" since Washington showed the way.

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THE TECH, BOSTON, MASS., MARCH 4, 1911

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