

SPRING CONCERT WILL BE HELD AT STATLER TONIGHT

Elaborate Costume Display in
"A Russian Spectacle",
Feature Act

TICKETS ON SALE TODAY

Four Hours of Dancing Follow
Concert—Music by the
Techtonians

One of the major social events of the season at the Institute, the Annual Spring Concert and Dance of the Combined Musical Clubs, will be held this evening in the Imperial Ballroom of the Hotel Statler. The concert will begin at 9 o'clock, and will probably be finished by 11 o'clock, in time to allow four full hours for dancing, which will end at 3 o'clock. In order to shorten thus the concert, each of the Clubs will make only one appearance.

The specialty act of the evening, entitled "A Russian Spectacle," will be featured by a colorful display of costumes. Mr. and Mrs. Boris Alexandre Berestneff will appear in this number, Mrs. Berestneff singing the solo part assisted by Miss Sylvia Armstrong, guest soloist, and a double quartet from the Glee Club. During this number Mr. Berestneff will introduce a novel musical instrument known as the Troyka. A new song written for the occasion by Mr. Berestneff will be sung by the Glee Club during the evening, and it is hoped that this song will catch the popular fancy and become a tradition at Technology.

Many Tickets Sold
Tickets for the concert, priced at \$5 a couple or \$3 stag, have been on sale for some time, and the management reports that a large number have already been sold. However, those who have not yet secured tickets will find them on sale in the Main Lobby today from 12 to 2 o'clock, and at 62 Massachusetts Avenue and the entrance to Building 2 at 9 o'clock this morning. They may also be obtained from any member of the Clubs management at any time today, or at the door tonight.

According to the management of the Clubs, much time and effort have been spent in trying to make this concert the most successful ever given by the Clubs. The reduction of tickets from last year's price of \$6 and the shortening of the concert with consequent lengthening of the hours of dancing represent two attempts by the Clubs to please the patrons of the affair. The management expresses the hope that the students will sup-

(Continued on Page 4)

TECHNOLOGY REVIEW TO FEATURE FLYING

The May "Technology Review" will be devoted to aeronautics and will probably go on sale tomorrow in the Main Lobby. Symposiums have been written by many of the aeronautical experts of the country and there are three Institute men who have written for this month's publication. They are Mr. D. C. Sayre, Mr. M. Rauscher, both of whom are instructors, and Mr. Jerome C. Huntsinger '12.

Temperature Measurements Studied In Physical Chemistry Laboratory

Precision Instruments Developed
to Make Accurate Check
of Gas Scale

(This is the fifth of a series of feature articles describing the work progressing in the many interesting laboratories and experiment stations in the Institute. Watch for more of these—learn to know Technology.)

Investigation and development of extremely sensitive temperature measuring devices is one of the many problems upon which the Research Laboratory of Physical Chemistry is now working. The significance of accurate temperature measurements in practically all fields of research makes this investigation of great im-

portance to science. In the Research Laboratory of Physical Chemistry itself where slight deviations from the perfect gas law are studied it is evident that precise temperature measurement is of utmost importance.

Dr. Frederick G. Keyes is in charge of the Laboratory and the investigation of thermodynamic temperature scales has been carried on under the direction of Dr. James A. Beattie by Mr. David D. Jacobus and Mr. T. S. Hsu.

Objects of the Research

The immediate objectives of the thermodynamic temperature scale investigation are: first, an accurate re-determination of the zero point of the absolute scale; and second, a cali-

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Students Fighting in 1928 Technique Rush



TECHNIQUE KIOSK READY FOR BATTLE

Students Wear Ragged Clothing
to Struggle in Grease
and Oil

Another of those long awaited opportunities for the Technology undergraduate to vent some of that pent up enthusiasm is here again. On the baseball diamond tomorrow afternoon at 3 o'clock will occur that annual struggle of struggles, the Technique Rush, in which sane men go mad in the tenseness of the battle for a mere wooden paddle.

As an opening event for this most precious tradition of Institute history the retiring and incoming Managing Boards of Technique will march onto the field accompanied by the inspiring music of Scottish bagpipers. After they have formed around the miniature fortress, Eddie Morris that vibrant voiced announcer of the Harvard Stadium will make public the elections to the 1930 Technique Board as well as the rules of the contest.

After this announcement one pistol shot will herald the appearance of the first paddle from some source known only to these high and mighty in Technique management. This feature has always been a surprise and this year promises to be no exception. When the struggle for this much prized paddle has ceased two shots will rend the air thus drawing everyone to the ropes. The hut will then be smeared with coats and coats of the slime grease known to Technology chemical circles.

Another shot will then signify that this job has been done to everybody's satisfaction and will release the mob. From the top of the hut paddles will appear at periods of one minute. Twenty such paddles will be given out of which only numbers 1, 2, 3, 4, and 20 are good for free Techniques. All the copies of the yearbooks won in the rush will be autographed by President Stratton. Those fortunates who wrest paddles from the midst of that mass of struggling students should report at the desk as soon as possible. Copies of the books may be obtained in the check room at Walker Memorial at the end of the rush.

VARIED EXHIBITS PLANNED TO ENTERTAIN CROWDS EXPECTED AT TECHNOLOGY SATURDAY

Colonel Frank L. Locke States Purpose of Annual Open House

Colonel Frank L. Locke, Chairman of the Open House Committee says:

"Open House, instituted and sponsored by the Students' Combined Professional Societies, aims to acquaint the community, particularly industry and young people of college age, with the importance of technical training and with Technology's equipment and facilities for scientific and engineering education.

"Exhibits will be given in all departments, showing novel and interesting industrial processes and appliances. Laboratory and lecture room demonstrations will illustrate Technology's practical method of training. Representatives of industry, many of them Technology graduates, earnestly co-operate by exhibiting interesting new machines and appliances, developed as the result of training secured at M.I.T.

"Not the least in interest in the day's program will be the demonstration of student activities, giving evidence that, in spite of the strenuous and work-a-day character of our student life, there is ample time for social and recreational diversion."

Guard Mount To Be Presented By Freshman Squads

Freshman Band Will Play for
Formal Drill, and Give
Short Concert

According to the final plans for the participation of the Military Science Department in the Open House Day activities for tomorrow, there is to be a formal Guard Mounting, which will commence at 4 o'clock, just after the annual Technique Rush, and which will probably last about half an hour. The R. O. T. C. Band, which has been under the direction of Arnold S. Ackiss, '31, this year, is to play for the drilling, and following the conclusion of the Guard Mounting, will give a half hour's concert of selected marches and concert pieces. One squad has been chosen from each of the five freshman companies to take part in the Guard Mounting, and the rest of the freshman R. O. T. C. members will serve on the guide duty arranged for the convenience of the visitors.

Members of the Advanced Corps of the local R. O. T. C. unit have been assigned for special guide duty, and to serve as ushers at the informal reception in the Main Foyer from eight until nine o'clock, when President Samuel W. Stratton will receive the guests of the evening. Members of the advanced Corps will also be in charge of the freshman guide service.

SIGNUPS FOR SENIOR WEEK START MONDAY

May be Obtained at Booth in
Main Lobby All Week

According to an announcement by the Senior Week Committee, signups for the senior week events may be obtained at any time next week, a booth being maintained in the Main Lobby every day for this purpose. They may also be purchased from any member of the Senior Week Committee.

The signup for all events will cost \$5, the redemption being \$13, and includes the Prom, the Pops Concert, the Picnic, the Banquet, and the Tea Dance. Those who desire to attend only the Prom may sign up for \$3, the redemption being \$9; while a sign-up for all events except the Prom will cost \$2, with \$6 redemption.

All the Seniors who wish to participate in the events of Senior Week are urged to obtain their signups as soon as possible.

STUDENTS PLAN TO ENTERTAIN GUESTS

Skits and Musical Program Will
Be Given in Walker
Memorial Gym

With the idea of showing the visitors that at the Institute it is not all work and no play, the various student activities have planned several programs for Open House Day. Plays and skits have been arranged for the evening and during the afternoon there will be three crew races, the Technique Rush, a Guard Mount, and a Band Concert.

At three o'clock the Technique Rush will be held on the Athletic Field. This annual contest has always attracted many students and promises to be an exciting event. Following this a picked company from the freshman R. O. T. C. Battalion will mount guard and at the same time the Varsity, Junior Varsity, and 150 pound crews will race Princeton on the Charles. Until five o'clock the freshman Band will give a concert. From four to six o'clock there will be exhibitions of wrestling, boxing, gymnastics, and fencing in Walker Gymnasium.

Beginning at seven o'clock the guests will be entertained in the gymnasium of Walker Memorial Building. The Tech Show will put on two skits, "Interviewing the Dean" by Harold C. Pease '29, and "Subterfuge" by Richard N. Chindblom '30, and several dance numbers from the 1929 Tech Show, "Doin' the Raccoon," and "Theres a Rainbow 'Round My Shoulder."

Technology Among First to Enter New Field in Public Health Engineering

New Option in Course VII Offers
Certain Possibilities
for Graduates

Designed to meet the ever-increasing demand for scientifically trained sanitary engineers, a new option in Course VII, Biology and Public Health, is to be incorporated into the Institute curriculum. With this new course, styled "Public Health Engineering," Technology enters a new field—practically no schools in this country are making any effort to meet the specific demands of the times.

Professor Samuel C. Prescott '94, head of Course VII and in charge of this option, is hopeful that interested students will investigate fully the pos-

sibilities of the new option. It differs considerably from the present schedule in biology and public health, and will devote more time to hygiene and bacteriology.

The option will include a number of subjects relating to chemistry and sanitation in general. Water supplies, sewerage, sewage disposal and rural and camp sanitation will form an important part of the schedule of study. Factors that affect the health and comfort of the public such as insect control, factory and street sanitation, and the abatement of nuisances from gases, smoke and noise will be dealt with.

City Milk Supply Investigated
The improvement of city milk sup-

(Continued on Page 6)

INSTITUTE DOORS OPEN WIDE TO ALL BOSTON SATURDAY

Model Railroad Showing Use of
Automatic Control is
Feature Exhibit

MANY GUESTS EXPECTED

With every laboratory, office, and classroom open and many special exhibits planned Technology will act as host to thousands of people who will visit the Institute tomorrow. Final plans for entertaining the many guests have been made and everything is in readiness for the Seventh Annual Open House.

Doors Open At 2 O'clock

Promptly at two o'clock the doors of the Institute will be thrown open to the public. Within the buildings are many exhibits designed to show our guests what is being done for the advancement of science at Technology and the other features of undergraduate life. Started seven years ago by the Combined Professional Societies, "Visitors' Day" has proved to be popular among the people of Boston and the vicinity as shown by the large attendance each time.

Freshmen in their R. O. T. C. uniforms will serve as guides and conduct the visitors through the buildings. Other students will conduct experiments in the various laboratories showing the work that is done during the school year. Parking space has been provided and huge searchlights lent by the Army Corps will illuminate the dome and serve as a guide for the people in the evening.

The annual Technique Rush is scheduled for three o'clock on the Athletic Field and promises to furnish many thrills for the guests. Following this a picked company from the Freshman R. O. T. C. will put on a Guard Mounting and then a band concert. From 4 to 5 o'clock the Varsity, Junior Varsity, and 150 lb. crews will race Princeton on the Charles River.

From 4 to 6 o'clock there will be exhibitions of wrestling, boxing, (Continued on Page 4)

SCHWAMB LIBRARY IS GIVEN TO INSTITUTE

Mrs. Peter Schwamb has just presented the Mechanical Engineering Department with all the technical books in the private library of her late husband, Professor Peter Schwamb, who for many years was professor of Machine Design and was in charge of the Department of Mechanic Arts at the Institute. She has also given the Department two calculating rules which Professor Schwamb purchased in Germany.

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WELCOME!

TECHNOLOGY stresses Quality, not Quantity, and this ideal is carried beyond the actual curriculum. In a school with so few traditions, it is essential that those which we have be the finest. It is only once each year that we make a special effort to entertain, but since the custom was inaugurated six years ago this spring, the success of these days has grown so much that last year twenty thousand guests enjoyed the displays of the Institute's work. This year it is certain that that number will be increased.

To the friends and relatives of men at the Institute, we extend a hearty welcome. Whether you come to find out why your son is "flunking" chemistry, or what he means when he talks about "Engine Lab", or whether you feel a real personal interest in the latest developments of science, we hope you enjoy yourself and return to your homes and businesses satisfied with the day, and with an increased knowledge.

These displays in the main buildings demonstrate the phenomena which we students discuss in the classrooms. But our time is not confined to learning the why and wherefore, necessary as that may be. When he graduates, the Senior must have a competent grasp of these subjects, but—he must be qualified not merely as a student. He must have a much broader knowledge of life. This is only obtained in the student activities, and in gaining it the man must work hard and unselfishly, giving much and in return getting no pay except what he receives in character.

To Walker Memorial, the students' own building, we direct the special attention of our guests. In neglecting to learn of this phase of Technology life, visitors to "Open House" in the past have missed a great deal. It is in that building that all the undergraduate publications are written, it houses the gymnasium, it is there that the student comes for recreation. To make your day complete then, drop in at Walker. Without doing so you will have missed seeing a side to the life of the student almost as important as his actual study at the Institute.

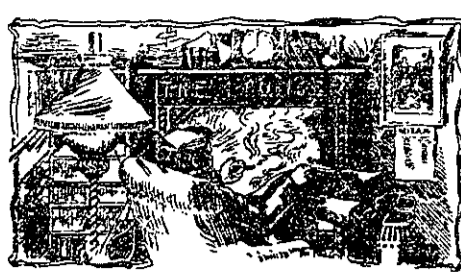
TECHNOLOGY AND PUBLIC HEALTH

ACCORDING to Mr. Langdon Pearse '01, Chief Engineer of the Chicago Sanitary District, he could use each year one or more graduates trained as Public Health Engineers. Nor is the situation in Chicago the exception—elsewhere throughout the country there seems to be a real demand for men in this interesting and useful field. It has been pointed out by officials of the United States Public Health Service that most courses in sanitary engineering are essentially civil engineering with a little bacteriology and chemistry grafted on, and that there is need today for men more deeply trained in biological and sanitary science, bacteriology and chemistry but who have also a grasp of engineering principles.

It is to supply this specific need that the Department of Biology and Public Health at the Institute has planned the option in Public Health Engineering. To quote the Department's report on the new option, "This schedule of studies covers, in fundamentals at least, the general range of training which seems to be demanded for men who desire to enter professional work in Public Health on the engineering side. Its purpose is to prepare men for the existing opportunities as at present exemplified by state and county engineers, the engineering work of the Public Health Service, and sanitation service by great private agencies (such as the Rockefeller Foundation) in various parts of the world."

While the details for the fourth year of the new option which opens next fall have not as yet been definitely determined, the schedule as thus far arranged through three years is of intense interest to anyone. It is ideally balanced, maintaining throughout a definite goal, and yet expanding to embody an excellent training in general engineering. All the purely engineering subjects, i.e., physics, chemistry, applied mechanics, structures, hydraulics, and testing materials and hydraulic laboratory courses are included. In the last two years there are given coordinated courses in the biology and chemistry departments from which the student gains a broad knowledge of practically all types of problems in sanitation which he will have to meet. Added to these is the summer course at Camp Technology, an experience invaluable to anyone.

Particularly to the uncertain freshman this new option offers great possibilities. From it he will graduate equipped with more general engineering than many courses offer, and will be fully qualified to enter a field in which there is at present a great dearth of competent men.



Progress—the modern keynote. The Lounger notes with interest that Walker cafeteria has installed a third rail, in the race to keep abreast of the times, but he suggests that they make a few dynamometer tests and iron out the roadbed a little.

The Lounger is picking no favorites for tomorrow's Rush, but he would like to see a larger proportion of fraternity men than there were last year. He means he really would, although without the services of Lou O'Malley, the dorms won't be nearly so formidable.

And he feels terribly insulted that nobody invited him to the dorms' own Open House scheduled for tomorrow afternoon. Not that he hasn't been invited to parties before, but you know how it is—he's going to buy more Listerine, and cross his fingers.

The Lounger just hopes, O, awfully much, that all those conscientious frosh in their monkey suits get rained on tomorrow. Not that they don't look funny enough when dry. What this school needs is a new model monkey suit. Then, maybe, by Godfrey, Bill Haines would have a bigger crowd of husky yearlings to trim the Navy in '31.

With all these rumors about the Varsity going to "keepsie, the Lounger sheds a fervent prayer that they won't all be crammed into upper berths, as they were toy and from Annapolis.

Tut-tut, these scientific men! The Lounger hears that Pop Drisko missed a business date by a whole week. He was scheduled to address the Business Management class of Messrs. Schell, Freeland and Fernstrom, but claims they told him a date which varied by seven whole days from the date recorded in their files—models of precision, and all that sort of stuff. Somebody's wrong, and the Lounger has a good idea who it is.

And now, about that regatta tomorrow. The Lounger warns his readers to wait on the Boston side, down at the lower end of the Esplanade, since the course to be rowed by the Varsity and Junior Varsity crews has been changed since last year. And then if it's a nice evening, there's nothing lost, if you get what the Lounger means.

The story is that some anonymous Santy Claus donated a brand new shell to the Princeton crew recently. One day a truck backed up to the Tigers' boathouse, unloaded the shell, and drove off—just like that! If the Lounger were playing Santy, he'd give The Tech crew two new shells, but he wouldn't stop there—Oh, no! He'd get a moving van, sneak up some dark night and drop off a new addition at Walker, and a new gym, with a swimming pool, and then shovel in some sod east of building 2. But he's a poor man, and all he can do is suggest that some alumnus who realizes the GREAT NEED may assure himself a seat in eternity right next the Lowells and Cabots, and secure the undying gratitude of Tech students by his donations.

The rifle team is preparing for the N. R. A. matches and hopes to make good in the Eastern championship competition. They have shown a remarkable skill in handling the pieces, and a victory would not come as a surprise to anyone.

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As We See the Movies

Mary Pickford in her newest picture, "Coquette," now showing at the State does a piece of acting that is truly a surprise. Instead of the usual poor forlorn creature that she has been in her past dramas, Miss Pickford comes back with surprising youth to play the part of a typical young Southern girl with all her "line" and vivacity.

Tasteful use of the Southern accent made possible by the Vitaphone adds considerably to a plot woven about a prosperous family somewhere south of the Mason and Dixon line. The story starts out with the old idea of the girl's lover being a seemingly worthless vagrant who is turned out by her father and then goes away to make good while she faithfully waits for him. But merit must be allowed in some degree for its ending is different than usual, and much more interesting.

Mary Pickford's acting matches so perfectly the action of one of the more common types of modern girls that it is exceptionally appealing. Although she stands out as the star, her supporting players all do the picture justice.

The vaudeville show is about average, or perhaps not quite up to that level.

D. T. H.

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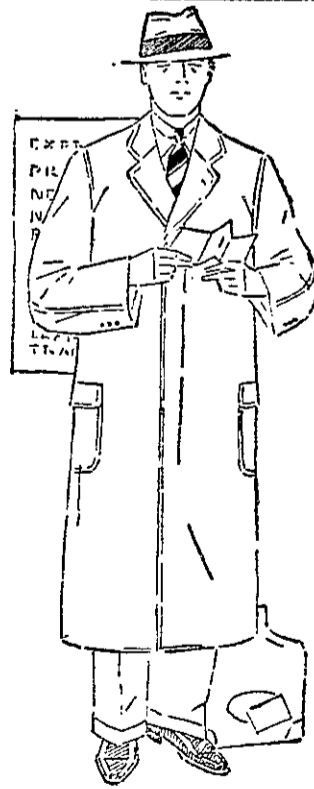
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CREW MEETS TIGERS TOMORROW

Close Race Is Expected When Technology Meets Fast Princeton Oarsmen

Events Will Be Run Off During Open House Day

Engineers Are in Best of Shape After Winning First Race With Navy

TIGERS WON LAST YEAR

With the greatest rowing event of the year very close at hand, the favorite to win out is still doubtful, and both crews feel confident of victory. The Varsity and Jay-Vees will row the mile and three-quarter, instead of the two mile course as planned, and the 150 pound crew will row over the Henley distance of a mile and five-sixteenths. The first race to be run will be the 150 pound at four o'clock, followed by the J. V.'s at 4:30 o'clock, with the final Varsity event at five o'clock. The 150 pound race will start just beyond the boathouse, ending in front of the Dormitories. The Junior Varsity and Varsity races will finish just before the curve in the wall on the Boston side.

Princeton Works Out Here

Arriving at 7:50 o'clock Friday morning, the Tiger crew will have a light workout over the course around eleven o'clock. About four o'clock, the Princeton boat will again row on the Charles, topping off with a short run Saturday morning. The lineup of the Princeton Varsity which will race Saturday is as follows: Bow, Ballantine; 2, H. Jones; 3, Lawrence; 4, Bennet; 5, Burkham; 6, Captain Thompson; 7 Pease; stroke, Clingerman; coxswain, Colmore. In workouts the first Princeton eight has made an impressive showing, and many sport writers feel that this year's boat will be as successful as the famous crew of last year.

M.I.T. in Fine Shape

Since the recent win over the Navy, the Technology crews have been working out regularly on the Charles. Monday the Varsity, Jay-Vees, and 150's had a light workout over the new mile and three-quarter distance in which the J. V.'s made a much better showing, making the second Princeton eight only a slight favorite to win the race. The Varsity is still in the wonderful condition and tip-top shape that enabled them to win over the famous Navy eight, and are favored to win by local critics.

Tigers Won Last Year

Last year, the Tigers won by half a length in a driving rain after the Technology crew had kept alongside the powerful Princeton eight for over a half a mile. In this race, the Technology Varsity started its final sprint a little too late, and the Tiger crew passed the finish line barely more than eight feet ahead of the Engineers. Before the race Technology was favored to win, which proved the advance predictions of writers to be of little value.

than three lengths to the faster Princeton oarsmen.

Princeton Has New Shell

Recently the Princeton Boathouse was presented with a new Mulloy shell, when a truck drew up at the boathouse leaving the shell with no identification other than a tag reading, "from a friend of Princeton rowing." Whether the new shell will be used in the coming race is still undecided, as the first eight has been working out in another boat.

Since there have been numerous changes in the lineup, very little is known about the 150 pound boat from Princeton, but indications point toward a victory for the light Engineer oarsmen. Although they have no races this year, they have been

rowing the course in fast time, which makes them favorites to win the first race of the afternoon.

As a reward for their remarkable work against Navy in the recent crew races, the Varsity and Junior Varsity eights enjoyed a free meal at the crew training table on Monday evening. This expression of esteem for the Technology athletes was donated by Messrs. Bridges and Carlyle of the Walker Memorial management.

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CAPACITY CROWDS EXPECTED AT OPEN HOUSE TOMORROW

Many Exhibits Prepared to Show Visitors What Goes on at Technology

MODEL RAILROAD EXHIBIT

Student Activities Arrange to Entertain Guests With Skits and Music

(Continued from Page 1)

and fencing in the Walker Memorial Gymnasium. At the Tech Show, the Combined Musical Clubs, and the Dramashop will entertain with skits and musical numbers. A debate between Princeton and the freshmen is scheduled for 3:30 in Room 4-270.

President Stratton will hold an informal reception in the Main Lobby of the Institute from eight to nine o'clock. He will be assisted by members of the instructing staff and C. Brigham Allen, president of the Senior Class. Cleofan, the women students' social organization will also hold an informal reception in the Margaret Cheney Room and the Emma Rogers Room.

Steps in Plane Design Shown

The Aeronautical Engineering Department has planned an exhibit showing the different stages in the construction of an airplane, beginning with the preliminary design and carrying the work through the testing of the model in the wind tunnel, final plans, and the actual construction and rigging. The large wind tunnel will be in operation showing an interference test on a propeller. Prize winning architectural designs will be exhibited in the Main Foyer and other work of students in the architecture course may be seen in Room 3-410.

Students in the course in Railroad Operation have set up a model of a regular railroad that illustrates the use of automatic block signals as used on regular trains. This exhibit may be seen in Room 1-345 and consists of a passenger and a slower freight train running on the same track. When the express overtakes the freight the former is automatically switched onto a siding and stopped until the passenger train passes.

Television apparatus, both sending and receiving, as developed by Mr.

Parked Perambulator Piques Passing People

Baby carriages are not a common occurrence at the Institute but one was parked in front of Building 4 in the Great Court part of Tuesday afternoon. The perambulator was empty except for a doll which the occupant was to play with. Several of the students who admired the vehicle found that attempts to ride in it were futile due to the mass of most embryo engineers. The buggy basked in the sun while those walking across the Court wondered at its presence.

Henry M. Lane, will be demonstrated in Room 3-111. The Department of Engineering Administration has on exhibition the latest office appliances and equipment for large and small offices, provided for students in the course as a part of the educational program.

As usual most of the engines in the Steam and Hydraulic Laboratory will be running including the 350 horsepower angle compound engine driving a 24,000 gallon per minute centrifugal pump supplying an open flume on the second floor. Next to this engine the new centerless grinder, the only one of its kind in the world, will be demonstrated. This machine grinds circular stock without placing it between centers and is

(Continued on Page 6)

Clubs Concert at Statler Tonight

Many Tickets Already Sold; May be Secured at Door This Evening

(Continued from Page 1)

port this event as well as they have similar functions in the past.

Chaperones at the affair will be Mrs. Robert P. Bigelow, Mrs. James R. Jack, and Mrs. William T. Hall.

The program for the concert will

1. Ballet EgyptienneLuigini
- Orpheus in den Untervel. Offenbach
- Blue DanubeStrauss
- Instrumental Club
2. Ave VerumMozart
- Hand Organ ManOthegraven
- Promis' Lan'Burleigh
- Glee Club

be as follows:

3. If I Had You
- Rosary
- Ida
- Somebody Stole My Gal
- Banjo Club

4. Russian Spectacle
- Mr. and Mrs. Boris Berestneff assisted by Miss Sylvia Armstrong and Glee Quartette.
5. Popular Selections
- Techtonians

6. Take Me Back to Tech
- Litchfield '98
- The Stein Song
- Words by Bullard '87

250 SENIORS SIGN UP FOR INSURANCE

Endowment Campaign Scheduled to Close Saturday Noon

Approximately 250 Seniors have signed up for the endowment insurance, the campaign for which will close tomorrow noon. This number does not quite equal last year's total of 261 but the committee expects to more than surpass that number by the time the drive closes.

Saturday will be the last day for examinations to be made at the Institute the appointments for which should be made immediately. All examinations after this time will have to be by special arrangement.

There are still approximately 50 Seniors who have not secured their policy as yet. They can be had by applying to Room 3-213, the headquarters for the campaign. The policies do not have to be paid for when taken.

VI-A TO HOLD PROM IN LONGWOOD TOWER


Longwood Towers will be the scene of a promenade to be held by the VI-A graduate students on Thursday, May 2, from 9 until 2 o'clock. For the occasion will be furnished the Collegian Ramblers. This is the first dance of this type to be held and it is expected to become an annual affair. Matrons will be Vanevar Bush (Mrs. William H. Bush), and Mrs. C. O. Bradshaw. VI-A and prospective VI-A students are invited.

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You will find the club-like Grill one of Boston's most hospitable and pleasing rendezvous—

And after the theatre, the Egyptian Room at the Brunswick. The Hotel Brunswick is proud that Leo Reisman has been selected by the Victor Talking Machine Co. as the foremost recent addition to their list of the world's Greatest Dance Orchestras. Leo Reisman and his orchestra may be heard nightly in the Egyptian Room from 6.30 to 2 A.M.

Hotels LENOX
and BRUNSWICK

M. I. T. RELAY TEAM RUNS TODAY

Technology Team Will Run Relay Classic at Penn

Men Will Enter One Mile Class B Championship and Sprint Medley Relays

CORNELL MEET ON MAY 3

This afternoon Technology will again participate in the Penn Relays after a lapse of one year. Last year the dual meet with the University of Maine came on the same date as did the annual Pennsylvania classic, thus making it impossible for the Engineer's relay teams to participate. Two races will be run by the relay teams; this afternoon they will run in the college sprint medley relay championship and tomorrow afternoon will race in the Class B One Mile College Championship Relay.

Won Second in 1927

When Technology last competed in the Penn Carnival two years ago they placed second to Michigan State College in the class B one mile championship. Michigan State had Aldeman, the Intercollegiate quarter mile champion, running anchor man for them, and the Engineer running against him was unable to stay with him until the finish.

Four-Man Team Picked

The team picked to run in this afternoon's race is composed of four men, Captain Hallahan, Ladd, Lappin, and Berry. They will have stiff competition, as there are sixteen colleges entered in the race, the colleges entered being Dartmouth, Penn State, Michigan State, Pittsburgh, St. Johns, Chicago, New York University, Holy Cross, Georgetown, Harvard, Oklahoma Baptist, Washington and Lee, Wisconsin, Ohio State, Syracuse, and M.I.T.

Tomorrow afternoon Captain Hallahan, Berry, Ladd, and Herberts will run in the one mile Class B Championship. There are not as many entered in the race but the competition will be none the less stiff. The men are to race against opponents from Delaware, Michigan State, Colgate, Fordham, Western State Teachers' College, Oklahoma, Baptist, and Columbia.

Prepare For Cornell Meet

These two races are the first extramural competitions that members of the team have participated in this spring. There have been several meets so far but all of them have been handicap and Interclass competitions. The first extramural competition for the team as a whole will come next week when the Varsity will go to Ithaca to engage in a dual meet with Cornell. While the relay team is away this week-end there will be a competition held on Tech Field to determine who are to make the Cornell trip. The meet will be held tomorrow and a regular schedule of events will be run.

Lacrosse Season Starts Tomorrow

M.I.T. Will Meet Boston Lacrosse Club, Composed of Stars at Old War Game

Technology's newly organized lacrosse team will open the season against Boston Lacrosse Club Saturday afternoon at four o'clock on the field behind the Coop. The game is one of the many athletic events featured in the Open House program, and will give those who have followed the progress of the Engineers in the newest Institute sport a chance to watch their first performance.

Conspicuous among the Engineer players are Captain Olmstead, Kocher,

Freshmen Lose to Exeter in Tennis

Exeter Team Wins Second Match of Season as Yearlings Succumb 6 to 3

Last Wednesday afternoon the freshman tennis team was defeated by the Exeter team by the score of 6-3. This was the second straight victory for the Exeter team and the opener for the yearlings. In the singles the two teams were evenly matched, each winning three matches. In the doubles the freshmen lost all three matches. The Exeter combinations showed better team work and worked very well together. The yearling team has had little practice so far and much can be expected of them in the future after they have played more games together.

Monger and Webber played the best tennis for Exeter when they defeated Bender and Semple, 6-2, 6-4. The score of the meet was as follows:

Singles—Monger (E) defeated Regan (MIT) 5-7, 6-2, 7-5; Semple (MIT) defeated Webber (E) 7-5, 6-2; Regan (MIT) defeated Francis (E) 7-5, 6-3; Delone (E) defeated Bunshaft (MIT) 6-0, 6-2; Ross (MIT) defeated Campbell (E), 6-4, 4-6, 6-4; Sevan (E) defeated Brewer (MIT) 6-1, 6-1.

Doubles—Monger and Webber (E) defeated Bender and Semple (MIT), 6-2, 6-4; Francis and Delone (E) defeated Regan and Ross (MIT), 6-4, 7-5; Campbell and Sevan (E) defeated Bunshaft and Brewer (MIT), 6-4, 6-2.

Freshmen To Meet Andover In Track

Yearlings' First Meet of Season to be Held on Andover Track Tomorrow

While the Varsity relay teams are competing at Philadelphia, Saturday, the freshman track team will be engaging in their first meet of the Spring with Andover. Last year Andover won the meet with the class of 1931 but the class of 1932 is confident and hopes to turn the tables in the coming meeting.

In the 100 and 220 yard dashes the freshmen have entered four men, Wayne, Corson, Wilson and Beck.

Matthews, Puffer, and Fricker who play in-home, first attack, third attack, out-home, and second attack respectively. All these men have had previous experience and the fact that they all play on the offense will give the opposing team plenty to worry about. Defense positions, however, consist wholly of new men and it remains to be seen what they can do.

Boston Lacrosse Club's twelve is composed of recruited collegiate stars from Harvard, Yale, Stevens Tech, Johns Hopkins, Princeton, and Syracuse. The team is considered one of the strongest in the East and has defeated Brown and Springfield early this season by comfortable margins. Among the lineup are Captain Reed, former Harvard star and Brown coach; Ellison, former Harvard goalie; Sullivan, Nightingale, and McQuaid, former Harvard star performers.

TENNIS TEAM WILL PLAY TWO MATCHES ON WEEK-END TRIP

Opening Meets to be Played With Amherst and Williams on Foreign Courts

SIX MEN TO MAKE TRIP

Today and tomorrow the Varsity tennis team plays its first two matches. Both of them are away from home and are with teams that have not yet had any intercollegiate meets. The team opens its season this afternoon at Amherst where Wigglesworth, Captain Cleary, Dame, Ferrer, Studley, and Searles will play for the Engineers. Tomorrow afternoon the team will go to Williams-town where they will play Williams in their second match.

Wigglesworth will play number one for Technology while Captain Cleary will play number two singles. Dame, Ferrer, Studley, and Searles will play three, four, five, and six respectively. The men are playing according to the ranking they have gained in the ladder tournament that has been in progress for the last two weeks. Dame and Ferrer are playing number one doubles while Wigglesworth and Cleary, and Studley and Searles are playing numbers two and three doubles respectively.

Williams Has Strong Team

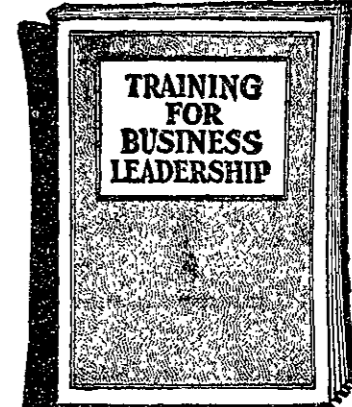
Williams has the same strong doubles team to represent them this year that won the New England Intercollegiate last year. The men that will oppose the Engineers at Williams are: Wolf, Sewall, Chase, Shoss, Adcit, and Clark.

Technology's number one man, Wigglesworth, was the runner up with Kuki in the New England Intercollegiate Doubles last year. He has been playing indoors all winter at the Longwood Tennis Club together with Dame and Ferrer. Cleary has not been playing with the other

members of the team this winter but has had indoor practice elsewhere. Studley was the captain of last year's freshman team and is expected to show up well in his first Varsity matches.

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NOTICES and ANNOUNCEMENTS

Of General Interest

Office Appliance Exhibit Room 1-245
Friday, April 26, 9 A.M. to 5 P.M.

This exhibit is under the auspices of the Department of Engineering Administration. Students and members of the instructing staff are cordially invited to inspect this equipment which represents a majority of the latest types of machines used in modern offices.

Metal Airplanes Mr. Charles Ward Hall
Friday, April 26, 4 P.M., Room 3-270

Mr. Charles Ward Hall, President of the Hall-Aluminum Aircraft Company, will give a lecture on "Metal Airplanes: Some Points in Their Design and Construction." The lecture will be illustrated with lantern slides. This lecture is primarily for students in Aeronautical Engineering, but any student or member of the instructing staff who is interested is invited. It is requested that all those who plan to attend will be at the lecture promptly at 4 p.m.

Dielectric Loss in Transformer Oils Prof. L. S. Ornstein
Friday, April 26, 4 P.M., Room 4-231

Professor L. S. Ornstein, Director of the Physical Laboratory at the University of Utrecht will give his last lecture in the series on "Dielectric Loss in Transformer Oils." The lecture is open to students and members of the instructing staff.

The Making of Seamless Steel Casing Mr. E. A. Crockett
Monday, April 29, 4 P.M., Room 4-270

Mr. E. A. Crockett, Manager of the Bureau of Instruction of the Jones & Laughlin Steel Corporation, Pittsburgh, Pennsylvania, will deliver a lecture on "The Making of Seamless Steel Casings." The lecture will be illustrated with moving picture films. The lecture is open to students and members of the instructing staff.

Switching Problems Dr. J. Slepian
Monday and Tuesday, April 29 and 30, 3 P.M., Room 10-275

Dr. J. Slepian of the Westinghouse Electric and Manufacturing Company will conduct the third colloquium of the series. The subject of this discussion will be "Switching Problems."

The colloquium is open to members of the instructing staff, graduate and senior students and the Junior Honors group.

Calendar

- Friday, April 26
 - 8:15—Combined Musical Clubs Spring Concert, Hotel Statler.
 - Varsity Tennis Team vs. Amherst at Amherst.
 - College Sprint Relay Races, Penn Relays, Philadelphia.
- Saturday, April 27
 - Open House Day.
 - Class B One Mile College Championship Relay, Penn Relays, Philadelphia.
 - Track Meet; Freshmen vs. Andover at Andover.
- Monday, April 29
 - 4:00—Lecture, "The Making of Seamless Casing," Room 4-270.
- Wednesday, May 1
 - 6:30—Corporation XV Monthly Dinner Meeting, Durgin Park & Co.
- Thursday, May 2
 - 9:00—Course VI-A Prom, Longwood Towers.
- Monday, April 29
 - 3:00—Colloquium on "Switching Problems," Room 10-275.
- Tuesday, April 30
 - 3:00—Colloquium on "Switching Problems," Room 10-275.

Chemists Devise Highly Accurate Gas Thermometers

Electrical Regulator Developed For Automatic Control Of Temperature

(Continued from Page 1)

bration of platinum resistance thermometers against this scale.

Determination of the zero point of the absolute scale is to be accomplished by means of a study of the coefficient of expansion of gases at constant pressure. Helium, hydrogen, and nitrogen will be used since they most accurately simulate the action of a "perfect gas". The accuracy of the experiments will probably lead to a slight revision of the present value of Absolute Zero.

Although platinum resistance thermometers which measure temperature by its effect on electrical resistance are widely used for making accurate temperature measurements, they have never been rigorously checked against gas scales. The second part of this research is to check the accepted platinum thermometer scale against the absolute temperature scale as determined by the gas thermometer.

Progress of the Work
Most of the work at the present time is being concentrated on the construction of gas thermometers. A number of secondary problems enter into this and their solution must be sought before a satisfactorily accurate gas thermometer can be developed.

For the automatically controlled constant temperature baths which are necessary specially built containers with mechanical stirrers have been devised. To keep the temperature constant an electrical regulator was developed. This consists of a resistance element immersed in the bath and forming one leg of a Wheatstone bridge. Any change in the temperature of the bath changes the resistance of the element and so unbalances the bridge. A sensitive reflecting galvanometer connected across the bridge reflects a strong beam of light on one of two photoelectric cells. These cells are so wired that the movement of the light between them varies the grid voltage of a radio tube whose plate current operates a relay which controls the heating current of the bath. With this sensitive arrangement the temperature can be controlled to within .001 of a degree.

For the extremely accurate work to be done it was foreseen that the slight expansion of the glass bulbs of the gas thermometers must be taken into account. For the determination of this expansion an interferometer has been purchased and measurements are now being made on various kinds of glass. The interferometer enables measurements within an accuracy of one ten-millionth of an inch to be made.

Apparatus has also been developed for measuring pressures to an unusual degree of accuracy. A two-meter double manometer encased in an air jacket in which the temperature can be controlled and two-meter invar scale calibrated to .2 millimeters are features of the special equipment for gas thermometry measurements.

Platinum Thermometers Built
The second part of the research program has been carried to the point where comparative data can be obtained. 9 series of thirteen platinum resistance thermometers have been built. These conform in type to those developed by the Bureau of Standards being of the strain-free and flat construction.

These instruments have been calibrated in the accepted manner at the ice, steam, and sulfur points by Mr. T. S. Hsu.

When the construction of the gas thermometers is completed a comparison of the two temperature measuring systems will be made. The improved facilities will make possible a much

Rooms for Condition Examinations Changed

Rooms in which the condition examinations are to be taken tomorrow have been changed. Instead of using Room 3-440 the following places have been designated: 2.20 (A to K) in Room 2-365; 2.20 (L to Z) 2-344; and 5.671, 8.341, 13.54, D21, Ec 21, E 21, and L 61 in Room 2-375.

Institute Starts Course In Public Health Next Fall

Water Supplies, Sewage, Rural And Camp Sanitation Part of Study

(Continued from page 1)

plies and the control of pasteurizing processes will also comprise the course. Some time will be given to city planning and to the designing of playgrounds and parks for the people. Until recent years these problems have not been regarded as within the field of the sanitation engineer but have been added on account of the rapid growth in city populations.

Under the present plan the new option requires two periods of summer work of six weeks each following freshman and sophomore years. Plane and hydrographic surveying, similar in content to that taken by students in civil engineering, as well as limnological fieldwork will be studied during summer camp. This last branch of fieldwork will consist of the testing of natural waters with reference to the content of dissolved oxygen, carbon dioxide and microscopic organisms.

Hygiene Study Very Important
A report of the American Public Health Association recommends that for any type of career in public health, whether in administration, research, or engineering, the training should include instruction in the following: physiology, bacteriology, community hygiene, control of contagious diseases and fundamentals of public health administration. From this list it is apparent that a knowledge of hygiene and of bacteriology is of prime importance and that the student must therefore be well-grounded in the broad aspects of these two subjects.

The addition of the new option to Course VII comes from a growing need for more specialized branch of health engineering. Heretofore students in the Department of Biology and Public Health have sometimes found difficulty in arranging for subjects to be included in the new course. Next fall this condition will no longer exist when the present plans for instruction will have been completed.

Includes Much Chemistry
In commenting generally upon the course Professor Prescott stated that "the proposed option stresses the public health aspects, while the present course in sanitary engineering places its emphasis on the civil engineering side and makes the public health aspect of rather minor importance. One of the most important elements of strength in the proposed option is the projected plan for bringing the chemical and bacteriological work of the third year into a unified and comprehensive course which is basic for all advanced work in sanitation."

more exact comparison of the platinum thermometer scale with the gas thermometer scale than has ever before been attempted.

Crowds Expected Open House Day

Visitors Will Experience Real Institute Hospitality on Saturday

(Continued from Page 4)

considered a revolutionary improvement in the field of mechanical engineering.

New Tool Steel Shown
A new tool steel composed of tungsten, carbide, and cobalt will be shown in use. This material is so hard that it will scratch sapphire, which ranks next to diamond in hardness and yet is tough enough not to break at high speeds. Tools made from this material will cut a groove in a carborundum grinding wheel. At the present time the cost of this alloy is \$500.00 a pound. In the Machine Tool Laboratory precision measuring devices will be on exhibition. Some of these use light waves and measure with an accuracy of one millionth of an inch.

A special exhibit of East Indian fabrics will be shown in Room 3-212. Motion pictures of the textile industry, "Romance of Rayon" can be seen in Room 5-330. Liquid oxygen demonstrations will be performed again this year in Room 3-370. Otto gas engines, diesel engines, and allied equipment will be exhibited in Building 38. The machines in the Testing Materials Laboratory will be in operation showing the way they are used by the students.

LECTURE ON CASING GIVEN NEXT MONDAY

Mr. A. E. Crockett, manager of the Instruction Bureau of the Jones and Laughlin Steel Corporation of Pittsburgh, Pa., will give a lecture in Room 4-270 on Monday, April 29 at 4 o'clock. The lecture will be "The Making of Seamless Casing." Moving pictures will be used to illustrate various points.

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If I am smoking any other brand my wife will tell me, as she likes the smell of only Edgeworth. When I'm smoking others she opens all windows and doors.

The reason for writing this letter is that I had a card party last night, and most all of the party asked me what kind of tobacco I used.

So I told them Edgeworth.

Yours very truly,
A smoker of Edgeworth
(Signed) E. E. Boisvert

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CORPORATION XV HAS LAST MEETING MAY 1

Noted Boston Business Executive to Talk on Business

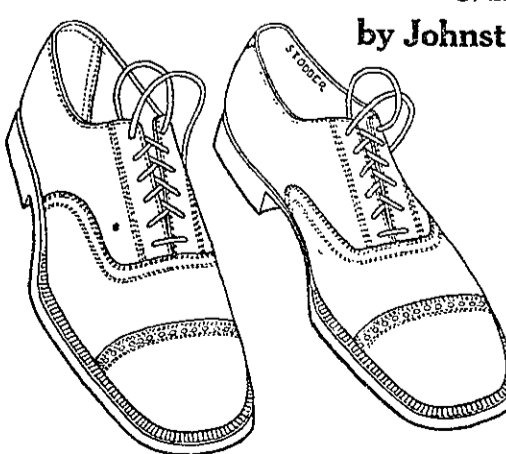
Mr. Howard Coonley will speak at the last Corporation XV meeting of the year which will take place at Durgin Park & Co.'s restaurant on next Wednesday evening at 6 o'clock. The new officers will be installed, a picture of Frederick W. Taylor given to the school, and a stock certificate presented to the winner of the Investment Association Contest, and finally a talk will be given by one of Boston's best-posted business men.

"Opportunities and Requirements for Success in Industry" will be the subject of the address by Mr. Coonley who is the President of the Walworth Company and is connected with a number of other concerns. The Technicians will furnish the music.

Tickets will be \$1.25 for members and \$1.65 for non-members. The banquet will be informal and signups should be made in Room 1-180.

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