

THE TECH

VOL. XXX. NO. 25

BOSTON, MASS., THURSDAY, NOVEMBER 3, 1910

PRICE TWO CENTS

PROGRESS OF INDUSTRIAL EDUCATION IN INDIA

D. G. Churchill '99 Tells About Weaving and Irrigation Work Before the G. E. Soc.

Over a hundred men from the Departments of Civil and Mechanical Engineering heard Mr. D. G. Churchill, 1899, speak on industrial progress in India" yesterday, at the Civil Engineering Society meeting.

Mr. Churchill began his talk by explaining that people engaged in missionary work did not all devote their time to religious work, and a history of his experiences is certainly proof enough that his statement was correct.

After his graduation in 1899, Mr. Churchill obtained a position in a Western mine at a salary of thirty dollars a month. He advanced rapidly and in nine months' time he was placed in charge of the engineering department. He then came East for a while and then took charge of an industrial school in India.

The natives of India are very efficient, though this is not generally realized in this country. One of the chief occupations is metal hammering. A piece of brass is laid on a wooden block and is hammered into a dish shape until wrinkles appear at the edges. The workman turns the metal over and hammers it over a small anvil which he holds with his toes. The salary for such a man is sixteen cents a day, and in half a day the native can shape a good sized demijohn with the crudest of instruments. When better tools were introduced the work was not efficient.

Rug weaving, which pays from six to eight cents a day, is the occupation next to the largest class of workmen in India, the largest group being composed of farmers.

Mr. Churchill decided that the best way to help the natives was to de-

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CHINESE DEMAND A FAIR PARLIAMENT.

Sentiment in Favor of a Representative Body of Law-Makers.

All the people of China, from the highest to the lowest, are now unanimous in their demand for a true representative parliament. This sentiment has now become so strong that the Chinese government, which has up to this time steadily opposed any such innovation, seem to realize that such a change is imminent and that resistance is useless.

After the barbaric and foolhardy action on the part of China at the time of the Boxer uprising, her position was extremely precarious, for it was long considered that the most satisfactory arrangement possible would be a partitioning of China among the European powers. This, however, was not done, largely due to the action of this country. Since that time a stronger and stronger feeling on the part of many of the Chinese led, here of late, to the founding of a nominal representative parliament, consisting of men chosen from the higher classes only. A realization that this was inadequate and unfair has gradually dawned on the Chinese, and a statement of the conditions yesterday by Prince Yu Lang would seem to foreshadow a radical change in the present state of affairs. If a truly representative body of law-makers is formed, the progress of China seems to bear a more hopeful aspect than ever before.

MANY NOMINEES FOR 1912 CLASS OFFICERS

Forty-two Names Will Appear On Junior Election Ballot

Nominations for the officers of the class of 1912 were opened last night. The following long and extensive list is offered for the inspection of members of that class.

For President.

Charles Hamilton Carpenter,
Edward Montgomery,
Walter Morley Ruby.

For Vice-President.

Henry Andrews-Babcock,
Randall Cremer,
Percy LeRoy Flansburg,
Albert Garland Gale.

For Secretary.

Harry Ferguson,
Rudolph Herzer Fox,
Charles Lester Gabriel,
Nathaniel McLean Sage.

For Treasurer.

Lester Locke Downing,
John Soley Selfridge,
Bates Torrey, Jr.

For M. I. T. A. A.

A. K. Adams,	K. Cartwright,
P. W. Dalrymple,	S. B. Duke,
A. Eicher,	E. E. Ferry,
R. M. Ferry,	R. A. Foster,
E. Mangan,	E. T. Marceau,
W. T. Roberts,	F. J. Shepard, Jr.
R. P. Wallis,	H. G. Watkins,
R. D. Van Alstine.	

For Executive Committee.

V. W. Allen,	C. E. Dodge,
A. G. Herreshoff,	V. W. Gallagher,
H. L. Woehling,	D. M. Wyman.

For Institute Committee.

W. C. Bird,	J. L. Barry,
H. H. Partridge,	R. M. Doble,
E. O. Upham,	G. A. Severson,
J. E. Whittlesley.	

C. H. Carpenter has been Class Treasurer for the first two years, was a member of the Technique 1912 Electoral Committee, receiving the highest vote for that important body.

W. M. Ruby has been a member of the Crew since its organization, and has been prominent in the weight events at the various athletic competitions.

Randall Cremer is Professors' Editor of Technique 1912, and has been in the Tech Show Chorus for two years.

P. L. R. Flansburg was last year a member of The Tech News Staff, and is a member of the Wireless Society. He was in the Tech Show Chorus last year.

Albert G. Gale was manager of the class football team, Freshman year, and was also on the Institute Committee that year.

Rudolph H. Fox was on the Circulation Staff of The Tech last year, and was a Tech Show man.

C. L. Gabriel is Secretary of the New York State Club.

N. M. Sage was Associate Editor of The Tech.

L. L. Downing was on the Tug-of-War team two years.

J. S. Selfridge is a member of the Aero Club. He was Adjutant in the Battalion last year, and was also a principal in "The Queen of the Cannibal Isles."

Bates Torrey, Jr., was on the class football team two years.

Nearly all the candidates for M. I. T. A. A. have been prominent in one or another form of athletics. Ballots will be ready within a few days, and it is hoped that all who are eligible will vote, and that those who are not will pay their dues and then vote. The result of the election will be an-

(Continued on Page 2.)

ANNUAL HANDICAP CROSS-COUNTRY RACE

Four Men Making Fastest Times Will Be Awarded Insignia

On Saturday, November 19, will be held the annual handicap cross-country race. This race comes every year shortly after the I. C. A. A. A., and its purpose is to bring out new men for cross-country and to encourage the men already out who have not succeeded in making the varsity team. Time handicaps only are given, so each man covers the entire course of eight miles. The four men making the fastest times are awarded the insignia c. T. c.

The course starts and finishes near the Highland Station in West Roxbury, and is chiefly cross-country running, although it stimulates some good road work. The course is admirably suited to the race and has been used for several years. The record for the course is held by H. H. Howland 1909, who covered the eight-mile stretch in 46 minutes 23 seconds.

A practice run over the course will be held next Saturday, and another on November 12, the date of the Inter-collegiate cross-country race at Princeton. Last year, to stimulate more interest in this course, cups were offered to the first and second man to finish, and to the man making the best actual time over the course. These cups were the gifts of E. H. Lorenz 1905, F. H. Hunter 1902, A. R. Hunter 1908, and R. Ellis 1909. Three cups will be presented this year. Last year R. M. Ferry 1912, won the time prize; E. W. De Witt 1911, the first prize, and Foster Russell 1911, the second place trophy.

FIVE-WEEK REPORTS TO BE ABOLISHED.

Sophomores to Receive Grades Every Seven Weeks—Calendar Changes.

A number of changes have been made in the Calendar for 1910 and 1911. The second term begins January 30th, whereas last year it commenced February 8th. The recess between the first and second term is removed, but a two weeks' examination period is substituted. In this way the year has been divided into two equal terms, which the faculty have always had in mind, and the exercises of all classes close on the same day. The year closes May 20th, eight days earlier than last year.

In regard to the matter of reports, during the first term the first year students receive five-week reports, but during the second term they receive seven-week reports. The Sophomores receive seven-week reports during the entire year. The object of the change from five to seven-week reports is to make the transmission from Freshman to Junior gradual (some may find it too gradual) as the Juniors do not receive any mid-term reports. The five-week reports are to enable the instructors to get a better line on the students during the first five weeks, when the instructor has little chance to get in close personal touch with the student, and when the divisions are constantly changing. After the first term the men should have settled down and the instructor knows the student's limitations.

The 275th anniversary of the founding of Harvard records an enrollment of 5,000 students.

FALL DAY RECEPTION FOR BIOLOGISTS

Mrs. W. T. Sedgwick Invites Men to Visit Her—New Members Elected

At a meeting of the Biological Society at noon, yesterday, President H. P. Ireland read a letter that he had received from Mrs. W. T. Sedgwick, inviting the members of the society to meet at her home on Field Day, after the games. Professor and Mrs. Sedgwick live at 20 Edgehill Road, Brookline, this being only a stone's throw from the Field. Those men having ladies with them are asked to bring them to the house also. Quite a few of the fellows have agreed to go to the Field together and meet Mrs. Sedgwick after the games. Others wanting to join the bunch should signify their intention to one of the officers.

It was also decided to hold a smoker in the near future, and at that time some changes in the Constitution will be submitted. A regular program committee is to be suggested so as to relieve the present officers of the club, who have too much work as things now stand. The names of fifteen men were presented for membership, and their applications were granted.

1914 MASS MEETING.

Chairman Krueger Voices Sentiment of the Class with Regard to Tech Night.

Note.—This article was intended for yesterday's paper, but owing to circumstances beyond our control it was not run.

1914 CLASS BALLOT.

The Freshman elections are due to be handed in next Monday, at 5 P. M. Unless class dues are paid, ballots will be rejected.

Nominees are:

President.
R. D. Brown,
T. K. Krueger,
G. C. Shedd.
Vice-President.
D. V. Dierks,
A. C. Dorrance,
R. C. Doremus.

(Continued on Page 3.)

LOST

1913 Dinner

Will appear in To-morrow's Tech

CALENDAR.

Thursday.

4.00—1913 Football Practice—Oval.
4.00—1913 Relay Race—Field.
4.00—1913 Tug-of-War Practice—Gym.
4.00—1914 Relay Practice—Field.
4.00—1914 Football Practice—Field.
4.00—1914 Tug-of-War Practice—Gym.

4.15—Mandolin Club Rehearsal—Union.
4.15—Glee Club Rehearsal—Union.
5.00—Books for Tech Show Due.

Friday.

FIELD DAY.

Triangular CrossCountry Run over Tech Course—Tech-Brown-Tufts.
4.00—Reception to Biologists by Mrs. Sedgwick.
8.00—Tech Night at Colonial Theatre.

Saturday.

1.30—Run over Handicap Course.

THE TECH

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THURSDAY, NOVEMBER 3, 1910

Among the alumni of the Institute, we are proud to say, are men who stand at the very head of their professions, men who have developed their ability to the very highest point of efficiency. There are now at the Institute men of the same calibre, future leaders in the lines of engineering and research. These students recognize in their work here at the Institute the best opportunity for fitting themselves for lives of service. Strange as it may seem, there are others who appear to consider the four years at the Institute an object in itself rather than preparation for future usefulness. To these students let us quote a part of the Matriculation Address, delivered this Fall by Secretary Anson Phelps Stokes of Yale University. His advice applies as well to our own students as to those to whom it was directly addressed.

"The greatest hindrance to making the best use of a University course is a false sense of proportion. I can put the thing in a nutshell by saying that if the members of the Freshman class were today given the choice between a Yale 'Y' or the key of Phi Beta Kappa, or of Sigma Xi, the majority would be likely to choose the former, while five years hence they would probably vote overwhelmingly the other way. This merely means that looking back from the standpoint of greater maturity, the value of scholarship is seen in right proportions. The secretary of my own class made a careful study ten years after graduation of our opinions regarding the true emphasis in undergraduate life. It was pathetic to see the depth of the regret of most of the men that they had not sooner appreciated the advantage of hard intellectual work as a basis for future service. I beg you this morning to view things in right perspective, realizing that a perverted sense of proportion is the cause of most college failures and tragedies.

"It makes a man willing to indulge in the sensual pleasure of the moment—forgetting the regret of every decent man for sin committed.

"It makes a man willing to neglect his studies—forgetting that he is throwing away a chance to fit himself for life's work which can never be repeated.

"It makes a man willing to stoop to unworthy practices to secure temporary popularity—forgetting that the enduring respect of classmates for in-

dependent worth is more to be desired than all social honors put together.

"It makes a man prefer the congenial good-fellowship—often a misnomer—of a few men of similar tastes and upbringing to broad friendships based on character and ability.

"It makes a man content with the easy attitude of the persistent and the cynic—instead of seeing that these must be passing phrases in the onrushing world of evolution which is not satisfied with anything short of the Christian's faith.

"Yes, a false sense of proportion is the bane of the undergraduate. It is largely responsible for sin, and laziness, and lack of independence, and snobbishness, and the attitude of carping criticism whenever these appear, and they are to be abhorred. They are not in keeping with the main tradition of Yale, which has stood for purity, work, independence, democracy and faith—for training well balanced, 'four-square men.'

"I cannot urge you too strongly to get right standards at the outset of your course."

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(Continued from Page 1.)
velop them along the lines that were best suited to the trade of the country. He accordingly set about developing the implements for weaving, and began the manufacture of wheels for Bullock carts. For two years his plans were not approved by the men in charge of educational work, and hence no "grant of aid" was forthcoming. At the end of that time Mr. Churchill proved that his methods were the correct ones, and so the grant was renewed.

Weaving in India is carried on by eight million hand looms and a number of good sized textile works. The natives do not cut or sew the material out of which they make their clothes. Rather, they simply drape the cloth around their bodies. They care more, therefore, about how the ends of the cloth are finished than they do for the homogeneity of the material, because the folds hide any defects in the goods. Mr. Churchill improved the form of loom then in use until its efficiency was more than doubled. This loom was given first prize at the Industrial Exhibition in 1904. The speaker was not yet satisfied with his work, however, and invented a new loom which is still more efficient than his former one. The air in a workman's hut is humidified by sprinkling the floor with water several times a day.

Irrigation is another subject of great interest to the people of India. In the Bombay Presidency there is one system that supplies water to two hundred thousand subscribers at a rate of about seventeen dollars a year. It is believed that a lot of this water is wasted by the native farmers, and that the effect of this is to decrease the yield of the sugar cane crops. A meter system is to be installed as soon as a suitable meter is put upon the market. A device is also wanted which will make the amount of water delivered to any piece of ground constant, despite any change of the height of the water in the canal.

Mr. Churchill believes that if any one wants to succeed in India, he must be able to adapt himself to the customs and environments of the country. "Adaptation" has been the simple rule that has guided him to such great success in his work. Great applause followed the talk.

At this meeting of the society the

applications of about fifty men for membership were offered, and the secretary was instructed to cast one vote granting their petitions. Vice-President Bates presided at the meeting.

(Continued from Page 1.)
nounced at the class dinner next Wednesday evening, November 9, at the Union.

(Continued from Page 1.)

- Secretary,
P. H. Taylor,
A. T. Wyman,
P. A. Russell.
Treasurer,
L. F. Hamilton,
W. H. Monahan,
P. E. Owen.
Institute Committee.
(Two to be Elected.)
S. W. Merrill,
H. G. Matthews,
Maurice Paris,
P. W. Shedd,
A. R. Stubbs,
R. V. Townsend,
A. H. Waitt.
Executive Committee.
(Two to be Elected.)
H. L. Stone,
H. A. Mayer,
A. G. Long, Jr.,
W. H. Price.
Athletic Association.
(Five to be Elected.)
L. W. Burnham,
T. L. Chase,
C. P. Fish,
C. E. Fox,
T. H. Guething,
A. F. Nye,
G. W. White,
C. D. Bryant,
J. R. Roberts.

FIRST YEAR.

October 25, 1910.
Section 13 in Chemistry Recitation will be changed from Saturday at 12 to Friday at 9, and meet at that hour in 22 Rogers.

WALTER HUMPHREYS,
Registrar.

Forty-seven students responded to the annual call for the Varsity crew at Princeton.

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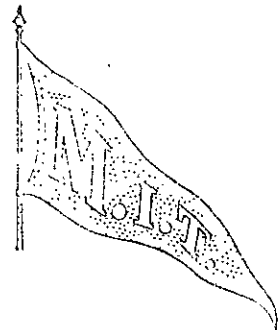
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ALL MEN desiring pictures of the Cosmopolitan Club should leave notes in Box 36, at the Cage.

SECOND YEAR.

October 31, 1910.

A new section in Physics Recitation, Course I, will meet Mondays and Wednesdays, 2-3, in Room 24, Lowell. WALTER HUMPHREYS, Registrar.

(1)

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ART MUSEUM.

Free tickets of admission to the Museum of Arts for the year 1910-1911 will be issued to students upon application at the ticket office at the entrance to the Museum.

H. S. STORY, Curator.

THIRD YEAR.

Course X.

November 1, 1910.

The first exercise in Applied Mechanics will begin on November 4th at 10 o'clock, in Room 21, Eng. B, and continue according to the Tabular View.

WALTER HUMPHREYS, Registrar.

Excursion of the Mechanical Engineering Society to Sturtevant Blower Works, Readville, Wednesday, Nov. 12th. Leave Back Bay station at 2.10. All Course II men invited.

FOSTER RUSSELL, Secretary.

(24, 25)

MUSICAL CLUB READER.

Any man in the Institute who has ever done any "Reading" or entertaining of any kind, who would like to join the Musical Clubs as "Reader," please see S. W. Selfridge or H. K. Franzheim, managers, at once, and obtain particulars. (1f)

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NOTICE.

The exercises of the Institute will be suspended on Friday, November 4th, after 12 o'clock M., for Fall Field Day.

A. L. MORRILL, Secretary.

COURSE II.

Fourth Year.

Recitations sections begin Friday, October 28. Lists are posted in the 4th year bulletin board in Lowell Building, and in Course II, 4th year, drawing room.

HARRISON W. SMITH.

NOTICE.

Two volumes of Technique for sale, 1894 and 1895; 1895 is dedicated by President Walker and has his picture as a frontispiece. Apply at Room 36, Walker.

NOTICES.

DYNAMO ELECTRIC MACHINERY. 661.

Problems may be obtained by applying to Room H, Lowell Building. HARRISON W. SMITH.

(2)

TECHNOLOGY.

Medical Adviser.

October 27, 1910.

Dr. Franklin W. White Medical Adviser to the Institute, may be consulted by students, without charge, on Monday and Thursday, from 4 to 5 P. M., in Room 27, Pierce.

Exemption from the payment of a fee is limited to these hours and this place.

Mr. White's private office is at No. 416 Marlborough street, and his office hours are from 8 to 9 A. M., and from 1.30 to 3 P. M., daily.

WALTER HUMPHREYS, Registrar.

FIRST YEAR.

Personal Hygiene.

October 31, 1910.

The second lecture on "Personal Hygiene" will be given by Dr. White in 6 Lowell, on Wednesday at 2 o'clock. The exercises in Drill will be postponed to Wednesday at 3 o'clock.

WALTER HUMPHREYS, Registrar.

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