

STRATTON TALKS TO WEIGHTS AND MEASURES GROUP

Discusses Work of National
And International Bureaus
Of Standards

MEETING HERE TWO DAYS

Exhibit Weighing and Measuring
Devices in the Steam
Laboratory

President Samuel W. Stratton addressed the annual convention of the Society of Sealers of Weights and Measures in Room 5-330, yesterday afternoon. After welcoming the members of the Society to the Institute, he discussed the relation of the International Bureau of Standards to the National Bureaus and that of the National Bureaus to the state organizations.

In a summary of the history of standards he explained that the motive behind the constant activity of the bureau was the necessity for a universal and easily reproducible standard. In the course of his talk he gave a description of the care taken of the standard meter. That this bar should be kept in an iron safe thirty feet under ground, with maximum and minimum thermometers and hygrometers to determine the conditions to which it had been subject, and removed only once in six years may seem remarkable precautions. But it must be remembered that this bar has heretofore not been replaceable.

Standard Now Light Wavelength

At present the scientific standard of reference is the wavelength of light. This idea was conceived several years ago and has just been adopted by the International Bureau of Standards upon the recommendation of the national Bureaus. At the recent session of the International Bureau from which President Stratton has just returned it was likewise decided to adopt certain uniform physical constants, notably thermal and electrical, to replace those which had been in use in various countries and had not been identical.

Mr. Frances Meredith, the Massachusetts Director of Standards, next spoke upon events of the past year, touching upon the difficulty encountered in securing cooperation from local authorities in establishing sealers in small towns. The meeting then took up the discussion of various business, which will continue at this afternoon's meeting. Various weighing and measuring devices have been placed on exhibition in the steam laboratory where students may view them.

CALL MASS MEETING OF FRESHMEN FRIDAY

All members of the Class of 1931 have been called to attend a mass meeting on Friday at 5 o'clock. The place of meeting will be announced in the next issue of THE TECH. A meeting of the freshman section leaders will take place today at 5 o'clock in Room 4-138. The mass meeting will serve as an impetus to the field day plans and teams.

Explosion Alarms The Organic Laboratory

Metallic sodium, alcohol and water are not good mixers. Virgil W. McDaniel '30 found that out yesterday afternoon. The lesson was forcibly announced when a vivid yellow flash and sharp, loud explosion rang out in room 4-440, the organic Chemistry Laboratory, and white fumes filled the room, bringing students and excited instructors to the scene of the action. Luckily, no one was hurt, although several students right next to McDaniel were somewhat unsettled. The explosion occurred when a piece of sodium in a test-tube of alcohol was dumped into the sink.

Expulsion For Users Of Gas on Field Day

Students using bromine or other gases on Field Day will be liable to expulsion from the Institute. At the meeting of the Field Day Committee yesterday afternoon the events of last year's Field Day were discussed and the committee decided that the safety of the spectators, outsiders as well as students, made it imperative that there be no repetition of the events of last year, when the stands had to be cleared several times because of exploding tear gas bombs. The committee favored a severe penalty as the only means of preventing a recurrence of the events of last year.

M. I. T. HAS BOOTH AT INDUSTRY SHOW

Have Exhibits of Industrial
Work Being Done at
Technology

Technology will be represented at this year's Cambridge Industrial Exposition, it was announced last night, and a booth has already been rented. The affair, which is an annual one, will be held this year in the State Armory in Cambridge, opposite the Institute, on next Wednesday, Thursday and Friday.

It is planned to have the various departments give exhibits of the industrial phases of their work. Exhibits from the textile and testing materials laboratories will be displayed and various X-ray pictures will also be shown. It is intended to have the device from the Testing Materials Laboratories which can measure a millionth of an inch by a beam of light occupy a prominent picture.

Small Institute seals, made in the foundry, are to be given away to the people attending for use as paper weights. It is also planned to give away various pictures of the Institute, copies of THE TECH and T. E. N., and various other souvenirs to the attending multitudes.

An attempt will be made by Colonel Harold E. Cloke, head of the Department of Military Science and Tactics at the Institute, to station student cadets at the booth to give away the different souvenirs and answer questions. William Jackson, director of the Information Office at the Institute, has been put in charge of the Institute's exhibit. The exposition itself is under the direction of the Cambridge Rotarians.

M. I. T. MAY RECEIVE LARGE TESTING TANK

During the past month there has been much talk about purchasing a large tank for the Naval Architectural Department. This tank would be used for testing ship models and would be a valuable addition to the apparatus of the Department. If the project materializes the tank will be built beside the Cambridge railroad near Technology.

Professor James R. Jack says that when he was in Scotland with President Samuel W. Stratton, they inspected the famous Denny tank of Scotland. This tank is the oldest one in the world and was built in 1882. While in Scotland, Professor Jack and President Stratton also went for a trip on the steamer "King George V." This steamer is operated by a high pressure turbine and was the first turbine steamer of its kind ever built in Scotland.

T. E. N. SENDS FOUR MEN TO CONVENTION

T. E. N. will send four men to the Engineering Colleges Magazines Associated Convention to be held at the University of Ohio, from October 20-22 inclusive. Two or more men are sent each year to the convention to represent the Institute publication. The men will try to bring the convention to the Institute next year. The men who will represent T. E. N. at the convention are: John S. Middleton '28, Adam K. Stricker '29, Thomas H. Speller '28, and William Baumrucker '29. The E. C. M. A. was founded in 1921 by T. E. N. and is now composed of twenty-one colleges.

APPROACH OF FIELD DAY CARRIES CLASS SPIRIT TO HIGH PITCH

Men Still Needed for Field Day Teams

	MEN TURNED OUT		MEN NEEDED	
	Sophomores	Freshmen	Sophomores	Freshmen
Crew	24	70	6	0
Relay	24	24	15	10
Football	21	19	5	12
Tug of War	31	3	4	32

T. E. N. Features Article On U. S. Standards Bureau

Fuels and Gas-Electric Motors
Are Also Subjects of
First Issue

"During the twenty-six years of its existence, the Bureau of Standards has done as much as, or perhaps more than, any other agency to introduce and encourage scientific work in connection with industry," says President Samuel W. Stratton in the beginning of his introduction for an article on the Bureau which is the feature article of the October issue of the Tech Engineering News which comes out today.

George K. Burgess '36, Director of the National Bureau of Standards, is the author of the article, which tells of the work at the Bureau and tells the opportunities it offers as a field of endeavor to the technical graduate. Several cuts are used to illustrate the article.

"Impending Changes in Our Use of Fuels," by Arthur D. Little '85, is the title of the other leading article in the monthly's first issue of the year. This reviews man's use of fuel and describes the coming changes in our use of coal, telling of some of the processes which are now being developed.

Also included in this issue is an article by Charles Froesch, of the engineering department of the International Motor Company, on the gas-electric drive for motor busses; an account of investigation of automobile noises, by Philip C. Jones '12; a discussion of the "Balancing of Rotating Bodies," by C. Richard Soderberg '20, who is section engineer with the Westinghouse Electric and Manufacturing Company; and the usual departmental notes, book reviews, and engineering abstracts.

Department of Chemistry Will Show Movies of Chemistry of Industries

Bi-Weekly Pictures Will Tell
Stories of Commercial
Processes

Motion pictures of chemistry showing the various processes and industrial plants in operation, are being used in the Department of Chemistry to supplement the regular work in lectures and laboratories.

The object of the program of industrial motion pictures is to give the student some idea of the possibilities in the field of engineering beyond his period of technical information gained at the Institute. These pictures illustrate the most modern methods in practice. Dr. Ernest H. Huntress, who is in charge of the program, stated that the industrial film gives the student many of the benefits of actual trips to the various industries without the inconvenience and expense of inspection tours.

A film telling the story of petroleum, from the wells to the processes of refining, will be shown tomorrow as the first in the program. The showing will be in room 10-250 at 4 o'clock and is open to the student body.

DROWN WILL GIVES \$50,000 TO M. I. T. Founds Memorial Scholarships To Professor Thomas M. Drown

Technology will receive a bequest of \$50,000 from the Drown estate according to the will of Mrs. Mary F. Drown which was filed in court on Saturday. Thirty-eight other schools and forty relatives are among the other beneficiaries from this will.

Of this amount \$20,000 is to be held in trust and the income used to provide scholarships for deserving undergraduates. It is intended that these scholarships be a memorial to Professor Thomas M. Drown, and therefore they will be called the "Thomas Messenger Drown Memorial Scholarships." The Institute is not restricted in the use of the remaining \$30,000 of the bequest.

As a graduate of the Medical School of the University of Pennsylvania, Professor Drown received the degree of M.D. in 1862. On deciding to take up the study of science, he then continued his education in the Universities of Yale and Harvard, the Freiberg School of Mines in Saxony, and the University of Heidelberg in 1895.

Was Professor at Technology
Dr. Drown became an instructor in Analytical Chemistry at Harvard in 1869 and 70, and later, from 1874 to 1881 was Professor of Analytical Chemistry at Lafayette College. In the interval, he held the position of Secretary and Editor of the Transactions of the American Society of Mining Engineers. He was the Richard Perkins Professor of Analytical Chemistry at Technology from 1885 to 1895. From that time until his death in 1904, he was President of Lehigh College. In addition he held numerous minor positions and honorary offices as a result of his work in chemistry and public health.

SOPHOMORES HAVE LARGE TURN-OUTS FOR ALL EVENTS

More Football Men Are Needed—Fresh Tug-of-War Has
Only 3 Men Out

BOTH CREWS ARE STRONG

With Field Day falling this year on November 4, the traditional clash between the two lower classes of Technology is barely a fortnight away. Two weeks from Friday the Sophomores and freshman will vie with each other for supremacy in football, crew, relay, and tug of war, and upon the outcome will depend the numerals to be engraved on the Field Day Cup. Should the yearlings clip off any three events, or football and one other, it will mean the first freshman victory in eleven years and that the numerals of 1930 can never appear on the cup in Walker Memorial.

More Freshmen Needed
Waking up at last to the lateness of the season, the Sophomores have been lately showing greatly increased turn-outs to form second teams in all events. On the other hand, hardly more than one full team is regularly reporting for freshman football practice and unless there are more turn-outs soon, the team will not be able to have the necessary scrimmage practice. Those going out now still have a chance to make the team.

With only three men reporting where 29 are needed, the yearling tug-of-war team is also in need of many recruits especially as they will meet stiff resistance, the Sophomore hemp pullers having carried off the similar event last year. The loss of football and tug-of-war means the loss of Field Day, so Coach Bernhardt is sending out an urgent call for freshmen to report for practice this evening at 5 o'clock behind the track house.

Crews Show Up Well
"The Sophomores are very fast, but the freshmen have a fine turn-out and are pulling well together. I predict a very interesting race." This is the optimistic report sent down from the boat house by Bill Haines, who also announces that there will be an additional race on Field Day between the Ineligibles and the Second Freshmen. The Sophomore crew is practically the same as the one which came so close to winning last year, but the race is no closed affair and both eights can be seen swinging down the river twice a day in an effort to get in the pink of condition before rowing the fateful mile.

Competition is also growing hot over at the track house where Coach "Os" Hedlund is making two squads of 24 men work hard for places on the relay teams. He has some very fast freshman material, among whom are Lodge, Leadbetter, Broder and Sullivan, but Edmund, Ross, Ladd and Swenson on the Sophomore squad are also clicking off good times. With twelve places on each team there is plenty of chance for everyone, even late comers.

CALENDAR

Wednesday, October 19
5:00—Instrumental Club Meeting in Faculty Dining Room, Walker.
5:00—Meeting of all freshman section leaders in Room 4-138.
7:30—Tech Show Chorus Tryouts in Walker.
7:30—Meeting of Music and Lyrics Writers, in Walker.
9:00—Catholic Club Dance at St. Cecilia's Hall on Belvedere St.
Thursday, October 20
5:00—Glee Club Rehearsal in Room 10-250.
5:00—Banjo Club Rehearsal in Room 2-190.
7:30—Chemical Society Smoker in North Hall, Walker.
7:30—Aero Association Meeting in Room 3-270.
Friday, October 21
8:00—Dorm Dance in Walker Memorial Building.

A Record of Continuous News Service for 46 years



Official News Organ of the Undergraduates of M. I. T.

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TECH SHOW, PAST AND PRESENT

WITH the official commencements of activities on the thirtieth annual Tech Show it seems highly propitious to recall some of the traditions and practices which have been prevalent in the shows of the past years.

According to an alumnus, the Tech Show of years ago was one of the biggest events in the undergraduate social life. During Junior Week when the show played in Boston the audience was made up almost solely of undergraduates and friends of the student body.

The last few years have seen a change, however, for the Boston performances have been assuming more of a professional attitude than before. While it is true that many of the undergraduates and local alumni are in attendance, nevertheless, each performance has seen an increasing number of outsiders present.

We are not in any way implying that we wish to exclude these outsiders from the Tech Show performances, for it is partly through them and their interest that Technology becomes known. On the contrary it becomes only more essential that the alumni and the undergraduates continue in their attendance and so spread their spirit and enthusiasm throughout the house that the Tech Show will once more assume its true position as the greatest Technology assembly.

GENERALIZATIONS ON COLLEGES

IT IS rather interesting to notice the various ideals that different people hold for the perfect college. For instance Stephen Leacock's idea of forming a college according to "The New Student" is to get a few fellows together in a room with a pipe apiece, and then if there is any money left, hire a few professors.

Occasionally there are to be found individuals who consider it the sole duty of a college to make the lower classes as miserable as possible, as is advanced by the statement of the editors of the paper at Rensselaer who think their school is going to become a nonentity simply because the Freshman Rules are not as strenuous as those which they have previously had.

Probably the best explanation of these divergent opinions arises from the growing specialization of the present day. People are becoming so specialized that they are unable to see more than one phase of a phenomenon at once. They see but one side of a many-sided subject which may be a minor side at that, and draw generalizations from that.

There is probably at least a little truth in most of the statements as to the aim a college should have but that small fraction of the truth should not be mistaken for the whole truth. The most needed course of instruction in any school is how to draw correct generalizations from the facts in any given case.

THE OPEN FORUM

UPPERCLASSMEN ARE CALLED TOO ALOOF

The question one hears on all sides these days is, "Why don't the freshmen obey the rules that were laid down for them by the Rules Committee?" What is the matter?

Are the freshmen becoming insubordinate? Do they deliberately violate these sacred vestiges of the authority of the upperclassmen? Are they determined to rebel against these ridiculous regulations? Certainly not! Do we not wear our freshman ties, those blazing signs of innocence? Do we not tip our hat to the president of the Institute and to the Dean, especially so since there is no Dean, and not many of us would know President Stratton if we saw him? Do we loiter in the Main Lobby? No more than we can help.

The main bone of contention, however, seems to be in the "Hello" rule. Of course, nearly everyone realizes that a shy freshman, hurrying to and from his classes, trying out for a sport or an activity, is thinking of nothing else as he walks along but to say hello to all in the corridor who are not sporting the beautiful emblem of our class. Naturally we would not be thinking of such insignificant things as our next class, and various other minor details of our college activities. Possibly, we are thinking only of this important injunction laid down by our superiors. But even a conscientious little freshman must feel somewhat discouraged when, after accosting eleven upper classmen in succession, the only reply he received was the cryptic "Yes." What on earth does "yes" mean after one says "hello"?

Possibly a bit of the fault lies with the upper classmen, even though everyone knows that they are perfect. Possibly if they would even be civil enough to let us know that they heard us, the rule might be obeyed in a better manner than at present. Even a freshman doesn't want to be kept for a fool all of the time, and one certainly feels foolish when one is snubbed, so to speak. So a little co-operation from our mentors, who made the rules in our behalf, as they say, would not be amiss, and might even make the rule a success. Certainly it will never be popular if it is backed up only by the force of the "vigilance committee."

(Signed) A FRESHMAN.

The tennis clubs of the various universities have made arrangements for conducting an intercollegiate tennis tournament for women. At this rate the women athletes will soon be as important to a college as those of the stronger sex.

AS WE SEE THE MOVIES

"APPLESAUCE"

The opening night at the St. James Theatre was more like a reception for Walter Gilbert than the usual Monday night performance. The climax of the evening was reached when the leading man was presented with a large horseshoe of flowers.

None of these ceremonies were on the theatre's program, but what is there was enjoyed equally well. The comedy, "Applesauce," is truly a "side-splitter." Walter Gilbert plays a part that is surely the hit of his career. "You will laugh until you cry," is appropriate in describing the fine work that he does on the stage. "Ma" Robinson, played by Mary Hill, and "Pa" Robinson, Charles Schofield, in their gentle family rube form much of the humor in the show.

It is really Walter Gilbert, the suitor, who spreads the "apple sauce" and breaks the engagement of Hazel to the "best catch in town." They live over a drug store and "Pa" says the rent, until "apple sauce" finally crashes through with dividends. This forms a situation far more humorous than the average comedy.

John Winthrop as Matt McAllister, the rich uncle who is tired of paying his nephew's bills, and Frank Charlton as Rollo Jenkins play their parts very well.

THE TECH BOOK LIST

THE SILENT FORCE, by T. Morris Longstreth. New York: The Century Company. \$4.

It was in 1873 that the matter of government in the great Canadian Northwest came to a climax. In that year, responding to an appeal for volunteers, young clerks, farmers, carriage-makers, and men from all walks of life signed the papers which bound them to serve three years in the Mounted Police Force of Canada,



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which force immediately set out "to impress the Blackfeet, oust the whiskey-seller, and proclaim the sovereignty of Canada over the new and not yet penetrated lands."

With an unostentatious beginning, the organization now known as the Royal Northwest Mounted Police, came into being. It is the history of this world-famous organization which fills the copiously illustrated pages of this book.

The author has not obtained his material by the notorious method of "leaks" and "confessions" but by enlisting the unqualified support, the earnest and sincere cooperation of the entire Force itself. He was accorded the very great privilege of being the guest of the Force, while the inviolate archives were opened to his careful research,—a perfect testimonial of the high regard in which the Force holds Mr. Longstreth. Documents, letters, and reports have been patiently analyzed in order that the reconstruction might be as perfect as any but the

(Continued on Page 4)

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FORTY-EIGHT MEN ON RELAY SQUADS

Sophomores and Freshmen Are Equally Represented On Track

With Field Day a little over two weeks away the Sophomore and freshman relay squads are showing improvement as a result of daily practice on the cinders. The handicap meet last Saturday gave the men their first opportunity to show what they could do in competition and the large number of men who turned out for the meet was encouraging to Coaches Oscar Hedlund and Bill Meanix.

The Sophomores intend to take revenge on the yearlings for the defeat they received last year at the hands of the class of 1929 and 24 men are practicing daily with that as their goal. The freshmen, however, have for an objective the cancellation of one of the freshman rules and are determined to capture the three points in the relay as their share in the victory of the freshman class on Field Day.

Twenty-four frosh are competing for places on the team and from this group a team of 12 men will be picked to represent the freshman class on the track.

TENNIS TOURNAMENT.

Two of the seeded players have been eliminated from the fall tennis tournament as the second round is getting under way, one of the most surprising upsets being the defeat of Capt. Kuki. John Cleary, a Sophomore took the M. I. T. captain into camp by the score of 3-6, 6-3, 6-2. C. W. Maskell, seeded number seven, was beaten in his first match by R. C. Bell. With the wealth of talent in the tournament it will not be surprising to see a number of other upsets in the early rounds.

Worcester Tech Next On Soccer Team's Schedule

Expect Good Game Saturday At Worcester—Rain Slows Up Practice

Rain has considerably hampered the soccer practice of the last few days. However the boys are working hard in order to be in shape for the Worcester Tech game Saturday. They will have a slight advantage as they will be playing on their own field. Worcester is not considered a very strong team, but they are going to do their best to hand the Cardinal and Gray a drubbing.

Better teamwork is the chief need of the Technology soccer team. Last Saturday was the first time that the men played together as a team, and they showed that they need a little more practice in order to perfect their teamwork. The offensive is going to spend the rest of the week in perfecting their organization and passing combinations which were more or less lacking in last Saturday's game. Coach Welch says that the lineup this week is going to be slightly different than it was at the Northeastern game, but he will not disclose any of his proposed changes at the present time.

Halfbacks are still the chief cause of worry to the defense. They did not show up very well against Northeastern and they need a lot of work and plenty of practice. The fullbacks also need considerable practice as they missed a number of balls that came right to them last Saturday. Next Saturday ought to see a much better defense and fewer balls are going to be missed as the men are working hard to perfect this fault. Ted Riehl showed up fairly well last week and managed to keep the right side of the Northeastern forward line pretty well in check.

Passing and team play were in general the chief defects of last week's game. The men did not know each other very well and had considerable difficulty in placing their shots. This was particularly noticeable in the forward passing. Time and again they would shoot a ball right to a Northeastern man. The men know each other better and this Saturday much fewer shots are going to fall into Worcester's hands.

Gym Schedule

Feb. 10—Annapolis at Annapolis.
Feb. 11—Temple at Philadelphia.
Feb. 24—University of Pennsylvania at home.
Mar. 3—West Point at West Point.
Mar. 10—Dartmouth at Hanover.
Mar. 17—Open.
Mar. 24—Intercollegiate at home

SOPH ELEVEN HOLDS PRACTICE IN RAIN

Workouts for Saturday's Game Taken Despite Weather

Rainy weather such as has been the last two afternoons seems not to have dampened the enthusiasm of the Sophomore football men. On both afternoons the eleven has been out carrying the oval up and down the field. The team evidently intends to be in good shape for Saturday's game and from the way the plays went through, their opponents will have to step lively.

Saturday brings the opening of the season for the second-year outfit. The game will be played at Lawrence Academy. Lawrence always has a good team, so the Sophomores will have to be at their best to make a good showing against the prep school players.

Practice for the last two days has necessarily been light due to the weather, but Coach Joe Parks plans to have the team put in a good stiff scrimmage this afternoon. This scrimmage will take in all men who expect to get into Saturday's game and will be the basis for the final picking of the lineup.

EASTERN COLLEGES HOLD GYM MEETING

At a meeting of the New England Intercollegiate Gymnastic League at which Technology was represented by Gym Manager Wiley, held in New York this last week end, action was taken to establish uniform rules for the meets held in this league. Representatives from West Point, University of Pennsylvania, Temple, Dartmouth, Princeton, and M. I. T. elected an advisory committee which will have the drafting of such rules as its immediate duty.

In the course of the discussion it was suggested that the rope climb be discontinued as an event in this year's gym meets and that the long horse be substituted in its place.

SOPHS LOOK GOOD IN ROPE PULLING PRACTICE HEAVES

Lack of Freshman Candidates Gives Second Year Men Big Advantage

As far as the Sophomores are concerned, Tug of War is coming around in a pleasing manner. On the other hand, taking the frosh point of view, the situation presents a woeful tale. Checking up on the registration of the respective teams, the Sophomores have more than a full team out with 70 percent of last season's champion team which pulled the class of '29 off their feet in two short fast pulls last Field Day.

This is the second week of practice and only three frosh have signified their intentions of doing their part on Field Day through the Tug of War. Carl J. Bernhardt '28, Supervising Manager of Tug of War, has been coaching all candidates from both classes during the last two weeks and reports that the Sophomores look as if they would have little trouble in winning for the second successive year.

Almost invariably the freshmen have lagged slightly in attendance behind the Sophomores but wake up to the fact that there is such a thing as a Tug of War team within the last week of practice when it is then too late to develop a finished team. During the past two afternoons practice was discontinued on account of inclement weather conditions. However, practice will be held this afternoon at 5 o'clock in back of the track house for both teams. It is the duty of all frosh not out for another Field Day team to report with an old sweater, ready to practice.

SOPHOMORE FOOTBALL

The Sophomore football team will hold a scrimmage this afternoon at 4 o'clock on Tech field. The lineup for the Lawrence game will be chosen after the scrimmage and no man not present will be able to make the trip Saturday.

CROSS COUNTRY

Technology's freshman cross-country team, under the leadership of their newly elected captain, Richard Baltzer, took a workout yesterday, in spite of the rain, on the Harvard course where they will meet the Holy Cross yearling team on Saturday.

Announcing Sixth Intercollegiate Ball

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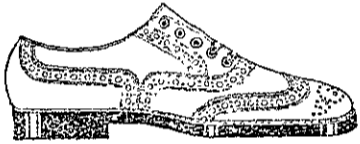
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It is still the day of the trail blazer. In the telephone industry pioneers are cutting new paths in the knowledge of their art.

This industry is continually on the threshold of new ideas, with each development opening up a vista for its explorers to track down.

Their activity will be as engineers in laboratory research and plant operation,

but also in supervisory and executive positions—planning the course of activity for groups of men and carrying the burdens of administration.

The responsibility and opportunity of management take on an increasing importance in an industry such as this, where forward-looking leadership must point the way to ever better public service.

BELL SYSTEM

A nation-wide system of 18,000,000 inter-connecting telephones



"OUR PIONEERING WORK HAS JUST BEGUN"

CHEMICAL SOCIETY WILL GIVE SMOKER

Feature of Program Is Talk by H. M. Smith, Professor Of Chemistry

The Technology Chemical Society will give a smoker in North Hall, Walker, tomorrow night at 7:30. An interesting program is promised, the feature of which is a talk by Professor Henry M. Smith of the Department of Chemistry on "Energy Expenditures During Physical Exercise." The Colgate Manufacturing Co. has supervised a moving picture dealing with the relation of soaps and fabrics which will be presented along with one of the well known Aesop's Fables. Freshmen and any others who have had no previous opportunity to join the Society may do so at the smoker upon payment of a dollar. Announcements of the trips that have been planned for the year will also be made at that time.

FACULTY CLUB WILL HOLD MEETING TODAY

Technology's Faculty Club will hold its first meeting in Room 10-250 this afternoon. The program for the meeting has been made up and several things of importance are to be discussed and decided upon at this time.

It is at this meeting that the men who have successfully completed their summer work will be recommended for degrees. There are also some changes to be made in Course XVI and these will be decided upon by the faculty today.

FIFTH YEAR VI-A MEN WIDELY SCATTERED

Graduate students in the Stone and Webster option of Course VI-A have been assigned to widely separated posts. Mr. Josiah T. Newcomb '27 is farthest removed, being now at work in Beaumont, Texas, with the Gulf States Utilities Co. His work takes him from one to another of several plants and offices in Texas, and includes many responsibilities.

Mr. Thatcher H. Mawson '27 is with the Virginia Electric and Power Co., where he is making a study of station equipment and operation. Mr. William K. Cave '27 who is with the Edison Electric and Illuminating Co. and Mr. Joseph W. Hammond '27 with the Fall River Gas Works Co. are also members of the group, whose assignments terminate December 3. At that time they will return to the Institute.

MANY ENROLLED IN LOWELL INSTITUTE

Lowell Institute, an evening school held in the Institute buildings, opened its 25th anniversary year on October 3rd with a registration far exceeding those of former years. The courses are given by the Massachusetts Institute of Technology and in the first two years will consist of Mechanical, Electrical and Building courses. Two advanced courses, "Reinforced Concrete Design" and "Telephone Transmission," will also start at this time while the rest start soon after Christmas. These courses are free and are an opportunity for young men who wish to fit themselves for higher positions.

Intercollegiates

A new club was recently organized at Virginia Tech whose membership will consist of students who are working their way through college. Among some of the benefits that the members will derive is a 10 percent discount on purchases at many of the local stores. Arrangements are being made to establish an alumni loan fund for the use of those who are in urgent need of money.

According to Dean Palmer of Haverford College a college diploma is worthy seventy-two thousand dollars, almost two times the value of a high school graduation certificate. He bases his estimate on a survey made by the Boston University College of Business Administration.

Coach Knight of Wesleyan University is at present bemoaning the fact that his team lacks a mascot. He claims that Yale's "Handsome Dan" the Army's goat and the Navy's muir have been invaluable assistants in football games.

The Health exams at University of Minnesota showed that out of every 50 students entering the institution only one could be proclaimed physically perfect. The prevailing deficiency was found to be faulty vision.

Student Gives Candy Away; But It's Not His

Institute students are extremely generous. That fact is being ably demonstrated by one of them who goes around giving away candy. Dressed as a sailor, he goes around Horticultural Hall in Boston at the annual food show, and he gives, to all who wish—crackerjacks.

In response to a request from the company manufacturing the confection, the student was secured to do the work by the Undergraduate Employment Bureau of the T. C. A. Many other positions are being secured by the bureau, and Mr. Pennell N. Aborn, its director, advises all students who are listed in it to look at the Bulletin Board by the entrance to Building 10 at the Cashier's office to find out if they are wanted in Walker or if the bureau has anything he would like.

AERO SOCIETY WILL HOLD FIRST SMOKER

Professor Chatfield to Speak On European Aviation

Professor C. H. Chatfield will be the speaker of the evening when the Aero Society holds its smoker on Thursday evening, Oct. 20, in room 3-270.

Professor Chatfield will tell of his experiences this summer, and will discuss his observations of European air lines and aeronautical engineering practice. He has recently returned from a very extensive European trip, and will be able to discuss many phases of European aeronautical development, including engineering practice, methods of production and operation, as well as operating equipment. The smoker will be open to all who are interested, and any who wish may become members of the Aero Society.

Statistics taken at Willamette University show that thirteen of the twenty-five men of the last year's football squad flunked out.

FIRST DORM DANCE FRIDAY IN WALKER

Technology's first Dorm dance of the year takes place in the Main Hall, Walker, Friday at 8:00 o'clock. This is the first open affair of the year and a real crowd is expected. The Tectonians will furnish the music.

Tickets may be purchased in the Main Lobby any day this week between the hours of 12 and 2 o'clock. They are being sold at the usual price of \$2.00.

THE TECH BOOK LIST

(Continued from Page 2) most gifted contemporary could make it.

Into the pages of this thrilling narrative, have been condensed the pith and moment of countless files. The spirit of the plain, the mountains, the trails stretching through the virgin wilderness permeate its very substance. The courageous men, who in mere handfuls accomplished more than two armies, again ride their path of justice on their inseparable mounts. Not that one needs to draw a moral, but the incontrovertible evidence speaks the fact that tact, judgment, and fairdealing have done far more than brute force.

In "The Silent Force" we have an epic of the last frontier, dramatic in its portraiture, romantic in its color, and vitally truthful in its every element. F. M.

SHOW MUSIC WRITERS WILL MEET TONIGHT

Music and lyric writers for Tech Show 1928 will hold their first meeting in the East Lounge, Walker, tonight at 7:30 o'clock. At the meeting Charles Young, musical director of the Show, will be present and will outline the needs of this year's production.

Parts of the scores of past Shows will be gone over in detail, and work will be started on the music and lyrics for the coming production. Inexperience should not deter students who want to write either music or lyrics, since it is not required by the Tech Show directors.

Notices and Announcements

T. C. A. DRIVE

Pledges which were made during the late T. C. A. drive may be redeemed at either the front or back office of the T. C. A. in the basement of Walker.

RADIO SOCIETY

There will be a meeting of the Radio Society tomorrow afternoon, Oct. 20, in room 10-200 at 4 o'clock. Mr. Frank G. Kear will be the speaker of the afternoon.

POLO CLUB

There will be a meeting of the Polo Club in the Faculty Dining Room on Thursday, Oct. 20, 1927, at 5 o'clock.

TECH SHOW MUSIC AND LYRIC WRITERS

There will be a meeting of all music and lyric writers of Tech Show in the East Lounge, Walker, tonight at 7:30 o'clock.

RIFLE TEAM

Varsity practice will be held on Mondays, Wednesdays and Thursdays at the rifle range from 1 to 5 o'clock. Freshman practice is on Tuesdays and Fridays at the same place and time.

COURSE VI-A MEETING

A meeting to discuss VI-A activities will be held today at 10 o'clock in room 10-275. Junior, Senior and Graduate classes will be omitted from 10 to 11.

BOXING

There will be a mass meeting of all boxing candidates in the Hangar Gym on Friday at 5 o'clock. Freshmen are urged to be present.

FRESHMAN BOXING

Freshmen who wish to substitute Boxing for P. T. must sign up in Walker before Wednesday, Oct. 26, at 12.

FRESHMEN COXSWAINS

All freshmen under 125 lbs who wish to become coxswains should report to Coach Underwood at the boat-house any afternoon this week.

FRESHMAN ATHLETICS

Members of the Freshmen Class who wish to substitute athletics for Physical Training Classes must sign up at once in Room 335, Walker Memorial Bldg. These lists close on Wednesday, October 26th, at 12 o'clock.

FRESHMAN CAMP PHOTOS

Freshman Camp photos are now ready in T. C. A. back office.



STONE & WEBSTER

INCORPORATED

DESIGN steam power stations, hydro-electric developments, transmission lines, city and interurban railways, gas and chemical plants, industrial plants, warehouses and buildings.

CONSTRUCT either from their own designs or from designs of other engineers or architects.

OPERATE public utility and industrial companies.

REPORT on going concerns, proposed extensions and new projects.

FINANCE industrial and public utility properties.

NEW YORK BOSTON CHICAGO

Ain't It a Grand and Glorious Feelin'?

By BRIGGS



OLD GOLD

The Smoother and Better Cigarette

.... not a cough in a carload

