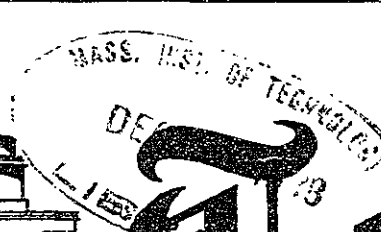
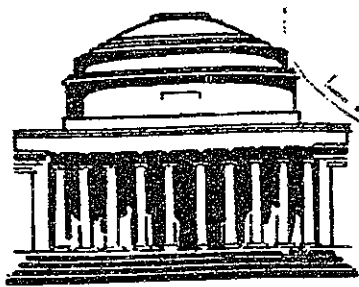


# EXTRA The Tech EXT



MISS PERRY  
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CAMBRIDGE MASS.



Volume LVIII, No. 50

CAMBRIDGE, MASS., FRIDAY, DECEMBER 9, 1938

Price Five Cents

## WAVE OF LOOTING SWEEPS FRATERNITIES, DORMITORIES; BOOTY ESTIMATED AT \$350

## Ice Men Lose Thriller To Brown

### 10-250 Filled For Compton's Talk on Rays

**Sigma XI is Sponsor of  
Speech by Expert  
on Subject**

**WON NOBEL PRIZE**

Arthur H. Compton, Nobel Prize winner, and brother of the Institute's President Karl T. Compton, yesterday afternoon addressed a capacity audience crowding every inch of sitting and standing space in Room 10-250 on the subject "Whence Cosmic Rays."

Dr. Compton was presented by Dean Samuel Prescott, President of Sigma XI, who sponsored the meeting, as the "world's most eminent authority on this subject today". His work on the rotation of the earth, the specific heat of solids, and the properties of X-rays has established him as one who in Prescott's words, has "dominated the whole field of scientific research."

(Continued on Page 4)  
Compton Lecture

### Mock Court Tries Vannevar Bush

**President Compton Acts As  
Judge, While V. Bush  
Is Defendant**

Charging Dean Vannevar Bush with "desertion, a serious crime punishable by sentence and only partially rectifiable by alimony," a group of the Institute officers tendered him a farewell dinner and mock trial which was presided over by President Compton at the Hotel Continental last Tuesday evening.

During the evening a list of Dean Bush's "sins," some fifty feet long, was unrolled. All came under the heading of "general cussedness."

**Trial Was Highspot**

The trial was the high spot of the occasion. Prosecutor was Professor William H. Timbie, who attempted to prove that not only had the accused committed the alleged crime, but that he was also sane. Defense counsel was "the firm of Millard, Russell, Schaeffer, and Harrison." They, in turn, freely admitted that their client was guilty as charged, but that he was not sane. Every time the name of the firm was called off, each of the gentlemen rose to take a bow, while Professor Harrison, who did most of the pleading, would take two bows, once to his colleagues and once to himself.

**President Compton is Judge**

President Compton, as judge, went through an immense amount of work to arrive at a decision. He produced intricate formulae and used a great deal of complicated-looking apparatus to finally sentence Dean Bush to "Vote Ten."

### America's Place In Research Discussed By A. H. Compton

By A. Lawrie Fabens, Jr., '39

"America is doing her part, but no more," declared Dr. Arthur H. Compton, noted physicist, referring to scientific and technological advances in an exclusive interview with the Editor of THE TECH Wednesday morning at the residence of his brother, Karl T. Compton, president of the Institute. Dr. Compton went on to point out that German advance in aviation and British development of fine machines are reputed to be superior to our own as examples that show America is not alone leading in science and technology.

Compton refuted the idea that technology is approaching stagnation, and stressed the importance of considering new and different elements with which the scientist is now working. Taking the production of power as an example, he explained that, while the efficiency of machines, such as steam and gas engines and electric genera-

tors, may still show an increase this will not be as radical a change as has been their development to the present time. On the other hand, he stated that important work is continually being done on new types of generators and motors that may eventually be substitutes for our entire present system with further development, or with change in the economy of available energy.

As specific examples of new ideas that are being constantly handed down from the scientist for the use of technology, Compton mentioned the fluorescent lighting system recently put on the market by the General Electric Company, the extremely low temperatures that are available to industry at reasonable cost, and the energy of atomic combination that, although it may now be liberated, has

(Continued on Page 4)  
Compton Interviews

## BROWN EDGES TECH

Edged out by the thankless margin of one goal for the second time in as many games, the Institute hockey team lost to a Brown aggregation last night by a score of 4 to 3.

Slated to break into the win column in this game, the Institute forces put up their best game of the year so far, only to see themselves barely outclassed in a rough and tumble game featured by seven penalties, mostly for tripping and holding.

**Brown Scores First**

The melee was hardly under way when Brown scored its first marker, in 37 seconds, and it was not until sixteen minutes later that Tech was able to push the puck into pay dirt, the score being made by Drury assisted by Neil.

Shortly after that Sage took a short rest—in the penalty box; and while he was absent from the struggle, Wood scored for Brown, in 19 minutes. Seven minutes after the start of the

middle stanza, Tech evened the score with a goal by Wood, and then forged into a lead twelve minutes later with pay-push by Neil, assisted by Drury.

**Brown Wins 3 Minutes from End**

Brown was not able to overcome this lead until the third period, when it tied the contest up with a goal in six minutes. The final and winning score came three minutes from the end of the game with a counter by Fletcher from Grow.

One of the major reasons for the Brown margin of victory was the exceptional playing of Buttrick, the Brown goalie.

This game leaves the Institute forces yet to win a game. So far this year they are getting the same break as last year when they lost many of their games by a one point margin. However, if they continue on in their stride as they are now, victory can be only deferred a short while, and they may yet end up the season in a blaze of glory.

### Bull Session Dinner To Be Held By Dorms

Apples will shine on the night of December 19, when the dorms hold another of their traditional Bull Session Dinners in North Hall. Over 120 men are expected to attend, and about fifteen professors will be invited to help throw the first bull at 6:00 P.M. The price per plate is \$.65, and the Dorm Committee will pay for the Prof's meal.

**Students Will Invite Professors**

As in the past, groups of seven or eight fellows will choose their own guest professor. Blanks for this purpose are available from Willard Mott, '41, chairman of the Dinner Committee. The affair is open to all students and their friends. Cigarettes will be served after the meal.

### Institute Team To Debate Bates College Tomorrow

A team representing the Institute will meet Bates College in a scheduled debate of the Eastern Intercollegiate Debate League Saturday, December 10th at 7 P.M. The contest will take place at Lewiston, Maine.

Samuel I. Omansky, '40, and Martin Ernest, '41, will represent M.I.T. Next week the Tech team will meet Bowdoin at the Institute. Both debates will be on the topic, "Resolved, that the Ludlow Amendment should be adopted". This week the Tech speakers uphold the proposal, next week they will oppose it.

### 3 Fraternities Raided; Dorm Men Victims In Early Morning Crimes

With the theft of over \$70 in cash from the Dormitories early yesterday morning, a wave of looting which has swept Technology fraternities and dormitories during the past week was continued. Estimated loot taken by the mysterious early morning prowler or prowlers from three fraternities and both the Senior House and undergraduate dormitories is more than \$350.

### Oarsmen Plan Spring Races

**Three Cup Meets Will  
Take Place On  
The Charles**

With the best balanced schedule in years in sight, the Institute Crews look forward to a banner season next spring when they will meet six of the nine member crews of the newly-organized Eastern Association of Rowing Colleges. Racing against such crews as Princeton, Harvard, and Yale, the Tech oarsmen will run into some stiff competition for the Compton, Wright, and Rowe Cups.

**Three Cup Races at Tech**

Races for all three are to be held in Cambridge. The Rowe Cup will be awarded to the winner of the race between Harvard, Rutgers, and Tech, the Compton Cup to the winner of the Princeton - Harvard - Syracuse - and M.I.T. race, and the Wright Cup at the 150 lb. regatta.

Other races scheduled include one at Ithaca, N. Y., where Cornell, Syracuse, and M.I.T. will meet, and another at Derby, Conn., with Yale, Syracuse, and M.I.T. competing.

(Continued on page 5)

**Crew Schedule**

### Dorms' Christmas Dance Will Be Held on Friday

"The Dorm Informal Christmas Dance will be the most informal affair that the hallowed walls of Walker have witnessed in many a moon," Norman R. Klivans, chairman of the Dance Committee declared last night. "It won't be a brawl, not by a long shot, but be sure to leave your stuffed shirt at home in the moth balls," he said.

The dance will take place on the evening of December 16th from nine to one to the music of Gene Dennis and his ten piece band. Featured with the band is Edna Creighton, soloist.

**Mistletoe is Included**

It was also reported that mistletoe would be placed at strategic points throughout the building, so that

(Continued on Page 4)

**Dorm Dance**

Entering four dormitory rooms during the early morning hours and rifling clothes of valuables while the victims slept only a few feet away, the marauder boldly escaped with an estimated \$70 in cash, and an assortment of driver's licenses, registration cards, and even cocktail recipes.

**3 Fraternity Houses Robbed**

Early Wednesday morning, two Boston fraternity houses were plundered between 2 and 7 A.M., the loot amounting to well over \$200. Sigma Chi, at 532 Beacon Street, was robbed of \$70 in cash, several watches, one clock, one portable typewriter, and a laundry bag. All rooms entered were left in excellent condition, with the rifled clothes neatly folded. Evidence indicated that the plunderer was familiar with the general layout of fraternity houses.

On the same night, Phi Sigma Kappa, at 487 Commonwealth Avenue, was robbed of a wallet containing \$12 in cash and a \$35 check, from a first floor room. The wallet was later found on the rear doorstep of the Sigma Chi house, with the check still in it.

**Theta Chi Theft First in Wave**

First crime in the recent wave occurred at the Theta Chi house, 528 Beacon Street, one week ago, early in the morning of Friday, Dec. 2, when

(Continued on Page 4)

**Robberies**

### Truck to Convey Student Tourists

**Tech Men To Tour Europe  
England And Scotland  
In Special Truck**

Tech men will again be given the opportunity to tour Europe in an informal manner at a minimum of expense, according to an announcement made by Allen W. Horton, Jr., '36, the leader of this year's tour. Horton was a member of the group that made a similar tour two years ago, and as leader this year he is busy making arrangements for additional novelties to be added to the itinerary.

It is expected that the tour will again follow the North-to-South route which proved so successful last summer. Beginning in England and Scotland, the tour will pass thru the Scandinavian countries, then Germany, Switzerland, France, Belgium and Holland, in approximately that order.

# The Tech

Vol. LVIII Friday, December 9, 1938 No. 50

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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## SATURATION POINT OF LECTURES

Last issue in an editorial we reached a conclusion that now appears to be erroneous. We stated that we believed that large gatherings would not continuously be supported by the student body, a statement that in the light of recent lectures in 10-250 can hardly be supported.

There is no doubt that there is a saturation point, and that lectures cannot be piled directly on top of each other and receive their due attention, but that point is at present far off as evidenced by the reception given Dr. Arthur H. Compton yesterday afternoon. Although 10-250 was not completely filled, there was a definite scarcity of good seats five minutes before the hour of the lecture.

A more correct conclusion, about the maximum number of such lectures, should deal with the number of good speakers who can be brought to Technology, as it is fairly evident that students will go to hear the best lecturers regardless of the amount of time they have spent attending lectures during the last few weeks.

## PERMANENT EVEN ARTIFICIAL SKATING RINK

Apparently there seems to be no doubt in the minds of the authorities that the expense incurred in the construction of a skating rink does not compare with the benefit and good it will do the health and well being of the students at Technology. Good health cannot be evaluated in terms of dollars and cents.

During the winter athletic activities are limited to indoor sports. Exercise in the open air is not available except to students who have the necessary time and transportation facilities to enable them to reach a skating rink or a toboggan slide. Some type of winter sport should add much to the campus.

The main objection to building a rink is the uncertainty that the rink will be a success. The land on the campus is not adaptable to a temporary rink, and weather forecasts for this winter, although favorable, are not sufficiently reliable.

If more money is invested and a permanent rink is constructed, the success of the rink will be more certain. The land can be improved so that it will hold water, and if weather conditions are not favorable one winter, the rink will always be available for the next. In the long run, a permanent rink would probably be a cheaper investment, even if artificial refrigeration had to be resorted to.

## MAIN LOBBY BULLETIN BOARD

You can't go to a game unless you know when and where it is. That is not an axiom, it is one of the reasons why there has been such a low attendance for the most part this year at Institute games.

Last year there was a nice large, conspicuous bulletin board in the Main Lobby, which gave the essential details about the week's athletic events. This year the bulletin board is notable by its absence.

In spite of the fact that most of the student body at one time or another gets a squint at each issue of THE TECH; nevertheless, the bulletin board filled a much needed gap in athletic publicity, and one which is missed this year.

The Walker Memorial Committee must still have the board hidden away in some cobwebby corner. Suppose the committee brings it out into the light of day again, and puts it to its proper use.

## THEFT

### VS. PROTECTION

Not only the Dorms, it appears, but all of Technology has been subject to constant petty thievery, such as the theft of slide rules, coats, books, and purses. Now it reaches a climax with unobserved sneak thieves prowling thru the dorms, resulting in the theft of actual cash.

This thievery is, of course, partly due to the carelessness of the victims, who left their doors unlocked as they slept, but there is evidently not adequate protection for the Dorms. To be sure, there is a police officer in attendance between 6:00 P.M. and 12:30 A.M., and a watchman who makes visits between 10:00 P.M. and 4:00 A.M., but there is no authorized patrol between 4:00 A.M. and 8:00 A.M.

Harvard solves such a problem by having its own police force composed of men who have been in contact with the students for years, and who can differentiate between students and strangers. It might work here.

## SCIENCE IN BRIEF

By ARTHUR M. YORK, '38

### Rainbow at Night

Lunar rainbows are observable so infrequently that even a close observer in the United States would see the phenomenon not much oftener than once in 30 years. Reasons why rainbows are not often caused by the light of the moon include the facts that (1) the moon is much dimmer than the sun, (2) the local shower, which is favorable to the rainbow phenomenon, occurs much less frequently after sundown than before, (3) the moon, rising in the east, is much more likely to be obscured by the heavy clouds of a local shower than is the sun, setting in the west, and (4) the moon is in the condition (full or nearly so) and position favorable to the production of a bow only on the average of one day in ten. (1)

### Sterilization by Light

After about five years of extensive research, an ultra-violet ray lamp has been devised which seems to be practical as a means of sterilization from bacteria. The "bactericidal" lamp, as it is called, is inexpensive to operate and can be used effectively to sterilize foods, cooking utensils, flesh wounds, and even the air. It is claimed that the lamps are 99.99 per cent effective and already they are in operation in the Mayo Clinic, New York Medical Center, and other hospitals. (2)

### Marihuana and "Swing"

It is said that large numbers of "swing" band players smoke marihuana because the drug increases their sensitivity to sound, gives a keener appreciation of rhythm, and releases inhibitions. But Professor Robert P. Walton, of the University of Missouri School of Medicine claims that, nevertheless, the "standards of performance are no doubt lowered." (3)

### "Oilless" Bearings

Metallic powders are compressed to form material from which "oilless" machine bearings are made. Interstices in such materials hold oil like a sponge and, when the temperature of the bearing rises, exude enough of the oil to prevent wear by friction. (4)

For more complete discussion of the above items, consult recent periodicals as follows: (1) Science, Nov. 25, 1938, p. 490; (2) Tech Engineering News, Nov., 1938, p. 126; (3) Science News Letter, Nov. 26, 1938, p. 240; (4) Technology Review, Dec., 1938, p. 74.

## Reviews and Previews

SYMPHONY—Menuhin recital Sunday at 3:30 P.M.

COLONIAL — Opening here Monday night. Max Reinhart's latest production. The Merchant of Yonkers, starring Jane Cowl, and written by Thornton Wilder.

UPTOWN — The new program beginning today is *Men with Wings*, starring Fred MacMurray and Ray Milland, and *Service DeLuxe*, with Constance Bennett.

LOEW'S STATE AND ORPHEUM — Janet Gaynor, Douglas Fairbanks, Jr., and Paulette Goddard in *The Young in Heart*. The second feature is *Spring Madness*, with Maureen O'Sullivan and Lew Ayres.

FINE ARTS — *Bob, Son of Battle*, Gaumont-British production, is a remarkably sympathetic and touching portrayal of the love of a Scot, Adam McAdam, for his killer dog. Will Fyfe plays the role of the disliked rascal, who would protect his dog with his life. Some exceptionally fine photography brings the beauties of the Cumberland Mountains to the screen. KEITH MEMORIAL — Drums with

Sabu, Raymond Massey, and Valerie Hobson is continuing for a third week. New co-feature is *Next Time I Marry*, with Lucille Ball. *Ferdinand the Bull*, by Walt Disney also continues.

METROPOLITAN—Submarine Patrol, with Nauey Kelly, Richard Greene, and Preston Foster opened yesterday. The co-feature is *Thanks for the Memory* with Bob Hope, Shirley Ross, and Charles Butterworth.

RKO BOSTON—The Marx Brothers in *Room Service* and Charles Bickford in *The Storm*.

PARAMOUNT AND FENWAY — The new Technicolor feature, *Heart of the North* with Dick Foran, Gale Page, and Gloria Dickson. The co-feature is *Sharpshooters* with Brian Donlevy and Lynn Bari.

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The Summer Session extending from June to September includes many of the undergraduate subjects given during the academic year.

For information about admission, communicate with the Director of Admissions.

Any of the following publications will be sent free on request:

- Catalogue for the academic year
- Summer Session Bulletin
- Educational Opportunities at the Massachusetts Institute of Technology

# Quintet Defeats Harvard 29-24

## Hard Fought Game Ending Harvard's Winning Streak Marks Season Opener

### Harvard '41 Win Over Freshmen

#### Both Teams To Play Tonight Against New Hampshire At Durham

With the enthusiastic cheers of a large Tech rooting section ringing in their ears our basketball team walked off the court in the Hangar Gym last Tuesday night after defeating Harvard by a score of 29-24. This was the first Tech victory over the Crimson in five years.

Spills and thrills certainly were the order of the night as the two teams battled throughout the game. No team could have fought harder and been more deserving of a victory than the team Tech had on the floor throughout the game. The Harvard team certainly did not measure up to their usual standards of past years but the spirit of the Tech team and the spirit of the rooting section gives hope for a successful season.

#### Freshmen Lose in Overtime

Almost not outdone by their seniors was the freshman basketball squad which dropped a heartbreaker to the Crimson yearlings in the preliminary game. The freshmen came from behind and tied the score in the last few minutes but the Harvard freshmen eked out a victory in the overtime.

**Teams Play New Hampshire Tonight**  
Tonight the varsity and freshmen are to be the visiting teams in the opening of the New Gym at New Hampshire State. Both teams are in for hard fights from the teams across the border.

#### Varsity Starts Out Strong

The varsity team gathered a sizeable lead in the opening few minutes of the game with Harvard. Schneider, at Center, was the first to score in the game as he made a field goal for Tech. This was followed in a short time by another goal made by Creamer, playing guard. An over-anxious move on the part of a Tech player gave a free foul try to Legg of Harvard, which resulted in the first point for the visitors. However our team quickly retaliated with three field goals made successively by Creamer, Samuels, and Wilson.

It was at this point that Harvard was finally able to secure the ball and make a field goal. However, again our team came back and Herzog scored another two points for us bringing the score up to 10 to 1 in our favor. The next two minutes of play netted Harvard three points, all scored on free trys. At this time the Harvard team called for a "Time Out" and it could be clearly seen that after six and a half minutes of play they were worried.

#### Score 12-10 at Half Time

As the teams went back into play Harvard made one point and we made two points on foul shots. Then Peabody of Harvard obtained the ball and from an "off-side" shot scored two more points for Harvard. Quickly regaining the ball the same player scored another field goal which was followed by two points for Harvard made by Lutz on foul shots. Thus at the end of the half the score was 12 to 10 in our favor.

The second half was full of action as Harvard opened the scoring by sinking a field goal early in play. This was followed by a field goal for Tech made by Herzog. Creamer was then pushed just as he was about to perform a lay-up shot and thus was

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### Northeastern Beats Icemen

#### Institutors Barely Edged 5-4 In Flashing Struggle

Showing a distinct improvement in all departments, the Institute icemen were edged, 5-4, last Tuesday night by Northeastern, in a hard-fought, flashing game. Although this marks the second defeat of the icemen, their performance against Northeastern indicates success for the rest of the season.

The winning goal was scored in the last stanza by Chipman, of Northeastern. Northeastern ran up a three to nothing advantage in the first period, but then The Engineers took a grip and evened the score to four-all by the end of the second. After Northeastern's final tally in the last period, the game fought itself to a draw for the remaining eighteen minutes.

#### The statistics:

Chipman, Iw. . . . .rw. Drury (Ganoog, c. . . . .e. Neal (Boyard, fw. . . . .lw. Gregory (Cunningham, rd. . . . .ld. Hilliker (Griffin, ld. . . . .rd. Safe (Hebron, g. . . . .g. Caruick (Score—Northeastern 5, M.I.T. 4. Northeastern alternates—Bracken, McCarthy, Eckert, Urbanik, Decker, Ross, Munday, Johnson, Melnis. M.I.T. alternates—Pickard, Danforth, Blanchard, Browning, Langs, Grace, Waller. Referees—Robertson and Harrington. Time—20 minute periods.

awarded a free shot which resulted in another point for Tech. The playing continued very closely contested and Harvard scored alternately one field goal to every two field goals on the part of our team. At one point in the middle of the second half Harvard led by a score of 16 to 15. However our team quickly came back and scored seven consecutive points. At this point the slightly disheartened Harvard team called a "time out".

#### Crowd Goes Wild

The stands, which were filled with cheering students, went wild and the chant "Our team is red hot" arose from the many Tech supporters. The rest of the game was very closely fought as Harvard gave all they had in attempt to put the game out of the fire. However as the final gun sounded the score remained Technology 29; Harvard 24.

## Sports Comment

An unparalleled sensation in more ways than one was the basketball game last Tuesday. Primarily, of course, there was the heart-warming feat of trouncing Harvard by sheer superiority of playing clear through the game.

The way in which the Tech hoopsters easily ran up ten points in the first few minutes of the game was a revelation, and a welcome one at that. And even though the team slackened that furious pace, it had a clear margin of superiority at almost all times, particularly in the pinches.

The reason for slackening the pace was not very mysterious when the statistics show that with two exceptions the same men played the entire game, and it was a fast and furious game. Not only fast and furious but pretty doggone rough in addition. From the number and population of the pile-ups on the floor, the game was often more like football than basketball. Still there was not a single foul called on Tech in the last half, and very few personal fouls called on either team during the entire game. Just good, clean, hard basketball.

With the exception of a spell in the middle of the first half, the Tech men handled the ball smoothly, and deceptively; and made the most of their scoring opportunities. The Harvard boys tossed the ball around well, also; but when they got it down in scoring territory, they couldn't seem to make efficient use of it, mostly because of Tech's livewire defensive work.

This weekend marks the opening of the winter season for two more sports, two of the more ill-fated sports at the Institute. The swimming team has its first meet Saturday with Worcester Polytech at Worcester, while the wrestlers open the same day with Brooklyn College at Brooklyn.

The Beaver Key squash touney is coming along slowly — too slowly, after the enthusiasm shown for the football. In fact, there are four teams, three of the fraternity, which have not yet played even the first round, while most of the others are in the third round and one even in the semi-final round robin. Those four teams are holding up the entire works. If they can't get together soon, two of them at least should be considered as defaulting entrants, and indications point that they will be so considered.

## Beaver Key Squash Matches Near End

### Kappa Sigma, Crafts Reach Round Robin, Waiting For Others

With only two vacancies left in the third round, the Beaver Key Squash Tournament is rapidly nearing its close. Kappa Sigma and Crafts dorm teams have already reached the round robin bracket and are waiting for the others to finish off their preliminary matches before continuing with the final games.

#### Four Teams in Danger of Default

According to William Taylor, '40, manager of the tournament, four teams who haven't as yet reported any scores will be defaulted unless the matches are played off this weekend. The teams behind are Delta Upsilon and Phi Kappa Sigma, and Walcott and Munroe.

Practically two weeks behind schedule, the tournament is slated to be finished just before Christmas vacation. Last year the meet was not held until the squash season was nearly over, and this year it is planned so that the matches can be played while enthusiasm for the sport is at its height.

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111 SUMMER ST. BOSTON

## Crew Schedule

(Continued from Page 1)

The Henley Cup Races, for which the Wright Cup will be awarded, is scheduled to be held on the Charles May 20. The meet is only open to 150 lb. crews, and the winner of this race is considered to be the best "150" in the East.

The schedule is as follows:  
April 22:—Rowe Cup: Harvard, Rutgers, M.I.T.—at Cambridge.  
April 29:—Cornell, Syracuse, M.I.T.—at Ithaca, N. Y.  
May 6:—Compton Cup: Princeton, Harvard, Syracuse, M.I.T.—at Cambridge.  
May 13:—Yale, Syracuse, M.I.T.—at Derby, Conn.  
May 20:—Wright Cup: 150 lb. Regatta at Cambridge.

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Parkas in fawn, natural and navy	\$7.95	Ski Mitts in navy, fawn or natural	\$1.95 and \$2.45
Jackets in navy, sand, fawn and natural—	\$5.95, \$7.95, \$10.95 and \$15.95	Shoe Ankle Stockings	75c, \$1.50 and \$3.00
Gabardine Pants in navy	\$5.95 and \$7.95. In navy, gray or brown	Three-Quarter Length Hose in navy or white	\$1.00, \$2.50, \$3.00 and \$5.00
Gabardine Caps in navy, fawn, white and natural	\$1.95	Gaiters in navy and white	\$2.95 and \$5.00
Gabardine Caps in navy, gray or brown	\$2.50	Ski Carriers exclusive with Jordan's in Boston	\$3.95
		Duffle Bags	\$1.95 and \$3.95
		Snow Shields	\$1.00

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# CALENDAR

## FRIDAY, DECEMBER 9

Varsity Basketball with New Hampshire at Durham.  
Freshman Basketball with New Hampshire at Durham.

## SATURDAY, DECEMBER 10

12:00 Noon Varsity Squash with Wesleyan on Tech Courts.  
Varsity Wrestling with Brooklyn College at Brooklyn.  
Varsity Swimming with Worcester Polytech at Worcester.  
1:30 P.M. Chess Club Meeting—East Lounge.  
8:30 P.M. Refugee Aid Dance—Walker Main Hall.

## SUNDAY, DECEMBER 11

2:00 P.M. Menorah Society Meeting—North Hall.  
3:30 P.M. Glee Club Concert—Saint Paul Church, Brookline.  
4:00 P.M. Society of Arts Lecture—Room 10-250.

## MONDAY, DECEMBER 12

12:00 Noon Faculty Club Luncheon Meeting—Dutch Room, Graduate House.  
6:00 P.M. Dormitory Bull Session Dinner—Faculty Dining Room, and North Hall.  
6:00 P.M. Superintendent's Dinner—Silver Room.

### Robberies

(Continued from Page 1)

the front door was forced open and overcoats valued at \$80 were stolen from a hall closet. An attempt was also made, according to investigators, to force the lock at Sigma Chi on the same night.

#### Dormitory Victims

Victims of Thursday morning's raid on the dormitories are Bernard F. Greenberg, '40, who lost \$30 cash in a wallet taken from his trousers pocket, and Samuel Sensiper, '39, from whom \$25 in cash was taken with a wallet from his bureau. Sensiper's emptied wallet was found yesterday lying in the street near the B. & S. Laundry. Charles Friedman, '39, was the third victim, losing \$10 cash, while Zachary P. Abuza, '41, was robbed of a \$75 bursar's account, several meal tickets, and miscellaneous credentials.

#### All Doors Unlocked

The victims, in exclusive interviews with The Tech last night, stated that none of their doors had been locked, and that all had gone to bed at about 2 A.M. As in the case of the fraternity plundering, all rooms were left in a neat condition, with clothes once more neatly folded.

Amateur sleuths last night agreed that evidence available indicated that all four crimes had been committed by the same person. At least two were definitely engineered by the same party, since a wallet taken from the Phi Sigma Kappa raid was left at the Sigma Chi doorstep.

Observers also agreed that the criminal is probably connected in some manner with the Institute, since he showed familiarity with both fraternity houses and Dormitories.

### Compton Lecture

(Continued from Page 1)

Problems concerning cosmic rays can be divided into three categories, said Compton yesterday. In the first place, what are the cosmic rays; in the second place, where do they come from; in the third place, what can they do?

#### Radium First Thought Ray Cause

Cosmic rays were thought to be due to the effects of radioactive elements. When air was first found to be ionized to a measurable extent when not under exposure to X-rays, he said. This opinion was held until, in 1912, a Belgian physicist scaled the Eiffel Tower in an attempt to get far enough away from radioactive elements in the earth's surface to decrease their effect by a calculable amount. He found with the electro-scope he carried with him, that the decrease in ionization of the air was smaller than calculated; he therefore concluded that there must be some other cause of ionization of the air than radium radiation.

#### Rays Are Electrical

Several conclusions were reached from the results of these observations, among which were the following. The rays follow magnetic lines rather than geographical and are therefore evidently electrical in character. "The Aurora and the cosmic rays are affected by the earth in the same manner" which may mean that the two are similar in character. In the northern hemisphere, more rays were found to come from the west than from the east, which would indicate from the polarity of the earth when created as a dipole magnet, that there were more positively

### Railroads, Airlines, Bus Companies' Men at TCA

Representatives of the various railroads, airlines, and bus companies which have terminals in Boston will be at the T.C.A. office from 12:15 to 1:45 P.M. every day during the period from Tuesday, December 13th to Wednesday, December 21st. They will take care of all particulars regarding student transportation during Christmas vacation.

The T.C.A. also announced that the Driver-Passenger files are open to those students who wish to return home by the cooperative automobile method.

### Compton Interview

(Continued from Page 1)

not yet been incorporated in a machine of usable efficiency. Of these examples, the first is still in the laboratory stage, and the second is actually in evidence but without any large use at present, while the first is one that is now being seriously considered as a substitution for usual filament lighting.

Compton was optimistic concerning the present power sources, stating he believed that science would advance rapidly enough to find other means of converting energy so that future generations need fear no power shortages.

charged particles than negative in the rays. Relative positions of the Milky Way were found to affect the intensity of the rays. From measurements taken at night and during solar eclipses, which did not vary from those taken during the day, it has been established that the rays do not issue from the sun. Compton concluded that the rays come from either within the Milky Way galaxy of which the earth is a member, or from outside the galaxies. Methods have been found to determine which is the source but measurements have not yet been completed.

Of the three theories concerning the possible source of the rays, whether by nuclear processes, electrostatic generators, or from primeval particles formed at the origin of the earth, Compton maintained that the last was the most probable.

### German Ex-Chancellor Will Speak To Faculty

Dr. Heinrich Bruening, chancellor of Germany from 1930 to 1932, will speak at Technology next Monday.

"The Present Economic Struggle in Europe" is to be the topic of his speech at a luncheon meeting of the Faculty Club, set for noon in the Dutch Room of the Graduate House.

Dr. Bruening was active head of the German government during the critical period preceding the National Socialist coup. He had a distinguished war record on the Western Front, and after the war took part in the development of the German Republic.

### Dorm Dance

(Continued from Page 1)

Santa, who is going to be there, wouldn't be the only person giving away things.

Agenda, dormitory Sophomore Society, has required that all dormitory freshmen have dates for that night. Freshmen will not be required to attend the Christmas Dance, but they are urged to do so.

### The First Church of Christ, Scientist

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Sunday Services 10:45 a. m. and 7:30 p. m.; Sunday School 10:45 a. m.; Wednesday evening meetings at 7:30, which include testimonies of Christian Science healing. Reading Rooms — Free to the Public, 311 Washington St., opp. Milk St., entrance also at 24 Province St., 420 Boylston Street, Berkeley Building, 2nd Floor, 60 Norway St., cor. Mass. Ave. Authorized and approved literature on Christian Science may be read, borrowed or purchased.



### SPECIAL STUDENT PLANE TO CHICAGO

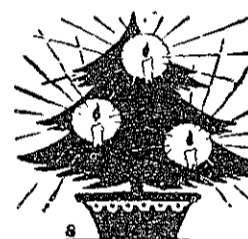
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