

THE TECH

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BOSTON, MASS., SATURDAY, MARCH 4, 1911

PRICE TWO CENTS

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.

"Heredity is that process or series of processes where by plants or animals come to resemble their progenitors" was the definition given by Professor Edmund Beecher Wilson of Columbia University, at the outset of a most interesting lecture on "The Physical Basis of Heredity" before the Society of Arts in Huntington Hall last night. The fundamental question he declared is the development of the age, for in that lies the solution of the laws under consideration. The hereditary composition is dependent upon properties of progenitors. An example of this is the mulatto production of a union of the black and white races. Some times the result is a mean in color and characteristics of the parents, but often a hybrid takes it colors entirely from one side.

One of the most important discoveries made in this field was the one made by Mendel, who found that when organisms form germ cells, the germ cells have a simplex composition, for although the first generation may have the mean properties of the parents the second generation takes the properties of one or other of the grand parents. It has also been found that at the time of cell division there forms a group of rod shaped bodies called chromosomes. These chromosomes divide with the nuclei and their number is constant for any one species. Each of these groups is made up of parts from the sperm cell, and parts from the germ cells, and they may be traced to the father and mother. The nuclei of the germ cells unite with those of the sperm cells and the Chromosomes unite to form four duplex groups.

When these chromosomes are thrown out of natural order it has been determined by actual experiment that the result is deformed, shapeless, or incomplete beings. A reciprocal cross is a cross either between male if one animal and female of other or vice versa. In most cases the result is the same but this is not always true. The resulting being may take the characteristics of either parent. The reason for this is that one or the other groups of the Chromosomes are unable to divide and are thrown out. Thus it may be seen, that these chromosomes undoubtedly have to do with the physical basis of heredity.

Until recently it was supposed that sex was dependent on surrounding condition such as food, chemicals, etc; but it has been proven that though this is so to a certain extent, it is more probable, that sex follows the law of Merdel. This was proven from heredity of color blindness and from microscopical study. It is supposed that there are not two sexes but one sex is a hybrid. In mankind it is thought that man is the hybrid. The reason for this is that woman has proper number of chromosomes of each kind, but in man there are more of one kind than of the other.

The question of what these chromosomes really do is one for the bro-chemist and will be solved in the future.

Mr. Wilson's talk was richly illustrated with slides and sketches, and it was greatly enjoyed by the large audience. President Maclaurin presided.

The freshmen at Cornell receive a novel receipt for their class dues. The receipt is a small, round, white button with the numerals "1914" and the words, "Taxed. Are You?"

PENNSYLVANIA TERMINAL DISCUSSED YESTERDAY

Mr. Cooper, M. I. T. '07, Explains Tunnel Construction

ILLUSTRATED BY SLIDES

Large Audience in 11 B Applauded The Speaker Warmly.

Yesterday afternoon at 1 o'clock in 11 Engineering B, Mr. Cooper, a Tech Graduate of the class of 1907, gave an illustrated lecture on the terminal developments of the Pennsylvania Railroad, at New York, which was enthusiastically applauded by the full audience. Mr. Cooper, who has been connected with this work since his graduation, part of the time as the secretary of the Board of Engineers, by whom the great task was planned and executed, was excellently fitted to talk on the subject, and the large proportion of the Course I men present fully were repaid for attending.

In considering his subject, the speaker followed the Pennsylvania Extension from Newark, across the Hackensack Meadows, into the tunnel under the North River, to the great terminal station; then on through the East River tunnel to the terminal yards on Long Island.

The North River tunnel, of two single track tubes, runs from the port 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 cave-in occurred; this necessitated the use of compressed air.

Through the silt on the bottom of the river a cylindrical steel lining was built as the tunnel progressed; the shield was forced ahead by jacks from the last section of the lining erected, and the silt, squeezed through doors in the shield, was removed in cars.

Following the excavation, a concrete lining was built the whole length of the tunnel; along each side was a bench slightly lower than the ledges of the car windows, affording refuge from trains for anyone who might have to be in the tunnel, also security in case of accident.

For the terminal station and train sheds it was necessary to remove two and one half million cubic yards of material, from an area of twenty acres. One of the difficult engineering features was to support 7th, 8th, and 9th Avenues, so that the excavation could be carried on without interrupting traffic. The huge station building, covering eight and one half acres, has received so much attention in the periodicals of the day, because of the artistic design, magnitude of the problems involved, and rapidity of erection that it is unnecessary to describe it here. An extensive plant was necessary to provide heat and light for the station, and power for the interlocking system and signals. At Long Island City, on the water front, is the power station furnishing the electric power for the line; this plant has all the latest facilities for handling coal, including automatic stokers.

A subway, converging to another double-tube tunnel, continues beyond the station across Manhattan and under the East River, where the soft silt bottom necessitated the sinking of caissons to support the tubes, to the great terminal yards. In these Sunnyside yards, as they are called, .53 acres in extent, having a capacity of 1500 cars, with 73 miles of track by an elaborate system of cleaning and inspection, the passenger and especially Pullman cars are stocked with water, ice, gas, etc., and kept in repair.

TECH AMATEURS GIVE BEST STUNTS IN YEARS

Annual Hook Night Celebration Held at Union Caused Much Enjoyment

MANY DISPLAYS OF TALENT

Definite Program Well Worked Up Salisbury Pleads for Athletics

At the Union last night, the corks of the mirth and laughter of the audience were off and a good time was the order of the event. The stunts that were pulled off were good and otherwise, and some surprisingly good bits were introduced. While waiting for the festivities to commence, "Bill" Salisbury came before the audience and outlined the athletic situation as it is, at the Institute at present and pleaded for the support of undergraduates. He spoke particularly of the Spring track work and pointed out that the Institute had, this year, the best chance of years, His remarks were well received.

The opening stunt of the evening was sprung by F. H. Achard, who dawdled through a pianologue. He made a clever escape from the hook but the limelight tempted him again and when he was "in front" once more, the hook was used on him.

The Newberry Wandering Minstrels next made a spectacular debut and rendered what might, with compassion, pass for "Hiawatha". The hook made a few vain attempts to remove this ambitious "orchestra" which soon went down into ignominy before the cries of "Hook, hook!"

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

The wrestling teams at Columbia are so numerous that seven coaches have been employed to take care of them.

The dramatic society at Mt. 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 railroad 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 parts in any outside interests, if she has any conditions. Wells college has chosen practically the same thing.

Columbia University, which has always guarded its students most carefully from cheating in examinations, has switched this policy completely round and is going to use the honor system in all departments.

CALENDAR

Monday—Mar. 6

1.00—Tech Board Mtg.—Union.
4.00—Mandolin Club Practice—Union.
5.00—Technique Electoral Com.—Mtg.—27 R.

Tuesday—Mar. 7

1.30—Union Com. Mtg.—Dean's Office.
4.00—Glee Club Practice—Union.
4.15—Gym. Team Practice—Gym.
4.10—M. E. Soc. Lecture—11 Eng. B.
—Musical Clubs Concert—Waverly.

Wednesday—Mar. 8

4.15—Gym Team Practice—Gym.

Thursday—Mar. 9

5.00—Technique Board Mtg.—Union.

TECH SHOW MUSIC CHOSEN

Better Music Submitted Than Ever Before

DENNISON'S WORK GOOD

All except One Finale Finally Chosen.

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 to draw upon in the future.

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

Mr. Putnam is also to be highly complimented upon his work for "Frenzied French." He makes a close second to Dennison having carried off the honor in five of the songs. Mr. Putnam will be remembered for his composition, "Tourists in the Queen of the Cannibal Isles." Profiting by his former experience, he has written some very good things this year.

Pierce, Cremer, Fuller and Fales, are all new men as far as Tech Show music is concerned. Their work, however, is fully up to the standard of the rest.

The following list is complete, and final with the exception of the finale of Act I, which has not yet been written. The finale of Act III will be a medley comprising the most successful of the songs sung during the play.

Opening Chorus. Act I O.B. Dennison, '11
Opening Chorus. Act II O.B. Dennison, '11
Opening Chorus. Act III O.B. Dennison, '11
The Butlers Story. O.B. Dennison, '11
Sherlock Holmes. O.B. Dennison, '11
Trials of a Hostess. O.B. Dennison, '11
Excitement. O.B. Dennison, '11
Tech. S. B. Putnam, '11

Every Juliet Has a Romeo S. B. Putnam, '11
Such a Happy Disposition. S. B. Putnam, '11

The Sudy of Love. S. B. Putnam, '11
A Man, A Maid, and Cupid. S. B. Putnam, '11

Finale Act II C. C. Pierce.
Be Moderate. C. C. Pierce.
How You Think It of Me. C. C. Pierce.

The Easiest Thing You Know. C. C. Pierce.
Inspiration. R. Cremer, '12

What Was I Thinking of Then. E. N. Fales, '11
I'll Be Down in a Minute. J. C. Fuller, '11

If I Could Only Talk Like That. J. C. Fuller, '11

These songs show a marked improvement both in originality, and execution over last years. With Mr. Kanrich's able orchestration, they should reach the high standard of the libretto. Both the music writers and Tech Show 1911 are to be congratulated.

The outcome of the combination of the literary with music is expected by the management to be greatly appreciated by the student body.

—Twentyfive cents a day is the fine at Minnesota for late registration.

THE TECH

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SATURDAY MARCH 4, 1911

INTERCOLLEGIATE NEWS

—Lacrosse is being abandoned at Columbia on account of lack 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 Schultz, Marshal, Pierce, Thompson, Cozens, and Hawk. 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 athletes have been out ever since the opening of college in the fall but the official training begins at this time.

—Plans are under consideration by the Press Club at Penn to eliminate from undergraduate publications at that institution all advertising that is of a mercenary or questionable character.

—Certain Chinese undergraduates at the University of Washington have set aside January 30, according to the Occidental calendar, as a day to cut off their queues. A big celebration is to be given at the public and official undergraduate hair cut.

The receipts this fall for football at Yale were about \$70,000. The Harvard game alone amounted to \$34,000.

The University of Calcutta, the largest educational corporation in the world, examines 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 again address you: in fact, he was tickled to death with the idea! Do you know, all day Thursday *The Tech* office was stormed with an eager bunch 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 give us?"

Gentle readers, do not bother *The Tech* board. 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, will the real live ones please pardon me while I repeat, for the benefit of a few temporarily asleep, our recent

ANNOUNCEMENT EXTRA-ORDINARY

"It has been resolved by the Chocolate Soldiers Minstrel Company that they, the Chocolate Soldiers, shall positively appear in full force in their up-to-the-minute 1911 production at the Tech Union on the night of Friday, March 17, for the benefit of *The Tech*, the price of one admission ticket to be thirth 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 iridescent, 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.

Wasn't 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 look our for Chocolate Soldier Night, keep the date in mind, and (here's a little tip) get your ticket early,—we'll have them ready for you next week.

Yours,
The Advance Agent.

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BOSTON MAY GET THE BIG LINERS

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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 pier long enough to accommodate two of these leviathans now under construction or in contemplation.

The Commonwealth is 1200 feet long and 400 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 Mercantile Marine Co. 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, of 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 and rules are no longer applicable.

The New Physics has to do with particle, moving at a very high rate of velocity, comparable with and very nearly equal to the velocity of light.

Relativity is a very definite physical law, but very complex in its exposition. Professor Lewis has been a special student of this and the complicated story of free energy, and so has been invited to give the lectures at Harvard.

—Coyle, baseball manager at Wisconsin, is arranging the tour of the Keio University (Japan) team in this country. He is reported as sending out letters to various American universities asking for contracts for games in the spring. The University of Washington, Wisconsin, and Chicago are already on the list for several games. When the University of Washington team went to Japan in 1907 it experienced no difficulty in winning from the brown men, but other teams that have gone there since did not have so easy a time. Chicago and Wisconsin have both been to the "land of the rising sun" since Washington showed the way, and each had to hustle to beat the fast Orientals. The Japanese have taken a great liking to the game and they turn out great to the contests. As high as 30,000 persons witnessed some of the engagements between American and Nipponese teams.

—A significant innovation in oratorical lines is being inaugurated at Columbia. In a coming oratorical contest, the university glee club is to render selections. The program has been arranged so that musical numbers will follow each speaker. A very low admission is to be charged.

—An advisory system for freshmen and sophomore students of the Literary Department of the University of Michigan was officially instituted and organized by the faculty of that department at its last meeting. This system has been in experimental operation for two years, and is now adopted as part of the regular administrative organization. The purpose of the advisory system is to bring every underclassman as soon as possible into relation with some member of the faculty who can give the student his counsel and friendship. For this purpose the younger men on the faculty have this far been chosen as advisors.

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LANGUAGE

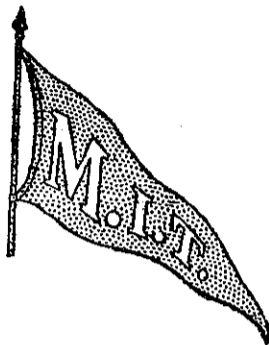
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Mechanical Engineering Society lecture on oxy-acetylene welding. Special invitation to Civils and Electricals. Tuesday, March 7th, at 4.10 sharp in 11 Eng. B. Foster Russell, Secretary.

TECH SHOW

Joint rehearsals of Chorus and Understudies are to be held Friday, March 3, at 4.00 P. M., and Saturday, March 4, at 2.00 P. M. in the Union dining room.

SECOND YEAR

Mechanical Engineering Drawing

Exercises for Course VI, section 1, begin on Wednesday, March 8, and for sections 2 and 3, on Friday, March 10.

IN THE LIMELIGHT

Cheer up, fellows, you needn't buy the girl any flowers for the Hop. They (the flowers) will not be allowed on the floor.

If the high school you came from is thinking of competing in the M. I. T. drill, why not send a number of copies of to-day's Tech to it? It contains all the information.

A radical change has been made in the attendance rules at Willis; the maximum number of cuts allowed now totals one week of work in each semester.

NOTICE

Physician will take into his family, two students; room with board if desired. Would consider a student during illness. Best of references from former Tech graduates. Call at 194 Huntington Avenue, Cor. Cumberland Street.—Suite A or Phone 3801-J—Back Bay, for particulars.
Mrs. George W. Galvin.

Tech Business Dept. Assignments are now ready for the Anniversary Special. Call at the Business Manager's office between 1.00 and 2.00, and get yours.

NOTICES

Mechanical Engineering Society nominations for officers due at the Cage on or before 5 P. M. Tuesday, March 7. See M. E. bulletin board in Eng. A for particulars.
Foster Russell, Secretary.

NOTICE

CAPE COD CANAL TRIP

All Civil Engineers who intend to go Must sign the lists posted in the drafting rooms. Everyone else who desires to go should apply to O. D. Powell, Secretary, at once. Trip will be in April. Cost about \$2.00. Further particulars later.

Class. Column

Will Students desiring fine rooms, which will accommodate two in a room, please apply at the Barsar's Office. (98-47)

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Private Lessons Daily by Appointment

OLD COLONY TRUST COMPANY

Capital and Surplus, \$12,500,000.00

Main Office, Court Street

Branch Office, Temple Place

SAFE DEPOSIT VAULTS AT BOTH
OFFICES